



International
Institute of Information
Technology Bangalore

NEW
PROGRAMMES

NEW
CAMPUS

NEW
INITIATIVES

ANNUAL REPORT 2023-24

FOSTERING GROWTH

Embracing Opportunities to Serve the Nation



Foreword from the Director



Prof Debabrata Das
Director, IIIT-B

It is with great pride and immense pleasure that we present the Annual Report 2023-2024 of IIIT-Bangalore. This comprehensive document is the culmination of diligent efforts, meticulously capturing the events and milestones of the above academic year. The Annual Report serves as an invaluable record, chronicling the institute's endeavours across the broad spectrum of Academics, Research, Innovation, Sports, Extracurricular Activities, and every facet of campus life. It stands as a testament to the relentless pursuit of excellence by our vibrant community.

This year's edition is particularly special as it is themed around "Growth," commemorating our journey past the significant milestone of 25 years. As we reflect on our accomplishments, this edition focuses on the data and narratives that will propel IIIT-B onto a dynamic growth trajectory. In alignment with the guiding principles of NEP 2020, this report highlights our future aspirations in Academics, Research, Innovation, and Infrastructure. It showcases our commitment to fostering an environment that nurtures intellectual curiosity and ground-breaking discoveries.

For the faculty, students, and staff of IIIT-B, this Annual Report is a mirror reflecting our collective performance across all fronts. It offers a moment for introspection, celebration, and motivation to push the boundaries of what we can achieve. For our stakeholders and the broader community, this document showcases our strengths and underscores the impact we make through our endeavours. I extend my best wishes to all readers and hope this report inspires continued excellence and innovation.

The aim of all-round growth in all spheres at IIIT-B epitomizes what Bharath Ratna Dr. B.R. Ambedkar profoundly stated about growth: "Cultivation of mind should be the ultimate aim of human existence." This guiding principle underscores our commitment to fostering intellectual, social, and emotional development within our community, ensuring that we not only achieve academic excellence but also contribute meaningfully to society.

Happy reading!



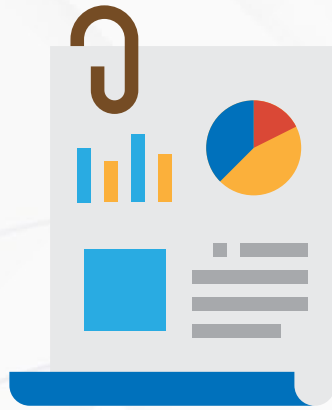
INDEX

1	Director's Report	1
2	IIIT-Bangalore Anthem	7
3	Governing Body	
	Governing Body Members	11
	Governing Body Meetings	12
4	Senate	
	Senate Members	17
	Senate Meetings	18
5	Convocation	21
6	NIRF Ranking	25
7	New Academic Programmes	27
8	Dean's List	29
9	Events & Happenings	
	Events	35
	Sports Activities	49
	Samvaad Weekly Talk Series	51
	IIIT-B's Achievements	52
	Faculty Achievements	54
	Guest Visitors	56
10	IIIT-B MoUs	61
11	Financials	65
12	Infrastructure	69

13	People	
	Faculty Members	73
	IIIT-Bangalore's New Departmental Heads	77
	Domain-wise Faculty Members	78
	Key Officials	79
14	Appointments & Adieu	83
15	Research Projects	85
16	Publications	
	Conference Publications	97
	Journals & Magazine Articles	111
	Patents Published	116
	Patents Granted	117
	Book Chapters	118
	Edited Books	119
17	Student Activities	
	Student Activities Council	121
	Student Activities	122
	Student Achievements	125
	Student Admissions	129
	Placement Statistics	130
18	We miss you	137
19	IIIT-B in the news	139



DIRECTOR'S REPORT





Prof Debabrata Das
Director, IIT-Bombay



The 24th Convocation Director's Report of IIT-Bombay is noteworthy for its detailed celebration of academic excellence, innovation, and community spirit. The report highlights the remarkable achievements of the Class of 2024, their parents' support, and the institution's significant milestones, such as the Silver Jubilee celebration and a record number of graduates. The report also showcases the institution's commitment to research, sustainability, and global partnerships, along with the exceptional accomplishments of students and faculty, emphasizing IIT-B's role as a beacon of knowledge and innovation.

The 24th Convocation marked a significant landmark as the 4,579th student of IIT-B strides towards graduation. This year's graduating class represents the largest cohort in our institution's history so far, comprising 343 individuals poised to receive their well-earned degrees. Among them, we celebrate the graduation of 121 students from the Integrated Master of Technology program, 174 from the Master of Technology program, 14 from the Master of Science in Digital Society program, 23 from the Master of Science by Research program, and 11 dedicated PhD scholars.

With immense joy, I present the extraordinary accomplishments of the Class of 2024, who excelled in hackathons and garnered numerous accolades.

Daksh Agarwal of i-MTech secured top 4th rank in India for the DNS Project, a joint initiative by NASSCOM and ICANN.

Mayank Kabra, also an i-MTech student, authored 14 papers and worked on 2 patents, besides, he founded a startup, Chipcron Pvt. Ltd., showcasing his early entrepreneurial spirit.

Our MS student Aparna M was selected as a senior ambassador in the Sustainability Ambassadors Global Exchange (SAGE) program, led by the Nordic Center in Denmark. She will join a global network for a year-long training program focusing on sustainability initiatives.

Apurva Kulkarni received the prestigious AWSAR Award (2022) from the Department of Science and Technology (DST), Government of India.

Jayati Deshmukh developed the “Computational Transcendence” model of responsible agency, with publications in AAMAS, PAAMS, Frontiers in Robotics and AI, and Complex Systems. She won the Best Paper Award at SocInfo 2020 and Best Presentation at SUMO 2022.

Our PhD student, Bindu G Gowda along with Saket Gurjar, Aamod B K, Varad Bharadiya and Prof. Madhav Rao received 3rd Best Poster Award of the IEEE Computer Society Annual Symposium on VLSI (ISVLSI) at Knoxville, Tennessee, USA.

Film Division, a new addition to Parvaaz - our students' theatre club, made waves by winning the 1st prize in the student category at JUSFF '24 (Jain University Short Film Festival). They also excelled in competitions at Elan & nVision '24 (IIT Hyderabad), Waves '23 (BITS Goa), and Meraz '24 (IIT Bhilai).

IIIT-B students showcased their sporting skills in various championships nationwide. Notably, at the “Arena” sports fest in BITS Hyderabad, our Table Tennis team secured the runner-up position, while Mohak (M.Tech student) earned the bronze medal in the 3km run.

In line with our institute's esteemed tradition and reputation, our faculty members have continued to inspire the entire campus community through their exceptional contributions and numerous accolades. Though their list of honors is extensive, due to space and time constraints, I will highlight only a few.

On Teacher's Day, Prof. Dinesh Babu Jayagopi received the prestigious National Teachers Award from the Ministry of Education, Government of India. He was one of 13 distinguished professors nationwide to be honored in higher education. The Honorable President of India, Smt. Droupadi Murmu, presented him with a medal, certificate, and cash prize.

Prof. Amit Prakash received the Marichi Award from Shri Ramesh Pokhriyal, former Union Education Minister in New Delhi. His work on accessible education for the visually impaired has been recognized at the National level and awarded by the Indrapuram Group of Institutions.

Prof. Jaya Sreevalsan Nair has been awarded the 2024 practitioner grant for geospatial Work by the Women in GIS (WiGIS) Awards and Scholarship program.

Prof. Nanditha Rao was awarded the 2023-2024 Fulbright-Nehru Academic and Professional Excellence Fellowship.

Prof. Meenakshi D'Souza has been elected as the President of ACM India. Her contributions as the former Secretary cum Treasurer include several activities of ACM India that span education, research and DEI initiatives.



I am humbled for being selected as the Chairman of IEEE India Council for the second consecutive year 2024.

Research & Innovation: IIIT-B continues to stand as a beacon of innovation, with a commitment to pushing the boundaries of knowledge and encouraging collaboration across disciplines. At the heart of our research endeavors lies the multi-disciplinary centers in which the faculty and students converge from diverse backgrounds, ranging from healthcare to machine intelligence, here I would like to highlight a few of our achievements in research and innovation

IIIT-Bangalore has clinched a spot in the prestigious Top 10 Indian Institutes for its groundbreaking work in Data Science and AI studies in 2024. This accolade, bestowed upon us by Emerging's Digital Leaders Survey, highlights our dedication to excellence on a global platform.

A collaboration between our E-Health Research Centre and NIMHANS, with IIIT-B as technical partner, has led to a significant achievement, The Tele-MANAS project. This project is an initiative of the Ministry of Health, Government of India, aimed at delivering tele-

mental health services to the people in remote areas, has received over 10 lakh calls. This milestone is a testament to our commitment to empowering minds and changing lives.

Our efforts in Digital Public Infrastructure (DPI) and governance have garnered global acclaim. I am happy to announce that MOSIP, our Modular Open Source Identity Platform which is an independent project under the IIIT-Bangalore, and developed by IIIT-B similar to AADHAR, has received the WSIS champion award in the e-governance category at the World Summit on Information Society in Geneva, held during May 2024. The award is recognized by the International Telecommunication Union (ITU) for its outstanding contribution towards strengthening the implementation of the World Summit on Information Society (WSIS) Outcomes. IIIT-B's MOSIP is now in 20 countries as digital identity platform.

In February, Philippines was awarded the Future of Government Award for 2023, for its Open Source Adaptation of MOSIP. The award was given UNDP (United Nations Development Programme) public digital and AWS institute.

IIIT-B's Achievements in Sustainability: Amid our steady growth, sustainability remains a core principle at IIIT-B. Our dedication to sustainable living has not gone unnoticed. This year, we were recognized by a Silver medal in ELCITA's Sustainability Awards.

Adding to our accolades, IIIT-B was honored with the esteemed 'Green University Award 2023' at the 7th NYC Green School Conference in New York on September 15, 2023 on the sidelines of the 78th United Nations General Assembly. Mr. Udaya Hegde, an alumnus and Governing Body Member accepted the award on our behalf.

Significant growth of IIIT-B: Over the past year, IIIT-Bangalore set out several new initiatives and milestones, marking a period of significant growth and innovation for the institute.

I am pleased to announce that the IIIT-B East campus will be established within the next year, with land secured in the outskirts of Electronic City Phase II which is around 1.9 km aerial distance from this campus.

As IIIT-B embarks on its 26th year, we are set on a growth trajectory to become a multidisciplinary institution, aligning with the vision of NEP 2020. We have already started implementing our strategic roadmap, with AICTE's approval, we have launched the first B. Tech programs in Computer Science, Electronics and Communication Engineering, and Data Science & AI slated to start from the upcoming academic year. We extend our gratitude to the Government of India, the Government of Karnataka, and our esteemed Governing Body and Senate members for guiding us on this promising path.

IIIT-Bangalore has launched Executive Post Graduate Programme in Digital Product Design and Management that equips students with a 360° view of the software product life cycle.

IIIT-B COMET Foundation inaugurated a new lab which will serve as a training room to upskill students and professionals on various aspects of Advanced Communication Systems (ACS).

At IIIT-B, a significant move towards technological advancement was made with the inauguration of a state-of-the-art VLSI laboratory. The new VLSI lab is equipped with advanced hardware and software tools essential for designing, prototyping and testing integrated circuits at various complexity levels.

Starting this year, we are introducing Heads of Departments for our different academic branches, following are the professors who serve as the first HoDs for the respective programmes Prof. Meenakshi D'Souza for Computer Science and Engineering, Prof. Madhav Rao for Electronics and Communication Engineering, Prof. Dinesh Babu Jayagopi for Data Science & Artificial Intelligence and Prof. Amit Prakash for Digital Humanities and Societal Systems.

I am happy to announce a strategic partnership with the Software Development Institute (SDI) of the Indian Air Force (IAF). This collaboration aims to drive research and development activities, encouraging the creation of innovative products and processes.

IIIT-B and Ekstep Foundation signed an MOU to establish the Centre for Open Societal Systems. The center is aimed to address the global and domestic challenges by promoting and utilising open-source digital building blocks that drive societal transformation.

IIIT-B's Overall Accomplishments: IIIT-Bangalore has established itself as a hub of academic excellence and innovative research, consistently pushing the boundaries of technology and science. I will highlight the few of the IIIT-Bangalore Achievements over the year.

The IIIT-B Innovation Centre plays a crucial role in encouraging deep tech startups. Presently, we nurture over 40 startups through programs like ORBIT and Health Acceleration. These startups are primarily focused on Healthcare, 5G, AI and Augmented Reality/Virtual Reality (AR-VR) domains. Our Incubation Centre provides funding via MEITY, the Startup India Seed Fund and IDEX, empowering startups to innovate and succeed.

Our research endeavors in the previous years have materialized into tangible achievements with over 1620 peer-reviewed journal and conference papers, 34 published patents and more than 100 book chapters, edited books and books authored by our esteemed faculty, research scholars, and students.

IIIT-B offers online Continuing Professional Education (CPE) courses in key areas like Data Science, Software Development, Cyber Security and AI & ML. So far, 28,082 people have graduated from these programmes. This year, we have got 5,446 new learners enrolled in our CPE programmes.

Research is a key focus at IIIT-B, and I'm delighted to share that we currently have 49 on-going projects across various centers. Among them, 9 are from the Government of India, 7 from the Government of Karnataka, 8 International projects, 19 are industry collaborations, and we've also received 6 CSR grants.

Internship and Placements: In light of the prevailing market conditions, I am happy to report on the remarkably positive outcome of our placement season. Out of the total 546 offers, we had 311 internship offers and 235 full-time offers. Among a cohort of approximately 343 students across all programs, the majority of the 2024 graduates secured exceptional industry internships, successfully completing their terms. Furthermore, we had the pleasure of accommodating some of the graduates within our own centers such as EHRC, MOSIP, and CTRI-DG. It is gratifying to note that some of our graduates have made significant contributions to IIIT-B's research through their thesis work in their final semester. Additionally, few of our students pursued international internships or research opportunities in Austria, Japan, France and Canada.



2

IIIT-BANGALORE ANTHEM





JNAANAMUTTAMAM



The unveiling of the IIIIT-Bangalore anthem during the valedictory function on November 3, 2024, marked a significant moment of pride as the institution celebrated its 25th anniversary. An anthem is crucial for an educational institution, creating a sense of identity and belonging among students, faculty, staff and alumni, while also promoting unity and pride during official events. The IIIIT-Bangalore anthem, inspired by the guiding principle “ ज्ञानमुत्तमम् ” (Knowledge is supreme) and embodying the pillars of Education, Research, Innovation and Entrepreneurship, was composed in Sanskrit by Vidhushi Smt. Dharmashree Iyengar. This anthem not only honors the institution’s legacy but also serves as a unifying symbol, instilling pride and shared values within the campus community. The anthem was officially unveiled by Mr. Kris Gopalakrishnan, Chairman of IIIIT-Bangalore and Prof. Debabrata Das, Director, IIIIT-Bangalore.

Kannada

ಅನ್ವಿಷ್ಯತೇ ಕ್ಷಣೇ ಕ್ಷಣೇ ನಿತ್ಯನೂತನಂ
ನವನವೀನ ವಿಭಿನ್ನರೂಪ ಜ್ಞಾನಮುತ್ತಮಮ್
ಜ್ಞಾನಮುತ್ತಮಮ್ ಸುಜ್ಞಾನಮುತ್ತಮಮ್

ಅಪಾರೇ ಜ್ಞಾನಸಾಗರೇ
ಪ್ರಾಪ್ಯತೇ ಪ್ರವರ್ಧತೇ
ಪ್ರಕಾಶತೇ ಜ್ಞಾನಮುತ್ತಮಮ್
ಜ್ಞಾನಮುತ್ತಮಮ್ ವಿಜ್ಞಾನಮುತ್ತಮಮ್

ತಂತ್ರಜ್ಞಾನ ನಾಯಕೈ
ಪ್ರಸಾರ್ಯತೇ ಅವಾಪ್ಯತೇ
ವಿರಾಜತೇ ಜ್ಞಾನಮುತ್ತಮಮ್
ಜ್ಞಾನಮುತ್ತಮಮ್ ತಂತ್ರಜ್ಞಾನಮುತ್ತಮಮ್

ಜಯತು ಜ್ಞಾನಮುತ್ತಮಮ್
ಸ್ವತಂತ್ರಜ್ಞಾನಮುತ್ತಮಮ್
ಸದಾ ಜಗತಿ ವಿಜಯತೇ ಜ್ಞಾನಮುತ್ತಮಮ್
ವಿಜ್ಞಾನಮುತ್ತಮಮ್

Meaning

Seek, moment by moment, the eternally new With ever-fresh and diverse forms, knowledge is supreme Good knowledge supreme

In the boundless ocean of knowledge, Supreme knowledge is attained It grows and shines, knowledge is supreme Knowledge is supreme, Scientific knowledge is supreme

The leaders of technology obtain and spread the knowledge It glows, knowledge is supreme Knowledge is supreme, Technical knowledge is supreme

Hail the supreme knowledge, The independent knowledge is supreme It always triumphs in the world, knowledge is supreme Scientific knowledge is supreme

Sanskrit

ಅನ್ವಿಷ್ಯತೇ ಕ್ಷಣೇ ಕ್ಷಣೇ ನಿತ್ಯನೂತನಮ್
ನವನವೀನ ವಭಿರ್ನಿರೂಪಾ
ಜ್ಞಾನಮುತ್ತಮಂ ಸುಜ್ಞಾನಮುತ್ತಮಮ್

ಅಪಾರೆ ಜ್ಞಾನಸಾಗರೇ
ಪ್ರಾಪ್ಯತೇ ಪ್ರವರ್ಧತೇ
ಪ್ರಕಾಶತೇ ಜ್ಞಾನಮುತ್ತಮಮ್
ಜ್ಞಾನಮುತ್ತಮಂ ವಿಜ್ಞಾನಮುತ್ತಮಮ್

ತನ್ತ್ರಜ್ಞಾನ ನಾಯಕೈಃ
ಪ್ರಸಾರ್ಯತೇ ಅವಾಪ್ಯತೇ
ವಿರಾಜತೇ ಜ್ಞಾನಮುತ್ತಮಮ್
ಜ್ಞಾನಮುತ್ತಮಂ ತನ್ತ್ರಜ್ಞಾನಮುತ್ತಮಮ್

ಜಯತು ಜ್ಞಾನಮುತ್ತಮಮ್
ಸ್ವತನ್ತ್ರಜ್ಞಾನಮುತ್ತಮಮ್
ಸದಾ ಜಗತಿ ವಿಜಯತೇ
ಜ್ಞಾನಮುತ್ತಮಂ ವಿಜ್ಞಾನಮುತ್ತಮಮ್



Anvishyate kshane kshane nityanootanam
Navanaveena vibhinnaroopa
Jnaanamuttamam Sujnaanamuttamam

Anvishyate kshane kshane nityanootanam

Apaare jnaanasaagare
Praapyate Pravardhate
Prakashate jnaanamuttamam
jnaanamuttamam vijnaanamuttamam

Anvishyate kshane kshane nityanootanam

Tantrajnaana naayakaihi
Prasaaryate Avaapyate
Virajate jnaanamuttamam
Jnaanamuttamam tantrajnaanamuttamam

Anvishyate kshane kshane nityanootanam

Jayatu jnaanamuttamam
Svatantrajnaanamuttamam
Sadaa jagati vijayate
Jnaanamuttamam vijnaanamuttamam

Anvishyate kshane kshane nityanootanam

Scan the QR to watch the video



3

GOVERNING BODY



GOVERNING BODY MEMBERS



Mr. S Gopalakrishnan
Chairman, Governing Body,
Co-Founder, Infosys



Prof Debabrata Das
Director,
IIIT-Bangalore



Mr. Giridhar Aramane, IAS
Secretary MoD,
Government of India



Mr. L K Atheeque, IAS
ACS, Finance Department
Government of Karnataka



Dr. Ekroop Caur, IAS
Secretary, ITBT and S&T
Government of Karnataka



Mr. B V Naidu
Chairman,
Sagitaur Ventures Pvt. Ltd.



Prof. Rishikesh T Krishnan
Director,
Indian Institute Of Management - Bangalore



**Mr. R Chandrashekhar, IAS
(Retd.)**
Former President, NASSCOM



Mr. Naresh Shah
Former President, India R&D
Hewlett Packard Enterprise



Mr. T K Srirang
Senior General Manager,
Head Human Resource,
ICICI Bank



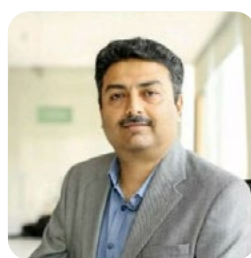
Mr. Sanjeev Malhotra
CEO, NASSCOM Centre of
Excellence for IoT and AI



Mr. Shaji Mathew
Group Head of Human Resources,
Infosys



Ms. Kishore Ramisetty
Vice President,
Data Platforms Group



Mr. Khadim Batti
Co-founder & Chief Executive Officer,
Whatfix



Cmde SR Sridhar (Retd.)
Registrar, IIIT-Bangalore -
Secretary to the Board
and Outreach Head



September 06, 2023

91st Meeting of the Governing Body

1. Confirmation of the Minutes of 90th Governing Body meeting held on July 02,2023
2. Mr. BV Naidu chaired the Governing Body meeting welcomed the members. He later directed the Registrar to proceed with the meeting as per the agenda.
3. The meeting congratulated Prof. Dinesh Babu Jaygopi who received the Teachers' Day Award 2023 from President of India on 5th September 2023.
4. Mr. Uday Hegde member of Governing Body from February 05, 2020 onwards in 'Alumni Member' category completed his tenure. Mr. Khadim Batti, alumnus of IIIT-B, has consented to be a member of the Governing Body vacated by Uday Hegde. The Governing Body approved the membership of Mr. Khadim Bhatti in the category of 'Alumni Member' and directed Registrar to place it in the AGM for approval of the General Body.
5. Mr. I S N Prasad, IAS (Retd) who was serving as a Governing Body member since February 25, 2013 completed the tenure. In his place, Mr. L K Atheeq, IAS, ACS, Finance Department, Government of Karnataka consented to be a member of the Governing Body in the category of 'Individual member' drawn from Government of Karnataka.
6. Dr. Ramana Reddy, IAS (Retd) who was a Governing Body member since August 4 ,2020 completed his tenure. In his place, Dr. Ekroop Caur, IAS, Secretary, ITBT and S&T, Government of Karnataka consented to be a member of the Governing Body in the category of 'Individual member' drawn from Government of Karnataka.
7. The Governing Body approved the membership of Mr. L K Atheeq, IAS and Dr. Ekroop Caur, IAS in the category of 'Individual member drawn from Government of Karnataka' and directed Registrar to place it in the AGM for approval of the General Body.
8. Mr. Gururaj Deshpande who was a member of the Governing Body from September 26, 2018 under the category of Patron Member completed the tenure. In his place Mr. Shaji Mathew, Group Head of Human Resources, Infosys was nominated.
9. The Governing Body approved the membership of Mr. Shaji Mathew in the category of "Patron Member" and directed Registrar to place it in the AGM for approval of the General Body.
10. The term of the following Patron members who joined Governing Body on February 08,2017 (renewed on February 08,2020) was expiring:
 - Mr. Naresh Shah
 - Mr. T K Srirang
11. It was recommended that Mr. Naresh Shah, be nominated for one more term in the category of 'Individual member drawn from Industry' and also recommended that Mr. T K Srirang, be nominated for one more term in the category of 'Patron Member'.
12. Both of them has consented to continue as members of the Governing Body. The Governing Body approved the renewal of their membership under the above mentioned categories and directed Registrar to place it in the AGM for approval of the General Body.

13. The Governing Body has recommended the appointment of M/s Guru & Jana, Chartered Accountants as Statutory Auditors for the FY 2023-24 with a fees of ₹. 4,00,000/- per annum plus applicable taxes and out of pocket expenses for approval of the AGM.
14. The Governing Body approved the appointment of M/s MNH Associates, Chartered Accountants, Bangalore as the Internal Auditors of the Institutes for the FY 2023-24 with a fees of ₹. 2,00,000 for each half yearly audit plus Applicable taxes and out of pocket expenses.

December 6, 2023

92nd Meeting of the Governing Body

1. Confirmation of the Minutes of 91st Governing Body meeting held on September 06, 2023
2. Director, IIIT-Bangalore briefed the Governing Body about the growth plan of the institute on the following points:
 3. The curriculum review of M.Tech and i-MTech
 4. Feasibility of commencing B Tech programs in the thrust areas looking at present and future technology requirements.
 5. Comprehensive roadmap consisting of present and new programmes in line with the recommendations of NEP 2020 and aligned with:
 - Multi-disciplinary and inter-disciplinary elements
 - Gradual Increase of student strength to 3000+
 - Incorporate Multiple Entry / Multiple Exit options (ME-ME)
 - Existing programs curriculum review with respect to advent of new technologies
 6. Chairman and the board members emphasized the urgent need and justification for the purchase of land to meet the expansion of the Institute in line with NEP 2020 requirements.
 7. Chairman directed Registrar and CAO to ensure early resolution of all issues and take active steps for the purchase of said land with the provision of funds made available in the 89th Governing Body Meeting.
 8. Registrar briefed the Governing Body Members about the availability of 4 acres of land parcel near Electronic City Phase-2
 9. Registrar briefed the Governing Body about the availability of Industrial Building with land of size 11,233 Sq. Ft.
10. Whilst approving the purchase of above land parcels, the Governing Body suggested / approved the following: -
 - The Institute needs to create a detailed plan for developing facilities on the mentioned land parcels, aligning with its growth strategy.
 - Ensure compliance with necessary building bylaws and statutory requirements throughout the purchase and construction process.
 - Expedite the purchase process, ensuring thorough due diligence at each stage.
 - Prof. Debabrata Das, Director, IIIT-Bangalore, is authorized to sign documents with regard to purchase and registration of above land parcels/ property on behalf of IIIT-Bangalore.
11. The 34th Faculty Selection and Promotion Committee (FSPC) meeting was scheduled on 17th October 2023 for selection of 2 candidates for the post of Assistant Professor. Prof. G Venkatesh, Indian Institute of Technology Madras, was part of the committee as expert, was unable to be in the meeting due to his family member's sudden illness. Director in his capacity as the Chairman of the FSPC meeting nominated Prof V Ramasubramanian in his place as an emergency measure.
12. Director sought ratification of the above decision taken by the Chairman of the FSPC.
13. Governing Body ratified the above said nomination of Prof V Ramasubramanian in the FSPC in place of Prof G Venkatesh.

March 21, 2024

93rd Meeting of the Governing Body

1. Confirmation of the Minutes of 92nd Governing Body meeting held on December 6, 2023.
 2. The Registrar gave an update on the actions taken. The Governing Body took note of the actions taken.
 3. The Governing Body approved the following way ahead for the institute: -
 - a) Growth plan according to NEP 2020, for IIIT-B to remain as an autonomous university.
 - Growth plan made by duly constituted committees for 3000+ students, faculty, staff and class rooms, Labs, hostels etc.
 - As a first step, in the ensuing academic year B.Tech courses in CSE, ECE and Data Science & AI to be commenced after the requisite approvals from AICTE.
 - PG Diploma in Product design and Management to be commenced.
 - b) Update regarding the Purchase of Land from M/S Patel Engineering, Mumbai.
 - Despite continuous efforts to reach out to S S Patel Engineering, Mumbai nothing concrete was forthcoming. Another land parcel of about 3 acres & 4 Guntas in the vicinity of Phase-2 was under active consideration.
 - c) Purchase of 3.75 Acres land parcel.
 - Purchase of land in the vicinity of Electronic City
- Phase-2 off Shantipura Main Road was completed at a cost of ` . 66.25 crores (@ ` . 3900/ Sq. Ft) x 169,880 Sq. Ft. Land registration and associated processes were completed and Bhoomi Pooja was performed on 22nd January 2024.
4. The Annual Budget for 2024-25 as recommended by the Sub Committee of the Governing Body (Audit and Finance) was presented to the Governing Body members by the Chief Finance Officer (CFO). He gave a detailed presentation on the budget.
 5. Following were the observations of the Governing Body members: -
 - The Board appreciated the efforts of the Institute in maintaining a healthy financial status and performance.
 - Mr. R Chandrashekar IAS (Retd.) suggested that the institute could examine allocation of more funds from its own resources for Research funding, however Chairman observed that in view of expansion plan of the Institute & need of more funding for expansion, to continue the research activities in externally funded project support mode and also the on-going methodology of supporting faculty members.
 6. After due deliberations, the Governing Body Approved the Annual Budget 2024-25.



July 7, 2024

94th Meeting of the Governing Body

1. Confirmation of the minutes of 93rd Governing Body meeting held on March 21, 2024
2. Started with welcoming of the new Governing Body Members and Motion of Thanks to the Governing Body members exiting.
3. Consideration and recommendation of:
 - PhD Degree - 11 students
 - Master of Science by Research Degree - 23 students
 - Integrated M Tech Degree (B.Tech & M.Tech) - 121 students
 - M Tech Degree - 174 students
 - MSc (Digital Society) degree- 14 students
 - Scholarships and Medals
4. The Director informed the Governing Body that IIIT-B working as a unitary institution since its inception has to expand into a multi-department & multi-disciplinary university as per the NEP 2020 guidelines, and the IIIT-B Senate has recommended creating new departments at its April 17, 2024 meeting.
 - Department of Computer Science and Engineering (CSE)
 - Department of Electronics and Communication Engineering (ECE)
- NASSCOM had informed that Mr. K. S. Viswanathan retired on March 31, 2024, and nominated Mr. Sanjeev Malhotra to replace him on the Governing Body.
- The Governing Body unanimously approved Mr. Sanjeev Malhotra's nomination effective July 7, 2024.
 - Department of Data Science and Artificial Intelligence (DSAI)
 - Department of Digital Humanities and Societal Systems (DHSS)
5. The Director also informed the Governing Body that the following faculty members are appointed as Head of the Departments (HoDs) for a period of 3 years followed by a due selection process with effect from June 18, 2024.
 - Department of Computer Science and Engineering (CSE) – Prof Meenakshi D'Souza
 - Department of Electronics and Communication Engineering (ECE) – Prof Madhav Rao
 - Department of Data Science and Artificial Intelligence (DSAI) – Prof Dinesh Babu Jayagopi
 - Department of Digital Humanities and Societal Systems (DHSS) – Prof Amit Prakash



4

SENATE



SENATE MEMBERS



CHAIRMAN: Prof Debabrata Das

MEMBERS, EDUCATIONISTS OF REPUTE

1. Prof S S Prabhu
2. Dr. Roland Haas
3. Prof Kriti Ramamritham
4. Prof S Rajagopalan
5. Dr. Nachiket Mor
6. Mr. S Nagarajan (Senior Industry Technologist)

TEACHING MEMBERS

- | | |
|--|-------------------------------|
| 1. Prof R Chandrashekar, Dean (Academics) | 17. Prof Jyotsna Bapat |
| 2. Prof Shrisha Rao, Dean (Faculty) | 18. Prof V Sridhar |
| 3. Prof Srinath Srinivasa, Dean (R&D) | 19. Prof V Ramasubramanian |
| 4. Prof Manisha Kulkarni, Dean (Student Affairs) | 20. Prof Subir Kumar Roy |
| 5. Prof Meenakshi D'Souza (HoD, CSE) | 21. Prof B Thangaraju |
| 6. Prof Madhav Rao (HoD, ECE) | 22. Prof Ashish Choudhury |
| 7. Prof Dinesh Babu Jayagopi (HoD, DSAI) | 23. Prof Sachit Rao |
| 8. Prof Amit Prakash (HoD, DHSS) | 24. Prof Bidisha Chaudhuri |
| 9. Prof G Srinivasaraghavan | 25. Prof Sujit K Chakrabarti |
| 10. Prof R Badrinath | 26. Prof T K Srikanth |
| 11. Prof V N Muralidhara | 27. Prof Uttam Kumar |
| 12. Prof Jaya Sreevalsan Nair | 28. Prof Priyanka Das |
| 13. Prof B Ashok | 29. Prof Amit Chattopadhyay |
| 14. Prof Janaki Srinivasan | 30. Prof Shiva Kumar Malapaka |
| 15. Prof Preeti Mudliar | 31. Prof Nanditha Rao |
| 16. Prof Balaji Parthasarathy | 32. Prof. Pradeesha Ashok |

NON-TEACHING MEMBERS

1. Cmde S R Sridhar (Retd) – Registrar and Secretary to the Senate
2. Ms. Cynthia D'Mello – Staff Officer-Deans' office
3. Ms. Ramadevi S – Librarian
4. Mr M K Durai Murugan – Systems Manager

HIGHLIGHTS OF SENATE MEETINGS



October 11, 2023

93rd Senate Meeting

- Confirmation of the minutes of the 92nd meeting of Senate
- Consideration and Recommendation of the Student(s) for Award of Master of Science by Research Degree
- Revocation of termination letter and request for extension of Master of Science by Research student, Ms. Pragyan Mohapatra (MS2018009).
- Matters related to Research scholars - For consideration and approval of the Senate

December 13, 2023

94th Senate Meeting

- Confirmation of the minutes of the 93rd meeting of Senate
- Consideration and Recommendation of the Student(s) for Award of PhD Degree
- Consideration and Recommendation of the Student(s) for Award of Master of Science by Research Degree
- Matters pertaining/ related to Research scholars - For consideration and approval of the Senate
- Proposal for consideration and approval of the Senate - Splitting of the core course EG 211 Computer Architecture
- Credit Recognition for IIIT-B "PG Diploma in Digital Product Design and Management"
- Award of IIIT-B Executive Post-Graduate Programme (EPGP) certification as part of Executive M.Tech. Programme

February 7, 2024

95th Senate Meeting

- Confirmation of the minutes of the 94th meeting of Senate
- Consideration and Recommendation of the Student(s) for Award of PhD Degree
- Consideration and Recommendation of the Student(s) for Award of Master of Science by Research Degree
- Consideration and Approval of Research Scholars
- consideration and approval of Research scholars' request to transfer credits

April 17, 2024

96th Senate Meeting

- Confirmation of the minutes of the 95th meeting of Senate
- Consideration and Recommendation of the Student(s) for Award of Master of Science by Research Degree
- For consideration and approval of matters pertaining to research scholars
- Ph.D. Admissions for Academic Year 2024-25
- The Senate noted the update from the Senate sub-committee for CPE
- The Senate noted the Creation of Departmental Structure for Academic Administration
- Dean (Academics) requested the continuation of the 96th Senate Meeting on another date, with an extended single-point agenda to discuss and approve the curriculum for the new B.Tech. programme.

- The Chairman of the Senate approved the request to hold the special Senate meeting on May 9, 2024 as an extension of the 96th Senate Meeting.

May 9, 2024

96th Special Senate Meeting

- Approval of curriculum for B.Tech. Programme in the following areas:
 - B.Tech. in Computer Science and Engineering (CSE)
 - B.Tech. (Hons) in Computer Science and Engineering (CSE)
 - B.Tech. in Electronics and Communications Engineering (ESE)
 - B.Tech. (Hons) in Electronics and Communications Engineering (ECE)
 - B.Tech. in Data Science and Artificial Intelligence (DSAI)
 - B.Tech. (Hons) in Data Science and Artificial Intelligence (DSAI)

The Senate discussed the curriculum extensively and approved the curriculum of all the listed programmes.

June 19, 2024

97th Senate Meeting

- Confirmation of the minutes of the 96th meeting of Senate and the Special Senate meeting.
- Consideration and Recommendation of the Students for Award of PhD Degree
- Consideration and Recommendation of the Students for Award of Master of Science by Research Degree
- Consideration and Recommendation of the Students for Award of Master of Technology Degree

- Consideration and Recommendation of the Students for Award of MSc (Digital Society) Degree
- Consideration and Recommendation of the Students for Award of Master of Technology and Bachelor of Technology Degrees to Integrated M.Tech students
- Consideration and Recommendation of the students for awards / medals
- Consideration and approval of matters related to Research scholars

July 24, 2024

98th Senate Meeting

- Confirmation of the minutes of the 97th meeting of the Senate
- Updated B.Tech. Programme Curriculum for consideration and approval of the Senate
- Consideration and approval of the Departmental Internal Quality Assurance Committees (D-IQAC)
- Consideration and approval of changes to Integrated M.Tech. Programme Curriculum
- Consideration and approval of Changes to M.Tech. Programme Curriculum
- Consideration and approval of the new course proposals
- Consideration and approval of PGP-DPDM programme manual and curriculum structure document.
- Consideration and approval of Special admission to PhD programme
- Consideration and Recommendation of the Student(s) for Award of Master of Science by Research Degree
- Consideration and approval of transfer of course credits and thesis credits from MSR to PhD programme
- Consideration and approval of matters related to Research scholars for consideration and approval of the Senate.



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5 CONVOCATION





IIIT-BANGALORE CONFERRED
343 GRADUATES
WITH DEGREES DURING
24TH CONVOCATION

The 24th Convocation of IIIT-Bangalore was held with great splendor on July 7, 2024. The ceremony was held in the serene IIIT-B campus, surrounded by lush greenery, enhancing the grandeur of the event. This significant occasion brought together esteemed Chief Guest, Prof. Abhay Karandikar, Secretary, Department of Science & Technology, Government of India, and Former Director of IIT Kanpur, along with Guest of Honour, Ms. Debjani Ghosh, President of NASSCOM. The ceremony was presided over by the IIIT-Bangalore Governing Body Chairman, Padma Bhushan Mr. Kris Gopalakrishnan, and Prof. Debabrata Das, Director of IIIT-Bangalore. IIIT-Bangalore's faculty members, graduating students and their families gathered to celebrate the remarkable achievements of the Class of 2024 in an inspiring and beautiful setting.





GRADUATING CLASS OF 2024



Prof. Debabrata Das, Director of IIIT-Bangalore, welcomed everyone and presented the annual report. In his address he congratulated the students and said, “At this 24th Convocation, I am proud to recognize a cohort of students who has excelled in pioneering fields like Blockchain and AI large language models, VLSI, Communication, Machine Learning and Software Stacks. Though diverse in many ways, the batch of 2024 is united in their commitment to progress and mutual support embodying the spirit and ethos of IIIT-B. Graduates, as you step into your new careers, remember that you carry the spirit of IIIT-B with you. Embrace challenges with courage, pursue your passions with determination, and contribute to society with compassion. Congratulations to each one of you.”



Followed by the certificate distribution to all the graduating students. The Chief Guest, Prof. Abhay Karandikar, Secretary, Department of Science & Technology, Government of India & Former Director of IIT Kanpur, addressed the students, saying, “Engineering education in India has advanced significantly, with IIIT-Bangalore leading the way. The institute’s forward-thinking curriculum, including a unique master’s program in digital society, prepares graduates for rapid technological changes. With over 100 projects, prestigious publications, and innovations in digital public infrastructure, AI, e-health, and 5G/6G technologies, IIIT-Bangalore excels.”



Ms. Debjani Ghosh, President of NASSCOM and Guest of Honour, while emphasizing that we are in era of transformation and peak disruption, cautioned the graduates with her words “You are entering the workforce at a pivotal moment of transformation and peak disruption. The rules will constantly change, new players will emerge daily, and ultimate goals will keep shifting. Welcome to the game of AI. In this chaotic world, you’ll face daily upheaval and be asked to unlearn much of what you know. But there’s a method to this madness. AI levels the playing field, making age and experience less relevant. Success depends on how quickly you can unlearn, learn and adapt. Embrace the infinite game mindset, where there are no fixed goals or winners. Focus on moving fast to stay ahead. Continuous learning is essential, and being a learner, not an expert, will keep you relevant. Stay focused and adaptable to thrive in this new world.”



Padma Bhushan Mr. Kris Gopalakrishnan congratulated the students, highlighting that India has built a world-class industry setting global standards. He encouraged the graduates to strive for excellence and said, “I grew up building an industry that became a global standard, which gives me confidence and the desire to encourage each of you to strive for excellence and contribute to the world. India has a crucial role to play, and it will only succeed if you internalize this and aim to be the best. IIIT-Bangalore, despite being a small institute with about 1,400 students and 50-60 faculty members, has made significant global contributions. It has international students, helped 22 nations with their identity programs, and built the Myanmar Institute of Technology. Every academic institution and organization should aim for such global impact.”



Mother- Son duo received Ph.D & iM.Tech Degrees on the same dais

The 24th Convocation witnessed a unique and heartwarming moment, as a mother and son received their degrees on the same stage. Ms. Ranjani Niranjan was awarded her PhD, while her son, Raghava S N, received his Integrated M.Tech degree. This remarkable achievement highlighted the enduring spirit of dedication within the IIIT-Bangalore learning community. It stood as a testament to the supportive and nurturing environment at IIIT-Bangalore, where lifelong learning is not just encouraged but celebrated.

The highlights of the ceremony included celebrating students’ achievements, with awards and medals. The Institute Gold medals were awarded to R Vinay (M.Tech), Ankit Agarwal (i-MTech) and Kogatam Bharath (M.Sc Digital Society). Late Sri. N. Rama Rao Medal for Entrepreneur of the Year was awarded to Diwakar Chittora (IIIT-B Alumnus)



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6

NIRF RANKING



NIRF RANKING



IIIT-B was Ranked 74 among 1463 Engineering Colleges by NIRF



IIIT-Bangalore achieved a remarkable ranking of 74 out of 1463 engineering colleges in India, in the prestigious National Institutional Ranking Framework (NIRF). IIIT-B stands the 2nd best among all the 32 IIITs. The achievement reflected IIIT-B's unwavering commitment to excellence in various areas, such as teaching, learning, resources, research, professional practices, graduation outcomes, facilities for physically challenged students and perception ranking.



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7

NEW ACADEMIC PROGRAMMES



NEW ACADEMIC PROGRAMMES IN AY2024-25



Introduction of B.Tech Programmes

In alignment with the vision of the National Education Policy (NEP) 2020, IIT-Bangalore has embarked on an exciting growth trajectory to become a multidisciplinary institution. With approval from the All India Council for Technical Education (AICTE), IIT-B is proud to announce the launch of its first B.Tech programmes. These programmes will be offered in Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE), and Data Science & Artificial Intelligence (DSAI), and will commence in the 2024-25 academic year.

The objective of these four-year B.Tech programmes is to generate graduates of high caliber, equipped with industry-relevant knowledge and skills. The curriculum has been meticulously designed with inputs from academicians, industry leaders, and alumni to ensure it meets the current and future demands. Additionally, these programmes incorporate a learner-friendly, choice-based credit system, providing students with the flexibility to pursue courses that align with their interests and career goals.



Introduction of Executive Post Graduate Programme in Digital Product Design and Management

IIT-Bangalore will be starting an Executive Post Graduate Programme in Software Product Engineering and Management in the academic year 2024-25. This one-year programme is designed to meet the increasing demand for skilled professionals in the software product industry by providing a thorough understanding of both technical and managerial aspects.

The programme aims to equip students with a comprehensive 360° view of the software product life cycle, ensuring they are well-prepared to lead and innovate in the field. By covering all critical stages from concept to deployment, the curriculum ensures that graduates are well-rounded, industry-ready professionals capable of driving innovation and managing complex software products effectively.

8

DEAN'S LIST



DEAN'S LIST - JUNE 2024



The Dean's List at IIT-B honors the students of **MTech and MSc(DT)** who have attained a cumulative GPA of 3.75 or above. The list is updated annually.

#	Roll No	Name	Program
1	DT2023013	Sookthi Bhat Kav	Master of Science
2	MT2022056	Karishma Chauhan	Master of Technology
3	MT2022077	Prarthana U Shanbhag	Master of Technology
4	MT2022156	Shah Jainam Girishkumar	Master of Technology
5	MT2022504	Banda Anusha	Master of Technology
6	MT2022505	Boreddy Bharath	Master of Technology
7	MT2022514	Rakshit Bhatia	Master of Technology
8	MT2022515	Gogi Reddy Ravikiran Reddy	Master of Technology
9	MT2022521	Tejas B N	Master of Technology
10	MT2022522	R Vinay	Master of Technology
11	MT2022527	Sanampudi Gopala Krishna Reddy	Master of Technology
12	MT2022531	Gandi Ajay Kumar	Master of Technology
13	MT2023005	Bhumika Jindal	Master of Technology
14	MT2023017	Abhipsa Panda	Master of Technology
15	MT2023038	B Rahul	Master of Technology
16	MT2023050	Naik Vraj Jatin	Master of Technology
17	MT2023083	H Anarghya	Master of Technology
18	MT2023101	Patil Ankush Kiran	Master of Technology
19	MT2023117	Riya Patidar	Master of Technology
20	MT2023144	Swadi Korattiparambil	Master of Technology
21	MT2023158	Purkar Manasi Ashutosh	Master of Technology
22	MT2023506	Aishwarya V Koushik	Master of Technology
23	MT2023508	Alwin Shaju	Master of Technology
24	MT2023510	Valipireddy Pranathi	Master of Technology
25	MT2023513	Lakshmi Sai Niharika Vulchi	Master of Technology
26	MT2023519	Shant Rakshit	Master of Technology
27	MT2023520	Nancy Gupta	Master of Technology
28	MT2023533	Sushma R	Master of Technology
29	MT2023538	Kaparathi Rachana	Master of Technology

The Dean's List at IIIT-B honors the students of **Integrated Mtech (iMTech)** who have attained a cumulative GPA of 3.60 or above. The list is updated annually.

#	Roll No	Name	Program
1	IMT2019001	Abhinav H Kamath	Integrated Master of Technology
2	IMT2019003	Aditya Vardhan	Integrated Master of Technology
3	IMT2019004	Adrij Sharma	Integrated Master of Technology
4	IMT2019010	Ankit Agrawal	Integrated Master of Technology
5	IMT2019012	Archit Sangal	Integrated Master of Technology
6	IMT2019025	Suggula D V N P S M Manohar	Integrated Master of Technology
7	IMT2019026	Dakannagari Dhamodhar Reddy	Integrated Master of Technology
8	IMT2019028	Divyam Agrawal	Integrated Master of Technology
9	IMT2019030	G Sri Harsha	Integrated Master of Technology
10	IMT2019033	Ghazi Shazan Ahmad	Integrated Master of Technology
11	IMT2019034	Gunin Jain	Integrated Master of Technology
12	IMT2019037	Ishan Uday Shanware	Integrated Master of Technology
13	IMT2019043	Kautuk Raj	Integrated Master of Technology
14	IMT2019048	Lovejeet Singh Parihar	Integrated Master of Technology
15	IMT2019055	Muppuri Siva Jagadesh	Integrated Master of Technology
16	IMT2019057	Nandakishore S Menon	Integrated Master of Technology
17	IMT2019063	R Prasannavenkatesh	Integrated Master of Technology
18	IMT2019068	Rachapudi Maruthi Sriram	Integrated Master of Technology
19	IMT2019069	Rachna S Kedigehalli	Integrated Master of Technology
20	IMT2019070	Rajath Rao K N	Integrated Master of Technology
21	IMT2019075	Samaksh Dhingra	Integrated Master of Technology
22	IMT2019091	Venkat Suprabath Bitra	Integrated Master of Technology
23	IMT2019092	Bondugula Vignesh	Integrated Master of Technology
24	IMT2019097	Komma Yashovardhan Reddy	Integrated Master of Technology
25	IMT2019525	Vijay Jaisankar	Integrated Master of Technology
26	IMT2019507	Jonna Prashanth	Integrated Master of Technology
27	IMT2019508	Kalahasti V V Deepesh	Integrated Master of Technology
28	IMT2019514	Phani Sriram Vadali	Integrated Master of Technology
29	IMT2019529	Raghava S N	Integrated Master of Technology
30	IMT2020004	Sooraj Sathish	Integrated Master of Technology
31	IMT2020014	Chinchwadkar Netradeepak Manoj	Integrated Master of Technology
32	IMT2020015	Pawar Pushkar Sandip	Integrated Master of Technology
33	IMT2020018	Rachit Agrawal	Integrated Master of Technology

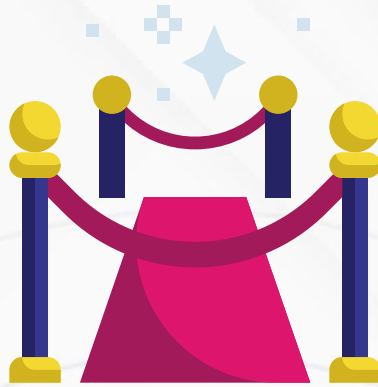
34	IMT2020024	Pavan Thanay Muthyala	Integrated Master of Technology
35	IMT2020025	Chaudhari Aniruddha Shailesh	Integrated Master of Technology
36	IMT2020032	Harne Sarthak Sanjay	Integrated Master of Technology
37	IMT2020039	Anshul Jindal	Integrated Master of Technology
38	IMT2020045	Mayank Chadha	Integrated Master of Technology
39	IMT2020051	Naitiksinh Solanki	Integrated Master of Technology
40	IMT2020053	Chaitanya Manas Cheedella	Integrated Master of Technology
41	IMT2020056	Rudransh Dixit	Integrated Master of Technology
42	IMT2020069	Chinmay Pankaj Parekh	Integrated Master of Technology
43	IMT2020072	Badam Teja Venkata Sumanth	Integrated Master of Technology
44	IMT2020073	Gatreddi Ashish	Integrated Master of Technology
45	IMT2020081	Arin Awasthi	Integrated Master of Technology
46	IMT2020084	Kondawar Arya	Integrated Master of Technology
47	IMT2020094	Riddhi Chatterjee	Integrated Master of Technology
48	IMT2020102	Tejdeep Gutta	Integrated Master of Technology
49	IMT2020109	Chinthan Chandra	Integrated Master of Technology
50	IMT2020501	Shreyansh Rajeeva Rai	Integrated Master of Technology
51	IMT2020502	Monjoy Narayan Choudhury	Integrated Master of Technology
52	IMT2020509	Hardik Khandelwal	Integrated Master of Technology
53	IMT2020512	Aakash Khot	Integrated Master of Technology
54	IMT2020523	Deshpande Kedar Yogesh	Integrated Master of Technology
55	IMT2020535	Venneti Shreeya Manasvi	Integrated Master of Technology
56	IMT2020546	B K Aamod	Integrated Master of Technology
57	IMT2020548	Tejas Sharma	Integrated Master of Technology
58	IMT2020553	Abhinav Mahajan	Integrated Master of Technology
59	IMT2020554	Anshul Akhilesh Madurwar	Integrated Master of Technology
60	IMT2021009	Madhav Sood	Integrated Master of Technology
61	IMT2021011	Deepkumar Patel	Integrated Master of Technology
62	IMT2021016	Harsh Kumar	Integrated Master of Technology
63	IMT2021017	Ketaki Srikrishna Tamhanakar	Integrated Master of Technology
64	IMT2021019	Siddharth Kothari	Integrated Master of Technology
65	IMT2021022	Subhajeet Lahiri	Integrated Master of Technology
66	IMT2021024	Krutik Patel	Integrated Master of Technology
67	IMT2021028	Sankalp Kothari	Integrated Master of Technology
68	IMT2021037	Handa Neil Jeetendra	Integrated Master of Technology
69	IMT2021040	Vikas Kalyanapuram	Integrated Master of Technology
70	IMT2021042	Maturi MSNVS Raghunadh	Integrated Master of Technology
71	IMT2021046	Siddharth Chauhan	Integrated Master of Technology

72	IMT2021048	Chavan Suyash Ajit	Integrated Master of Technology
73	IMT2021055	Vidhish Trivedi	Integrated Master of Technology
74	IMT2021058	M Srinivasan	Integrated Master of Technology
75	IMT2021062	Kushal Partani	Integrated Master of Technology
76	IMT2021066	Yukta Arvind Rajapur	Integrated Master of Technology
77	IMT2021067	Brij Bidhin Desai	Integrated Master of Technology
78	IMT2021101	Sai Madhavan G	Integrated Master of Technology
79	IMT2021103	Shlok Agrawal	Integrated Master of Technology
80	IMT2021524	Barath S Narayan	Integrated Master of Technology
81	IMT2021530	Akash Perla	Integrated Master of Technology
82	IMT2022001	Siddharth Menon	Integrated Master of Technology
83	IMT2022003	Ritish Shrirao	Integrated Master of Technology
84	IMT2022017	Prateek Rath	Integrated Master of Technology
85	IMT2022018	Swetha Murali	Integrated Master of Technology
86	IMT2022028	Nikita Kiran	Integrated Master of Technology
87	IMT2022030	Hemant Gupta	Integrated Master of Technology
88	IMT2022031	Maramreddy Siddharth Reddy	Integrated Master of Technology
89	IMT2022038	Aaryan Ajith Dev	Integrated Master of Technology
90	IMT2022042	Sai Venkata Sohith Gutta	Integrated Master of Technology
91	IMT2022050	Shiven Phogat	Integrated Master of Technology
92	IMT2022055	Harsh Modani	Integrated Master of Technology
93	IMT2022064	Praveen Peter Jay	Integrated Master of Technology
94	IMT2022075	Aditya Priyadarshi	Integrated Master of Technology
95	IMT2022076	Naik Mohit Avinash	Integrated Master of Technology
96	IMT2022080	Siddhesh Deshpande	Integrated Master of Technology
97	IMT2022082	Sathvik S Rao	Integrated Master of Technology
98	IMT2022086	Ananthakrishna K	Integrated Master of Technology
99	IMT2022089	Aayush Bhargav	Integrated Master of Technology
100	IMT2022107	Shashank Siddappa Devarmani	Integrated Master of Technology
101	IMT2022115	Dave Kandarp Samir	Integrated Master of Technology
102	IMT2022118	Shashwat Chaturvedi	Integrated Master of Technology
103	IMT2022507	Vishruth Vijay	Integrated Master of Technology
104	IMT2022523	Dyuthi Vivek	Integrated Master of Technology
105	IMT2022525	Devarakonda Pradyun	Integrated Master of Technology
106	IMT2022552	Shannon Muthanna I B	Integrated Master of Technology
107	IMT2022570	Mupparapu Koushik	Integrated Master of Technology
108	IMT2022571	Sasi Snigdha Yadavalli	Integrated Master of Technology
109	IMT2023001	Sure Venkata Nagasai Sathvik	Integrated Master of Technology

110	IMT2023003	Pasupuleti T A N S V Vignesh	Integrated Master of Technology
111	IMT2023005	Gourav Anirudh B J	Integrated Master of Technology
112	IMT2023006	Avancha Dedeepya	Integrated Master of Technology
113	IMT2023011	Aarpeet Chandrasekhar	Integrated Master of Technology
114	IMT2023013	Areen	Integrated Master of Technology
115	IMT2023014	Sarthak Maheshwari	Integrated Master of Technology
116	IMT2023015	Parsania Ramya Parulbhai	Integrated Master of Technology
117	IMT2023020	Subikshaa Sakthivel	Integrated Master of Technology
118	IMT2023026	Siddharth Prashant Kini	Integrated Master of Technology
119	IMT2023029	Abhirath Adamane	Integrated Master of Technology
120	IMT2023032	Dhruv Ramesh Joshi	Integrated Master of Technology
121	IMT2023034	Agrawal Nainika Mayank	Integrated Master of Technology
122	IMT2023037	Chinthakunta Sai Venkata Chandrahas Reddy	Integrated Master of Technology
123	IMT2023051	Saheem Showkat Reshi	Integrated Master of Technology
124	IMT2023058	Pranav Sandeep	Integrated Master of Technology
125	IMT2023075	Ankith Kini	Integrated Master of Technology
126	IMT2023087	Pushkar Jitendra Kulkarni	Integrated Master of Technology
127	IMT2023089	Gathik Jindal	Integrated Master of Technology
128	IMT2023094	Velidanda Krishna Sai	Integrated Master of Technology
129	IMT2023098	R Ricky Roger	Integrated Master of Technology
130	IMT2023103	Nirbhay Sharma	Integrated Master of Technology
131	IMT2023104	Subhash H	Integrated Master of Technology
132	IMT2023106	Harsh Mohta	Integrated Master of Technology
133	IMT2023109	Parth Sivakumar	Integrated Master of Technology
134	IMT2023112	Mohammed Ibrahim	Integrated Master of Technology
135	IMT2023113	Bojja Sunhith Reddy	Integrated Master of Technology
136	IMT2023115	Sriram Srikanth	Integrated Master of Technology
137	IMT2023116	Pramatha V Rao	Integrated Master of Technology
138	IMT2023126	Kartikeya Dimri	Integrated Master of Technology
139	IMT2023509	Lakshya Kapoor	Integrated Master of Technology
140	IMT2023513	Aryan Vivek Bansal	Integrated Master of Technology
141	IMT2023523	Jayant Sharma	Integrated Master of Technology
142	IMT2023540	Ansh Gupta	Integrated Master of Technology
143	IMT2023548	Aaryan Antala	Integrated Master of Technology
144	IMT2023552	M S Dheeraj Murthy	Integrated Master of Technology
145	IMT2023571	Harsh Sinha	Integrated Master of Technology
146	IMT2023611	Vridhhi Agrawal	Integrated Master of Technology
147	IMT2023622	Santhosh Vodnala	Integrated Master of Technology

9

EVENTS & HAPPENINGS



EVENTS



August 5, 2023

International Traffic Light Day with Road Safety Awareness Programme



An awareness programme was organized at the IIIT-Bangalore campus to commemorate International Traffic Light Day. It was aimed to create awareness on road safety and instill responsible driving practices among the participants.

The programme commenced with dance performances presented by the Dance Club and Theatre Club. The choreography emphasized the importance of adhering to traffic signals, the necessity of wearing seat belts and the dangers of distracted driving. There was a PowerPoint presentation on statistics related to road accidents which highlighted the significance of traffic signals and elucidated the dire consequences of reckless driving.

September 1, 2023

Carnatic Code



As part of the Institute's Silver Jubilee year celebration, On September 1, a mesmerizing Carnatic music concert, Carnatic Code was organised at IIIT-Bangalore featuring eminent artists in the field. The concert had much coveted artists including Sri. Nishanth Chandran on the Violin, Sri. BC Manjunath on the Mridangam, Sri. Guruprasanna G on the Kanjira and Smt. Bhagyalakshmi M Krishna on the Morsing. The evening began with light the lamp by Prof. S S Prabhu, retired professor of IIIT-Bangalore and Commodore S R Sridhar (Retd), Registrar of IIIT-B. The concert featured the soul-stirring musical performances by the artists. To provide a deeper understanding of Carnatic music, the artists engaged in interactive sessions with the audience. They discussed the fundamentals of raga, tala and the intricacies of classical compositions, allowing attendees to gain a deeper appreciation of the art form.

September 7, 2023

All Hands Meet (AHM) to Address Students' Grievances



In an effort to enhance communication between the IIITB Administration and the student community, an 'All Hands Meet' (AHM) was organized to address a spectrum of student-related issues, including academics, research, hostel facilities, food, and

student welfare. Professor Debabrata Das, the Director, presided over the AHM meeting and highlighted that this initiative was introduced for the first time in the IIITB campus. He emphasized that the AHM serves as a platform to listen to and address a variety of student concerns.

September 12-15, 2023

'Hack-the-Metaverse' Hosted at IIIT-B



The IEEE Computer Society Bangalore Chapter was thrilled to organize “Hack-the-Metaverse,” event, a groundbreaking Metaverse hackathon set to take place at the prestigious International Institute of Information Technology Bangalore (IIIT-B) during September 12 to 15. The participants delved into the Metaverse as they obtained a comprehensive understanding of its technology and applications and they benefited from tutorials, training sessions, problem-solving challenges and an exciting hackathon competition. Furthermore, they had the chance to showcase their projects to industry professionals.

September 15, 2023

Engineer's Day



Engineer's Day is celebrated annually on September 15 to commemorate the birth anniversary of Sir M. Visvesvaraya, a renowned Indian engineer and statesman. This day serves as a tribute to the invaluable contributions of engineers to society. To mark this special occasion, Prof. Dinesh Babu Jayagopi delivered an inspiring talk on “Human Centered AI Science & Engineering”, motivating young minds and celebrating the spirit of engineering.

September 18, 2023

Cultural Programmes to Commemorate Silver Jubilee



On September 18, IIIT-Bangalore held celebrations having completed 25 years! To commemorate this key Foundation Day, the entire institute dwelled into the celebration mode with cultural activities by the students, faculty and staff. The event began by lighting the lamp by our Director, Dean Academics, Prof Chandrashekar Ramanathan, Dean R&D Prof Srinath Srinivasa, Dean Faculty Prof. Shrisha Rao, Dean Student Affairs Prof. Manisha Kulkarni, Registrar Commodore Sridhar and Student representatives Sahiti and Gowtham. On this special occasion, Prof. Thangaraju Balasubramanian, Prof. VN Muralidhara and Prof. Meenakshi D' Souza were awarded the Certificate of Appreciation by the Director in recognition of their substantial teaching contribution at IIIT-Bangalore during the period 2020 – 2023.

September 22, 2023

Haasya Kavi Sammelan



As part of IIIT-B's Silver Jubilee year celebration on September 22, 2023, Hasya Kavi Sammelan unfolded at IIIT-Bangalore, featuring distinguished poets renowned for their wit in the field. This event, dedicated to the celebration of humorous poetry, brought together some of the most acclaimed humorists and poets from the region. The audience, eager for laughter and clever verses found the Hasya Kavi Sammelan to be an unforgettable experience. The lineup of eminent poets included Dr. Vivek Vijay, Associate Professor at IIT Jodhpur, Dr. Sartaj Ali, Associate Professor at IIT Jammu, Dr. Ram Akela, Director, Poet & Author, and Mr. Shubham Pandey from IIT Jodhpur. The poets delved into a diverse range of topics, from everyday life & relationships to addressing the social and political issues.

September 23, 2023

Graduation Ceremony of CPE



The graduation for the Continuing Professional Education (CPE) programme at IIIT-Bangalore was held to celebrate the success of over 5,000 learners

who aced their online certificate programs in Data Science, Machine Learning, Artificial Intelligence, and Software Development. Around 700 graduates showed up in person to soak in the moment, while 3,000 joined the celebration online. These fantastic programs were made possible through IIIT-B's tech partnership with upGrad. The Chief Guest of the event Ms. Sindhu Gangadharan, SVP and MD, SAP Labs India and Vice Chairperson, NASSCOM along with Prof Debabrata Das, Director of IIIT Bangalore and Mr. Mayank Kumar, Co-Founder & MD, upGrad distributed awards to the high performing working professionals who attended the programme.

September 30, 2023

Workshop for IIIT-B's Security Personnel to Manage Distressed Students



Dr. Bhooma Krishnan, Senior Psychological Counsellor from YourDost conducted a workshop tailored for the security personnel at IIIT-Bangalore. The workshop's aim was to empower them with the expertise and capabilities needed to manage distressed students. Mrs. Bhooma delved into various aspects, including recognizing symptoms, navigating such situations with maturity, offering guidelines for incident reporting and emphasizing crucial do's and don'ts. She shared insights on establishing a connection with students and advised keeping a vigilant eye on hostel rooms, urging prompt reporting of any suspicious incidents to the relevant authorities.

October 23-24, 2023

The Garbha Night



The Student Activities Council (SAC) orchestrated the lively Garbha Night, a daylong celebration supported by the Food Committee and the Dance Club. The Dance Club played a crucial role, hosting workshops over two days in the Ramanujan basement to teach registered students the rhythmic Garba steps. The culmination of the event featured the symbolic Ravan Dahan, a safe and controlled burning of the Ravan statue, signifying the triumph over evil.

October 31, 2023

National Unity Day



IIIT-Bangalore commemorated National Unity Day, paying tribute to the birth anniversary of Sardar Vallabhbhai Patel, often referred to as the Iron Man of India. The occasion was marked by an event dedicated to encouraging unity within our community and nation, emphasizing the shared values that unite us all.

November 3, 2023

Silver Jubilee Felicitation and Vaedictory Function



The big Felicitation and Vaedictory event on November 3 was like the grand finale to our year-long Silver Jubilee celebrations. It was a day to remember, where we felicitated the trailblazers who made IIIT-Bangalore happen and were a key part of our amazing 25-year journey. True to its purpose, the event started by honoring the legends of IIIT-Bangalore, former and current Chairmen. Mr. N Viswanathan, an ex-IAS officer and IIIT-B's Chairman from 1998 to 2000, played a key role in bringing the institute to life while he was Karnataka's Principal Secretary. Padma Vibhushan Mr. N. R. Narayana Murthy, Co-Founder of Infosys and Catamaran, chaired the Governing Body from 2000 to 2012, acting as a rock-solid guide during IIIT-B's formative years and contributing immensely to its well-being and growth. IIIT-B's Former Director, Prof. S Sadagopan, who took the reins on June 3, 1999 and played a crucial role in shaping the institution was also honored. Former registrars, senior non-teaching staff members, and alumni were also honored. Mr. Kris

Gopalakrishnan and Prof. Debabrata Das unveiled IIIT-Bangalore's anthem and the Silver Jubilee Coffee Table book was unveiled by our Director, along with the three Chairmen—Mr. N. Viswanathan, Padma Vibhushan Mr. N. R. Narayana Murthy, and Padma Vibhushan Mr. Kris Gopalakrishnan. The proceedings came to an end with a delightful plantain leaf lunch which served a tempting array of delicious dishes.

November 8, 2023

Bangalore on IT Session by Dr. Pramod Varma



IIIT-Bangalore hosted a talk by Dr. Pramod Varma, Former Chief Architect of Aadhaar & India Stack, CTO of EkStep Foundation, Co-Founder of FIDE.org, and Creator of becnprotocol.io. As the Co-Chair at Center for DPI (CDPI.dev), he presented a captivating topic, 'Towards Inclusive Digital Economy: India's Digital Public Infrastructure Journey.' Dr. Pramod elaborated on how India's digital evolution relied on strategic thinking, collaboration and innovative solutions. He highlighted the successful navigation of significant challenges, leading to the establishment of a thriving digital ecosystem and the implementation of a digital identity program covering over one billion people and how transition, marked by strategic planning and collaborative efforts, has laid a solid foundation for an extensive digital landscape, positively impacting the nation's vast population.

December 10-13, 2023

IEEE India Geoscience and Remote Sensing Symposium (InGARSS 2023)



IIIT-Bangalore hosted the IEEE India Geoscience and Remote Sensing Symposium (InGARSS 2023) from December 10-13. The symposium, the third in its series, served as a vital platform for remote sensing and geoscience researchers and practitioners. Organized by the Bengaluru chapter of IEEE GRSS (Geoscience and Remote Sensing Society), the conference showcased the latest developments and advancements in geoscience and remote sensing technologies. The Symposium featured a comprehensive program including plenary keynote talks, research paper presentations, doctoral colloquium, tutorials, community events, industry presentations and exhibits. Space technology events in collaboration with international agencies such as NASA/JPL, ISRO/NRSC, ESA and DLR were also highlighted during the symposium.

January 1, 2024

Inauguration of C-TAC



The Center for Theory and Applications of Computing (C-TAC) was inaugurated by the Director on 1st January, 2024. The primary objective of C-TAC is to cultivate a dynamic, interdisciplinary research environment that advances the frontiers of computing theory while

fostering meaningful applications that address real-world challenges. This center aims to become a hub of innovation, attracting top-tier PhD students, renowned theoreticians, and industry collaborators.

January 4-7, 2024

International Conference on Data Science and Management of Data (CODS-COMAD)

IIIT-Bangalore hosted the International Conference



on Data Science and Management of Data (CODS-COMAD) from January 4-7, 2024. CODS-COMAD, the flagship conference of ACM India Special Interest Group on Knowledge Discovery and Data Mining (IKDD). The conference witnessed an illustrious lineup of keynote speakers, featuring renowned academicians and industry experts in the field of Data Science. Notable figures such as Professors Thomas Dietterich, David Page, Sunita Sarawagi, Ragini Verma, Susam Davidson and Partha Talukdar delivered keynote talks, offering invaluable insights into the latest advancements and trends in the domain of Data Science.

January 6, 2024

IEEE-CSS-Bangalore-Chapter's Annual Workshop

IIIT-Bangalore hosted a one-day workshop "Data Driven Techniques in Control & Applications" on January 6 as a part of the Annual Workshop series of IEEE CSS Bangalore Chapter. The organizers were Dr. Jayesh Barve from GE Global Research and Prof. Sachit Rao from IIIT-B.

The first half of the workshop had lectures from academia and industry. Speakers from IISc and IIIT-B brought forth the challenging problems in robotics and automotive applications and presented the amalgamation of the control aspects and Machine Learning/Deep learning to address the problems. The talk by Mr. Surendhar Selvaraj from Continental Automotive gave an idea of the magnitude of data generated by the next-generation vehicles and also in managing these vehicles.

In the second half of the workshop, the Lab-Demo/ Hands-On session was conducted by Mathwork Team led by Dr. Souvick Chatterjee. The hands-on session elaborated on the use of Reinforcement learning for Control and Applications. In summary, the workshop was an enriching experience with discussions and learning.

January 12, 2024

Happy Healthy Hour



At the Happy Healthy Hour, Mr. Indranil Ray, an experienced yoga instructor, led a fulfilling one-hour session for faculty, staff and students. During the session, Mr. Ray guided participants through a comprehensive yoga regimen, covering a spectrum of practices including warm-up and core asanas and pranayamas. Participants found the session to be rejuvenating, with the holistic approach to yoga, promoting physical well-being, mental clarity and inner peace.

January 18, 2024

Staff Training on 'Enhancing Communication Skills'



Effective and assertive communication is important in both interpersonal interactions and official settings. The significance of communication dynamics became abundantly clear during a compelling hour-long session held by Lt Cdr (Retd.) Sushree Shivaneer Pattnaik, a leadership-communication coach, for all staff members of IIIT-Bangalore.

January 20, 2024

Confluence 2024

Confluence 2024 made its grand debut at IIIT-Bangalore marking a significant milestone in the institution's calendar. The event showcased an array of extraordinary talks by distinguished individuals hailing from diverse domains, captivating audiences with their expertise and insights.



On January 20, Confluence 2024 unfolded under the theme, "The Butterfly Effect: Small Acts, Big Impact," resonating with the notion that even seemingly minor actions can lead to profound consequences. The

event brought together a lineup of distinguished speakers, each offering unique perspectives and enriching discussions.

The key speakers at the event included Dr. Kailash Nadh, CTO at Zerodha, an expert in Artificial Intelligence & Computational Linguistics, Dr. Manish Gupta, Director of Google Research India. Arjun Majumdar, the entrepreneur behind Indiahikes who shared his vision for exploring new trekking trails. Ms. Susan Thomas, an IRS officer and feminist, shed light on power structures and value systems in institutions. Manek D'Silva, an illustrator & designer, brought creativity with rich storytelling and a cheeky sense of humor. Deyvant Bhardwaj, co-founder of Inside FPV, showcased innovation in drone technology for defense, agriculture and commercial use.

Confluence 2024 served as a platform for intellectual exchange, inspiration and exploration, reinforcing IIIT-B's culture of innovation and collaboration. The event left participants enlightened, empowered and inspired to embark on their own journeys of impact and transformation.

January 24, 2024

Free Health Check-Up



IIIT-Bangalore campus hosted a health camp aimed at benefiting faculty and staff members. The camp encompassed a range of medical assessments, including measurements of height, weight, Body Mass Index (BMI), random blood sugar levels, blood pressure checks and electrocardiograms (ECG).

January 29, 2024

Special Talk by Mr. Shriram Krishnamurthi



IIIT-Bangalore held a special talk by Mr. Shriram Krishnamurthi, Vice President for Programming Languages at Brown University in Providence, RI, USA who spoke on “The Human Factors of Formal Methods”. The talk highlighted that as formal methods improve in expressiveness and power, they create new opportunities for non-expert adoption. In principle, formal tools are now powerful enough to enable developers to scalably validate realistic systems artifacts without extensive formal training. However, realizing this potential for adoption requires attention to not only the technical but also the human side—which has received extraordinarily little attention from formal-methods research.

January 30, 2024

Farewell for Housekeeping Staff



IIIT-Bangalore bid a farewell to supporting staff members, Mr. Y Reddappa Reddy and Mr. Mulavandla Palli Venkatramana.

February 5, 2024

IAF Training Program



Our Director Prof. Debabrata Das inaugurated the 1st cohort of Indian Air Force officers on 5 February. Fifteen IAF officers were trained by our esteemed faculty for 90 hours on Fundamentals of Communication Theory and DSP for SDR Waveform Generation.

February 8, 2024

CITAPP's Symposium and Unveiling of itihaasa Research and Digital Survey Report



The Centre for IT and Public Policy (CITAPP) at IIIT-Bangalore organized a symposium titled “Emerging Opportunities and Challenges in the Digital Society”. The event comprised an overview of CITAPP’s research and outreach endeavors and the release of the Digital Society survey report by itihaasa Research and Digital. The comprehensive report, unveiled by

Mr. Kris Gopalakrishnan and Prof. Debabrata Das, Director of IIIT-B. The report synthesized responses from over 1800 individuals across diverse socio-economic categories.

Following the report launch, there was a panel discussion consisting Prof. Sudhir Krishnaswamy from the National Law School of India University Bangalore, Prof. Rajalaxmi Kamath from the Centre for Public Policy at IIM Bangalore, and the authors of the report. Dr. N. Dayasindhu and Mr. Krishnan Narayanan. During the event, IIIT-B also unveiled a one-year full-time Post Graduate Diploma program in Digital Product Design and Management.

February 14, 2024

Training session on Financial Planning and Management



Mr. Aditya K Chopra, Founder & CEO, AKC Capital conducted a session at IIIT-Bangalore. The session offered the staff and faculty with essential insights into navigating the intricacies of financial management.

February 14, 2024

Best Cluster's Innovative Solutions for Mega-Regional Mobility Event



IIIT-Bangalore and Bengaluru Science and Technology (BeST) Cluster, in collaboration with the Office of the Principal Scientific Adviser to the Government of India convened a gathering of visionaries and experts to tackle Bengaluru's mobility challenges and the event was led by Prof Abdul Pinjari from IISc Bangalore and Prof Srinath Srinivasa from IIIT-Bangalore, stakeholders explored the concept of a megaregion around Bengaluru, aiming to alleviate traffic congestion and drive economic growth. The event also showcased the BeST Cluster's commitment to innovation through collaborative projects like "One Health Bengaluru city model" and "Bengaluru Quantum Technology Initiative."

February 22, 2024

Talk by Mr. Bob McCowan



Mr. Bob McCowan, the Senior Vice President and Chief Information Officer at Regeneron, shared his expertise in big data, innovation and strategic IT investments during an enlightening presentation on Data Protection in AI Adoption at IIIT-Bangalore. Engaged students benefited from valuable insights into the crucial intersection of data protection and the adoption of AI technologies.

February 22-24, 2024

ISEC 2024



IIIT-Bangalore held 17th edition of the Innovations in Software Engineering Conference (ISEC 2024) held from 22-24 February. Formerly known as the India Software Engineering Conference, ISEC became the flagship annual event of iSOFT, the India chapter of ACM SIGSOFT, under the esteemed umbrella of ACM India.

Prof. Debabrata Das, Director of IIIT-Bangalore inaugurated the conference and Prof. Sujit Chakrabarti was the General Chair of ISEC 2024. Prof. K. V. Raghavan (IISc) and Dr. Raveendra Medicherla (TCS Research) served as the organising co-chairs. ISEC 2024 marked IIIT-B's commitment to encourage innovation and collaboration in software engineering, leaving participants with fresh insights, renewed inspiration and strengthened connections to drive future advancements in the field.

February 28, 2024

Talk by Mr. Divy Thakkar

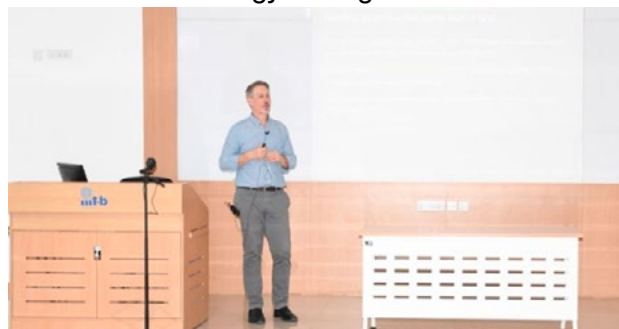
Mr. Divy Thakkar, Program Manager at Google Research, gave an insightful talk on 'Evolving Collaborations: Human-Human and Human-AI Dynamics'.

March 11, 2024

Special Invited Talk by Prof. Matthew Zook

IIIT-Bangalore invited Prof. Matthew Zook,

Department of Geography at University of Kentucky to speak on 'Blockchain Real Estate: The Messy Landing of Digital Property'. His research centers on evolving economic and social practices afforded by information technology and big data.



March 20, 2024

Happy Healthy Hour & Women's Day Celebrations



IIIT-Bangalore celebrated International Women's Day on March 20 in the presence of our Director, Prof. Debabrata Das and Registrar, Commodore SR Sridhar (Retd), alongside faculty, staff and students. The festivities commenced with a special Zumba session led by Ms. Praseena M S, Women's Gymnasium Trainer at IIIT-B and a Pranayama session conducted by Mr. Indranil, a certified Yoga instructor for men. A heartwarming movie titled 'Devi' was screened for the women, followed by a cake-cutting ceremony and a spirited game of hopes relay, brimming with laughter. Winners and runners-up were awarded delightful prizes and delectable snacks were savored by all.

March 22, 2024

RISE 2024: Uniting Minds for Innovation and Entrepreneurship



This year, RISE (Research Innovation Society & Entrepreneurship) surpassed the expectations, attracting over 500 visitors to a dynamic two-day event. It began with a summit on 'Sustaining and Scaling up Innovation & Entrepreneurship in Academia,' featuring keynote addresses from industry leaders like Mr. Chandran Krishnan and Mr. Uday Prabhu. The RISE Open House displayed a diverse array of research through posters and demos in fields such as Data Science, Computer Science & Software Engineering, Physics, Network Communications, Signal Processing, IT and Society, and VLSI. Highlights included innovations in privacy protection for video data, virtual avatars, advanced multi-robot path planning algorithms, quantum internet technologies, hardware accelerators for radio demodulation, IoT-enabled environmental monitoring systems, and 3D virtual environments. The event emphasized the multidisciplinary nature of modern research and its significant societal and technological impacts.

March 23, 2024

Sangam 2024

The spirit of Sangam was alive and vibrant as alumni reconnected with old friends, reminisced about their cherished memories, and forged new connections. The sense of camaraderie and belonging created an unforgettable experience for all. Families enjoyed

a dedicated Kids Room, where children engaged in arts and crafts, games, and movies under student supervision. The Experience Zone sparked curiosity and creativity with interactive exhibits and installations. Attendees enjoyed games, tarot card readings, and a charming photo booth that captured and framed memories instantly. Attendees indulged in a mouthwatering array of student-run snack stalls and enjoyed dinner while catching up with old friends and making new memories.



March 29, 2024

RISE PhD Colloquium



As part of RISE 2024, a PhD colloquium provided doctoral students with a platform to showcase their research findings and receive feedback from peers and faculty members. This event allowed the research scholars to present their work, discuss emerging trends and explore interdisciplinary collaborations. Prof. Debabrata Das, our Director, delivered a detailed presentation addressing research scholars, he provided insights on defining research problems, solving them and writing high-quality technical papers in their respective areas of interest.

April 11, 2024

Invited Talk by Prof. Arvind Rao



IIIT-Bangalore hosted an enlightening talk by Prof. Arvind Rao from the University of Michigan. His presentation, titled “Machine Learning Approaches to The Interpretation of Spatial Imaging & Transcriptomic for Personalized Medicine,” explored the intersection of machine learning and personalized medicine. Prof. Rao discussed innovative ways to apply machine learning to spatial imaging and transcriptomic data, offering valuable insights for tailored healthcare solutions.

April 15, 2024

Invited Talk by Prof. Radhakant Padhi



Prof. Radhakant Padhi from IISc Bangalore gave a talk on “Optimal Guidance in India’s Chandrayaan-3 Mission and Beyond.” He discussed a control-synergetic optimal powered descent guidance algorithm used for Chandrayaan-3’s precise autonomous landings

near the moon’s south pole. The talk also highlighted quadcopter experiments conducted to build confidence before the Chandrayaan-3 mission.

May 3, 2024

Closing ceremony of Training programme for IAF Officers



A 90-hour training program on Communication Theory and Digital Signal Processing (DSP) for Software-Defined Radio (SDR) waveform generation was conducted for twelve Indian Air Force officers. The program concluded on May 3, with each officer receiving a participation certificate from Director Prof. Debabrata Das.



May 22, 2024

Book talk-Dr. Krishna Jayakar-Penn State University



IIIT-Bangalore hosted book talk by Dr. Krishna Jayakar, Professor and Head of the Department of Telecommunications and Media Industries at the Donald P. Bellisario College of Communications, Penn State University, USA. Dr. Jayakar discussed the book he co-authored, “Making Policy for the New Information Economy: Mobile Standards in China and India for 3G to 5G and Beyond.”

May 26-June 1, 2024

IIIT-Bangalore, in collaboration with IIIT Hyderabad, hosted 3D Vision Summer School (3DVSS 2024)



A seven-day program focused on advanced topics in 3D vision was open to undergraduate and graduate students as well as industry professionals. Around 150 participants from academia and industry attended the event. The summer school provided deep technical insights and hands-on experience in 3D vision technologies, covering topics like Deep

Learning in 3D Computer Vision, Human 3D Modeling, and Generative AI in 3D Vision. Participants learned from leading researchers through invited talks by Dr. Stefanie Wuhrer (INRIA, France), Prof. PJ Narayanan (IIIT Hyderabad, India), Dr. Vladislav Golyanik (MPI Informatik, Germany), Dr. Bernhard Kerbl (TU Wien/CMU, USA), Prof. KS Rajan (IIIT Hyderabad, India), Prof. Karan Singh (Toronto University, Canada), Dr. Ramya Hebbalaguppe (TCS Research, India), Prof. Manmohan Chandraker (NEC Lab, USA), and Dr. Shunsuke Saito (Reality Labs, Meta, USA).

June 3-14, 2024

DPI Dialogues 2024



The “DPI Dialogues” event was hosted by the Centre for Open Societal Systems (COSS) at IIIT-Bangalore. From June 3 to June 14, a delegation from the Brazilian Government participated in the India DPI Immersion Program at IIIT-Bangalore. Organized by COSS and supported by the EkStep Foundation, this program was designed to offer the Ministry of Management and Innovation in Public Services, Brazil and its partners an in-depth experience of India’s DPI initiatives.

June 10, 2024

Web Science for Development (WS4D 2024)



The theme of Web Science for Development (WS4D 2024) workshop was on Digital Public Infrastructures. It featured invited talks by visiting researchers from the Centre of Data for Public Good, IISc Bangalore and other invitees from other parts of India. The workshop involved a DPI thinking poster presentation competition. Dr. Jyotirmoy Dutta and Dr. Raghuram Krishnapuram from CDPG, IISc were speakers at the WS4D 2024 workshop.

June 11-13, 2024

Workshop and Faculty Development Programme on DPI in the Age of AI



A Workshop and Faculty Development Programme on Digital Public Infrastructures in the Age of AI was held from June 11-13 that aimed to create awareness about DPIs in terms of their socio-technical requirements, present state-of-the-art methodologies that real-world DPI developers are using. The workshop highlighted cutting edge research challenges around the theme of DPIs and how researchers in the area of social science, computer science and AI are trying to address these challenges.

June 14-15, 2024

Ethical RISC-V IoT Workshop



IIIT-Bangalore conducted an educational competition, “Ethical RISC-V IoT Workshop” with VSD! Started from May 9, the event comprised hackathon and workshop to tackle real-world IoT challenges. Participants built applications, managed faults and enhanced security and the top innovations were showcased.

June 21, 2024

International Yoga Day



A yoga session was conducted by a certified yoga instructor, Mr. Indranil Ray. The event commenced with a lamp lighting by the Dean Academics of IIIT-Bangalore, Prof. Chandrashekar Ramanathan along with all other dignitaries. The session included various asana (postures), pranayama (breathing exercises), and meditation techniques. The event not only highlighted the importance of yoga in achieving a balanced life but also fostered a sense of community and well-being among the attendees. It served as a reminder of the profound impact of yoga on physical and mental health, encouraging everyone to incorporate it into their daily routines.

SPORTS ACTIVITIES



August 29, 2023

National Sports Day

The Sports Day, organized by the Sports Committee showcased the spirit of sportsmanship and unity among the students, faculty and staff.



Two exhilarating events took center stage – a 3 km run and a thrilling game of kabaddi. The Run saw participants of all ages and abilities, running through the scenic campus. The kabaddi matches were a testament to teamwork and strategy, with each team displaying exceptional skills. The National Sports Day was not only celebrated the importance of sports but also highlighted the talents and dedication of our students.

November 3-5, 2023

Umang 2023



Umang 2023 marked the 4th edition of IIIT Bangalore's annual intercollege sports fest, spanning from November 3rd to 5th. With over 850 students from 25

different colleges participating in 10 diverse events, including Football, Volleyball, Chess and more, this iteration was the largest yet. The opening ceremony on November 3 featured the hoisting of the IIIT-B flag and a performance by the music club, Symphony and our Director, Prof. Debabrata Das inaugurating the event. Trupti Murgunde, a renowned badminton player and Dhyam Chand awardee was invited as the Chief Guest for the Umang 2023 closing ceremony.

February 1-4, 2024

Sports Fest 'ARENA'



The IIIT-Bangalore students showcased remarkable talent and sportsmanship at the "Arena" sports fest held at BITS Hyderabad. In Table Tennis, our team, comprising i-MTech Students Nilay Kamat, Siddharth Vikram, Jayesh and Chinmay, performed impressively, securing the runner-up position in a tough competition.



Mohak from MTech Course secured the bronze medal in 3km run with a remarkable time of 11 minutes and 10 seconds in Athletics.

March 24-25, 2024

Spandan 2024



Spandan 2024, (the annual intra-college sports fest at IIIT Bangalore), took place on March 24 and 25, attracting 900 participants. With 14 events ranging from Basketball & Football to Esports and Gym competitions, there was something for everyone. The event kicked off with a flag hoisting and a grand opening ceremony led by Director Prof. Debabrata Das, Registrar Commodore SR Sridhar (Retd), and Sports Officer Dr. Neha Arora.

Over two days, thrilling matches and intense competition highlighted the talent and sportsmanship of the participants. The fest concluded with a memorable closing ceremony where Prof. Debabrata Das, Commodore SR Sridhar (Retd), and Dr. Neha Arora awarded medals and certificates to the winners and runners-up.

April 7, 2024

IIIT-Bangalore's Miles4Meals-A Run for a Cause and Fitness



On April 7, IIIT-Bangalore partnered with the Akshaya Patra Foundation to raise funds for midday meals for school children and promote physical fitness. The second edition of Miles4Meals featured 5k and 10k runs, attracting around 200 runners, including 95-year-old marathoner Mr. N S Dattatreya, who completed the 5k and advocated for healthy eating and fitness.



The event was inaugurated at 6:00 AM by IIIT-Bangalore's Director Prof. Debabrata Das, Commodore SR Sridhar (Retd), Sports Officer Dr. Neha Arora and Akshaya Patra's Ms. Arockia Mary. Miles4Meals event was a resounding success, showcasing solidarity and collective action.

SAMVAAD

WEEKLY TALK SERIES



August 3, 2023: 'Applications of Symbolic and Neuro-Symbolic AI' by Prof. Raghava Muthuraju, IIT Delhi.

August 7, 2023: 'Introduction to Internet of Bodies and Human-Body Communication' by Prof. Kurian Polachan, IIT-Bangalore.

August 14, 2023: 'Cloud workload prediction & data protection using quantum machine learning' by Prof. Ishu Gupta, IIT-Bangalore.

August 21, 2023: 'Deep Reinforcement Learning Algorithms for Off-policy Control and their Applications' by Prof. Raghuram Bharadwaj, IIT-Bangalore.

August 28, 2023: 'Modern Streaming-Data Systems: Design, Challenges, and Insights' by Prof. Vinu E Venugopal, IIT-Bangalore.

September 4, 2023: 'Joy of Discovery in the Modern Era: Some Reflections and Directions' by Prof. B. Ananthanarayan from CHEP, IISc.

September 9, 2023: 'Human-centered vision and graphics' by Prof. Dinesh Babu Jayagopi, IIT-Bangalore.

September 11, 2023: 'Cryo-CMOS Circuits and Systems for Quantum Computing Applications' by Prof. Manikandan, IIT-Bangalore.

October 16, 2023: 'Designing for Privacy in Healthcare applications' by Prof. T K Srikanth, IIT-Bangalore.

October 30, 2023: 'In Data Protection Infrastructures and Regulations, we trust?' by Prof. Janaki Srinivasan, Prof. V. Sridhar and Prof. T. K. Srikanth from IIT-Bangalore.

November 6, 2023: 'Evolution of Data Privacy Law in India' by Hon. Justice B. N. Srikrishna.

November 13, 2023: 'Revisiting the Efficiency of Asynchronous MPC with Optimal Resilience Against General Adversaries' by Prof. Ashish Choudhury, IIT-Bangalore.

January 8, 2024: 'Platform work in developing economies: Can digitalisation drive structural transformation?' by Dr. Uma Rani, Senior Economist, International Labour Office.

February 5, 2024: 'Vector and Floating point architectures to accelerate ML inference on FPGAs' by Prof. Nanditha Rao, IIT-Bangalore.

February 12, 2024: 'Collaboratively building an assistive technology ecosystem for accessible education of children with visual impairment' by Dr. Manohar Swaminathan, Microsoft Research India, Ms. Supriya Dey, Vision Empower and Prof. Amit Prakash, IIT-Bangalore.

February 19, 2024: 'The changing climate & ocean carbon sinks: windows into the past & the future' by Prof. B. Ashok, IIT-Bangalore.

February 26, 2024: 'AutoGrow- An Autonomous Greenhouse System for Precision Agriculture' by Prof. Ramesh Kestur, IIT-Bangalore and Dr. Chenna Reddy Aswath, IIHR, Bangalore.

March 4, 2024: 'Topological Analysis of 3D-Helicity Rotating HD Turbulent Flows' by Prof. Shivakumar Malapaka, Prof. Amit Chattopadhyay and R. Yashwanth, IIT-Bangalore.

March 18, 2024: 'Privacy-Preserving Plagiarism Checking' by Nidhish Bhimrajka, Prof. Sujit Chakrabarti, Prof. Ashish Choudhury & Supreeth Varadarajan, IIT-Bangalore.

April 11, 2024: 'Machine Learning Approaches to The Interpretation of Spatial Imaging & Transcriptomics for Personalized Medicine' by Prof. Arvind Rao, University of Michigan.

IIIT-B'S ACHIEVEMENTS



September 15, 2023

IIIT-Bangalore Conferred 'Green University Award 2023' at NYC Green School Conference



IIIT-Bangalore proudly accepted the esteemed 'Green University Award 2023' at the 7th NYC Green School Conference held in New York on September 15, 2023. Mr. Udaya Hegde, IIIT-B Governing Body Member and Alumni of IIIT-Bangalore, graciously received the award on behalf of the entire IIIT-Bangalore campus community.

IIIT-Bangalore's outstanding commitment in developing the campus into a green and sustainable campus environment shone brightly amid the vibrant atmosphere of the 78th session of the United Nations General Assembly. The institution's proactive measures to combat "3W" pollutions (weather, water & waste) and championing eco-conscious practices have set a global standard for educational institutions.

February 2024

IIIT-B's MOSIP Recognized Globally with UNDP's Future of the Government Award to Philippines' Government

In February, the Philippines was honored with the Future of Government Award for 2023 for its innovative open-source adaptation of IIIT-B's Modular Open Source Identity Platform (MOSIP). The prestigious accolade was presented by the United Nations Development Programme (UNDP) in collaboration with the Public Digital and AWS Institute.

The award recognized the Philippines' use of MOSIP to enhance its digital governance infrastructure, demonstrating the platform's versatility and impact on public service delivery. The recognition underscores IIIT-Bangalore's significant contribution to global e-governance through its development of MOSIP, further establishing its role in digital public infrastructure.

May 2024

IIIT-B's MOSIP Awarded WSIS Champion Title

IIIT-Bangalore's MOSIP (Modular Open Source Identity Platform) which is an independent project developed by IIIT-B similar to AADHAR, has received the WSIS champion award in the e-governance category at the World Summit on International Society in Geneva, held from May 27th to 31st, 2024. The award was recognized by the International Telecommunication Union (ITU) for its outstanding contribution towards strengthening the implementation of the World Summit on Information Society (WSIS) Outcomes.



Mr. Nagarajan Santhanam, Chief Dissemination Officer, MOSIP received the award from Mr. Doreen Bogdan-Martin, ITU Secretary-General, in Geneva. The accolade testifies to the MOSIP team’s dedication to creating inclusive and empowering ID systems.

June 28, 2024

IIIT-B Won Silver Trophy at the ELCITA Sustainability Awards

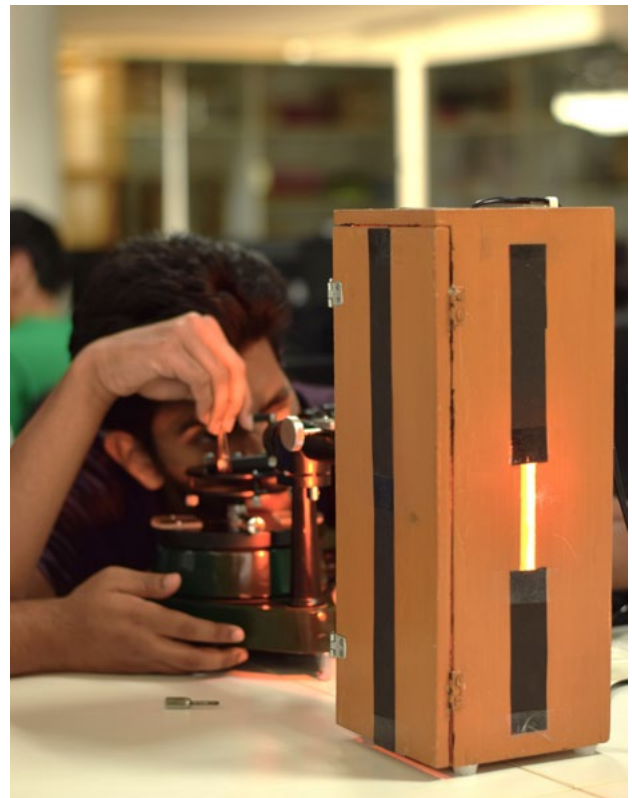


IIIT-Bangalore’s commitment to sustainable living has always been a prominent aspect of its identity. This dedication was officially recognized on June 28, 2024, when IIIT-B received the Silver Trophy at the ELCITA Sustainability Awards for the 2023-2024 period. The accolade highlighted the institute’s consistent efforts in promoting and implementing eco-friendly practices within its campus and beyond. The award is a testament to IIIT-B’s proactive approach to sustainability, reflecting its leadership in environmental stewardship and its influence in encouraging a culture of sustainability in the academic and technological sectors.

July 2024

IIIT-B’s Role in Tele-MANAS Project Helped Reach Over 10 Lakh Calls

A collaboration between IIIT-Bangalore’s E-Health Research Centre and NIMHANS with IIIT-B as the technical partner, resulted in a significant achievement. The Tele-MANAS project, an initiative by the Ministry of Health, Government of India, aimed at providing tele-mental health services to remote areas has successfully managed over 10 lakh calls. This milestone was a testament to IIIT-B’s dedication to empowering minds and transforming lives.



FACULTY ACHIEVEMENTS



August 2023

Prof. V Sridhar completed the project on 'Formulating a Regulatory Response to 5G' (Co PI: Prof. Rohit Prasad, MDI) funded by the Vodafone Idea Centre for Telecom (InViCT) and presented the findings in a public forum as well as to the Secretary, Department of Telecommunications, Government of India.

September 2023



Dr. Dinesh Babu, Associate Professor received the prestigious National Teachers Award 2023 on September 5 from the Ministry of Education. The award was given by the President of India to 13 Professors from Higher Education Institutes across the country. Fifty school teachers also received the award. The honor includes a silver medal, certificate and a cash prize. The Prime Minister of India, Shri Narendra Modi interacted with the awardees and motivated them. The Education minister hosted a dinner for all the awardees.

Prof. Balaji Parthasarathy and Prof. Janaki Srinivasan were awarded a research grant by the Australia India Institute, University of Melbourne, to study Work from anywhere: Accessing Indian tech talent. The research will investigate work from anywhere options for firms seeking to source, retain, and manage talent from

an increasingly competitive global STEM (Science, Technology, Engineering, Management) talent pool. While the skills shortage in STEM is a global issue, the research will focus on accessing skills from India and the role that governments and firms should play in facilitating this mode of work.

October 2023

Prof. Preeti Mudliar and the team of M.Sc. Digital Society students Vidhi Doshi, Pranshu Anand, Arushi Preet Kaur along with i-MTech Student Sai Murali Jayam contributed significantly to the Samsung PRISM program, working on the 5G Hotspot Sharing project.

Their work earned the coveted 'Excellent' status, along with a cash reward of ₹. 86,400. This achievement stemmed from the dedicated work by the team during February 2023 to April 2023, during which they explored mobile data-sharing behaviors through hotspot usage. Their comprehensive fieldwork provided invaluable user experience insights and design recommendations to the Samsung Design team.

December 2023



Prof. Amit Prakash received the Marichi award from Shri Ramesh Pokhriyal, former Union Education

Minister, in New Delhi on December 16. Prof. Amit, who served as the Convener of IIIT-B's Centre for Accessibility in the Global South (CAGS) was recognized and bestowed with Marichi Award for his dedication, commitment and tireless efforts in the realm of accessible education for visually impaired by the Indirapuram Group of Institutions.

January 2024

Prof. Ishu Gupta received Distinguished PC Member Award - Research Track from CODS-COMAD 2024, at 7th Joint International Conference on Data Science & Management of Data (11th ACM IKDD CODS and 29th COMAD), held during January 4-7, 2024.

Prof. Jaya Sreevalsan Nair has been felicitated with IEEE Bangalore Section Chair's Recognition plaque for "her exceptional leadership and unwavering commitment to strengthening the IEEE GRSS Bangalore Chapter with quality programs including InGARSS" at the Section AGM on January 07, 2024.

February 2024



Prof. Debabrata Das, Director IIIT-Bangalore was selected as Chairman of the IEEE India Council for 2024, marking his second consecutive year.

Selected by the IEEE Nomination Committee, his appointment highlighted his exceptional leadership and expertise.

Prof. Nanditha Rao was awarded the 2023-2024 Fulbright-Nehru Academic and Professional Excellence Fellowship (FNAPE).

March 2024

Prof. Ashish Choudhury's solo-authored paper got published in Theoretical Computer Science journal, an esteemed CORE A-ranked journal! It's a full version

of his ICDCN 2023 paper, focusing on designing a randomized asynchronous consensus protocol in the non-threshold adversary model.

Prof. Jaya Sreevalsan Nair was selected as the Associate Editor of the IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS).

April 2024

Prof. Ashish Choudhury was chosen as a speaker for the ACM India Eminent Speaker Program (ESP) for a duration of two years. The ESP connects the local ACM Professional and Student chapters in India with leading technology experts and innovators who delivered talks on significant topics in the computing field. The focus of his talks was on secure distributed computing.

June 2024



Prof. Jaya Sreevalsan Nair received the 2024 Practitioner Grant for Geospatial Work by the Women in GIS (WiGIS) Awards and Scholarships

Program. WiGIS Awards recognize the contributions of women to geospatial fields. The scholarships provide funds for education expenses to undergraduate and graduate students and seed grants for women in the professional or academic sectors to support projects and research in a myriad of geospatial areas.

July 2024



Prof. Meenakshi D'Souza was elected as the President of ACM India. Her contributions as the former Secretary cum Treasurer include several activities of ACM India that span education, research and DEI initiatives.

GUEST VISITORS



August 7, 2023



A delegation from the World Health Organization (WHO) visited IIIT-Bangalore. During their visit, the team engaged in various activities including meetings with faculty members, researchers and administrators of IIIT-Bangalore.

August 17, 2023



Mr. Paul Scully, Member of Parliament and Minister for Technology and the Digital Economy, UK along with his team, visited the IIIT-Bangalore campus. The purpose of their visit was to explore the innovative initiatives and technological advancements being undertaken at IIIT-Bangalore.

September 20, 2023

Mr. Liam Maxwell, the Director of Government Services at Amazon Web Services (AWS), paid a visit to the IIIT-Bangalore campus. During his time on campus, Mr. Maxwell engaged in discussions with faculty members, researchers and students, exploring avenues for collaboration and innovation.



October 20, 2023



Vice Admiral Puneet K Bahl, AVSM, VSM Commandant, Indian Naval Academy, visited IIIT-B on October 20, 2023. During his visit, he interacted with the Director, faculty, students, startups and research scholars.

November 7, 2023



Dr. Tulika Pandey, Scientist 'G' Senior Director, Ministry of Electronics & Information Technology, Government of India.

November 10, 2023



Prof. Shay Kutten, computer scientist from University of Toronto.

November 13, 2023



A team from Korean German Institute of Technology (KGIT)

November 27, 2023



A delegation from MCIT Indonesia visited IIIT-B on November 27 to discuss the opportunities to strengthen and extend an ongoing collaboration.

November 30, 2023



A high level delegation from Taiwan visited IIIT-Bangalore for a possible collaboration and partnership with the institute.

December 8, 2023



IIIT Bhubaneswar faculty team visited IIIT-Bangalore campus.

January 16, 2024

A delegation from Novo Nordisk visited IIIT-Bangalore to explore potential partnerships.



January 23, 2024



A delegation from Germany paid a visit to IIIT-B Campus for exploring opportunities for potential collaborations.

March 14, 2024



A delegation from Norway visited IIIT-Bangalore to explore opportunities for research and collaboration.

March 14, 2024



Prof. Philip M Nichols from The Wharton School, University of Pennsylvania

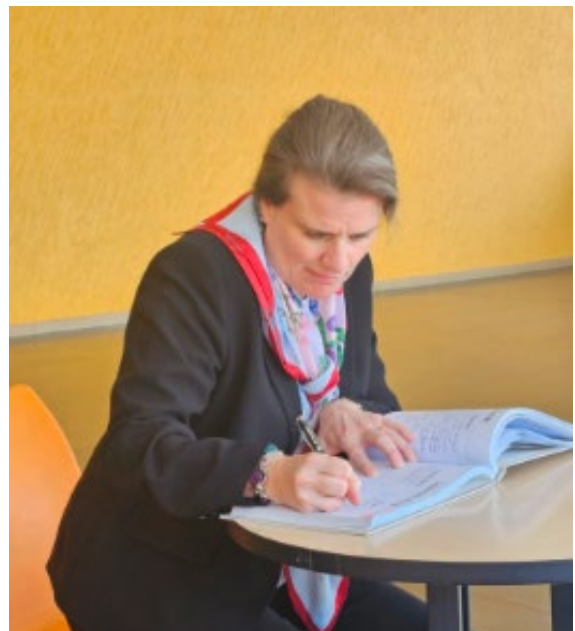
March 21, 2024

The Vice-Chancellor of Australian Catholic University



(ACU) and senior faculty members paid a visit to IIIT-Bangalore to explore the potential research and innovation partnerships between ACU and IIIT-B. The visit fostered discussions on specific collaboration opportunities aligned with mutual interests and expertise.

March 25, 2024



Dr. Martina Hirayama, the Swiss State Secretary for Education, Research and Innovation, along with her team, visited IIIT-Bangalore to observe the MOSIP demonstration at the MOSIP Experience Centre.

April 25, 2024



A delegation from the German Society for International Collaborations (GIZ) visited the IIIT-Bangalore campus with the prospect of international partnerships and collaborations.

May 10, 2024



Mr. Ronnie Screwvala, Chairperson and Co-Founder of UpGrad, visited IIIT-Bangalore to discuss UpGrad's operations as part of the institute's ongoing Continuing Professional Education programme.

May 24, 2024

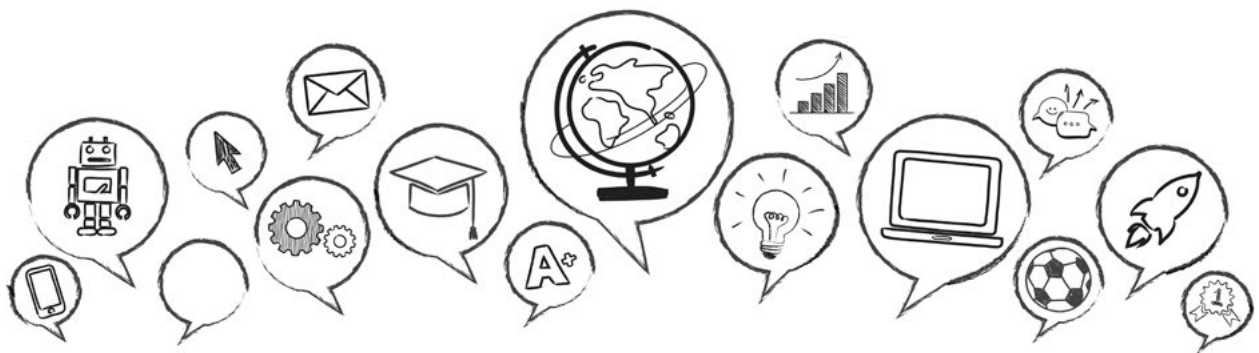


Mr. Nouredine Boutayeb (Ex-Minister of Interior, Morocco) paid a visit to IIIT-Bangalore. Presentations were made by Centre for DPI and OpenG2P followed by a visit to the MOSIP Experience Centre.

June 27, 2024



The Bill & Melinda Gates Foundation team, which collaborates with IIIT-Bangalore, visited the campus to strengthen their partnership. During the visit, they examined the ongoing projects, discussed future initiatives, and identified opportunities for deeper collaboration in research and innovation.





International
Institute of Information
Technology Bangalore

10

IIIT-B MoUs





September 23, 2023

MoU Signed between IIIT-B and SAP Labs



IIIT-Bangalore and SAP Labs India entered into a Memorandum of Understanding (MoU) to bolster the exchange of knowledge between academia and the enterprise sector. The MoU emphasizes the partnership in conducting joint research on specific industrial topics and challenges which will contribute to ongoing skill development in niche technology areas.

October 10, 2023

MoU between IIIT-B and Toshiba Software (India)



IIIT-Bangalore signed a Memorandum of Understanding (MoU) with Toshiba Software (India) Private Limited (TSIP) to support the research project on “Zero Touch Security in Network for 5G and Beyond Systems”. A Zero Touch Network (ZTN) would help make the emerging digital society a safe place by having near-zero human intervention as well as meeting real time and dynamic requirements from different user applications which use virtualized network functions.

November 14, 2023



An MoU was signed between Software Development Institute (SDI) of the Indian Air Force (IAF) and IIIT-Bangalore for a strategic partnership to drive research and development activities, encouraging the creation of innovative products and processes.

February 13, 2024

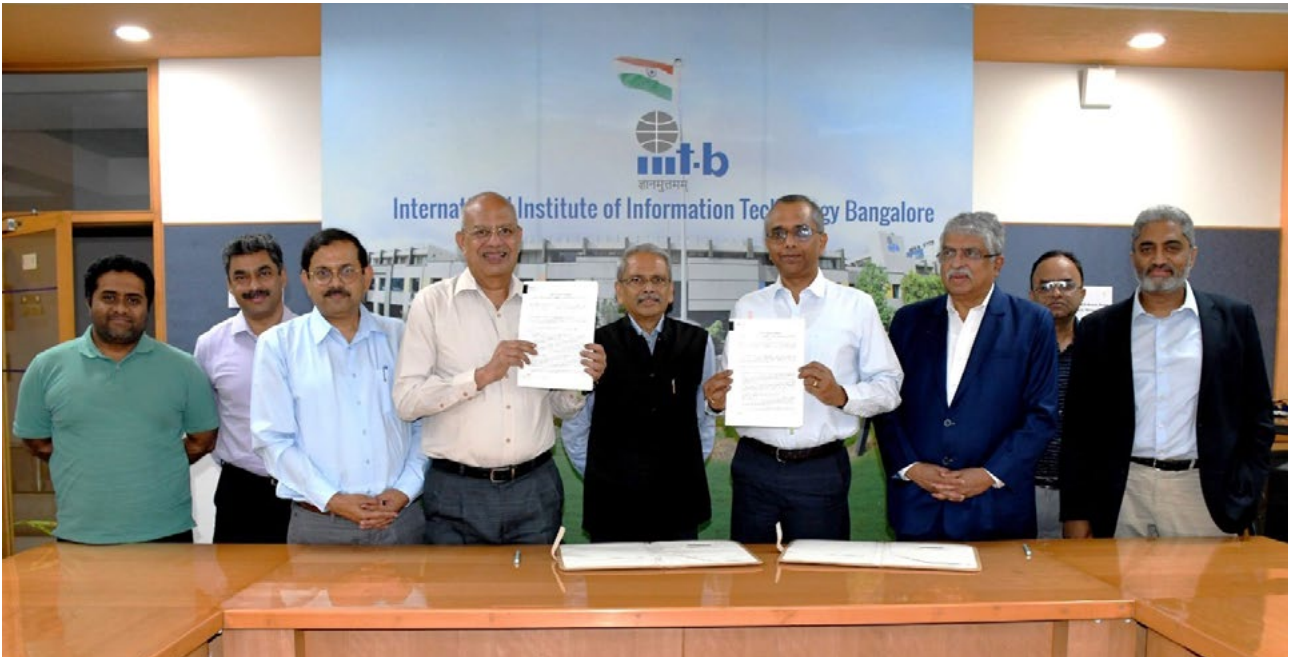
NIMHANS and IIIT-Bangalore MoU



NIMHANS and IIIT-Bangalore sealed a collaborative pact, embarking on a joint venture in the realms of Information Technology and Neurosciences. Captured in this frame are Prof. Debabrata Das, Director IIIT-B and Prof. Pratima Murthy, at the helm of NIMHANS, alongside Profs. T K Srikanth and Jaya Sreevalsan Nair, accompanied by esteemed faculty members from NIMHANS. This MoU heralded a new era of collaborative exploration, delving into avant-garde frontiers of IT and neuroscience research.

April 30, 2024

MoU with EkStep Foundation to establish Centre for Open Societal Solutions (COSS)



IIIT-Bangalore and Ekstep Foundation signed an MOU on April 30, 2024 to collaborate in the establishment of the Centre for Open Societal Systems. The center was established with the mission of addressing global and domestic challenges by promoting and utilizing open-source digital building blocks that drive societal transformation. Through this Center, IIIT-B, with its expertise in developing DPGs such as MOSIP and its global adoption and the Ekstep Foundation, as the creator, implementer, operator, and maintainer of several population-scale DPIs/DPGs, came together to contribute to and grow the digital public goods discourse, ecosystem, and solutions.

July 18, 2024

MoU Between IIIT-Bangalore and IIIT Surat



An MoU was signed between IIIT-Bangalore and IIIT-Surat to facilitate student exchanges for the Summer Research Internship Program (SRIP), semester-long study opportunities for students at the partner institute, and research collaboration for faculty. The agreement also included other academic and research collaborations in areas of mutual interest, subject to necessary approvals.

11

FINANCIALS



31-March-2024

31-March-2023

INCOME

Tuition Fees | Interest on Bank Deposits | Hostel and Facility Fees | Academic Activities
Other Receipts | Overheads on Sponsored Projects | MIT Mentoring Income

1,95,51,23,013

1,97,99,73,142



EXPENDITURE

(before depreciation)

Faculty & Staff Expenses | Student Expenses | Academic Expenses
Infrastructure Expenses | Administrative & General Expenses
MIT Project Expense

1,31,28,77,205

1,34,23,68,028



SOURCE OF FUNDS

Capital Grants | Corpus Account | General Fund
Research Grants | Grants for Scholarship | Grants for Travel
Chair Professorship | Endowment funds
Designated/Earmarked Funds

3,48,78,76,036

3,10,64,66,829



APPLICATION OF FUNDS

Fixed Assets | Net Current Assets

3,48,78,76,036





3,10,64,66,829



in INR

International Institute of Information Technology - Bangalore
26/C, Electronics City, Hosur Road, Bangalore - 560 100
Balance Sheet as at 31st March 2024

(Amount in Rs.)

Particulars	Sch.No.	As at 31-03-2024	As at 31-03-2023
SOURCES OF FUNDS			
Unrestricted Funds:			
Capital Grants	A	28,37,00,000	28,37,00,000
Corpus Account	B	1,12,42,15,906	1,06,71,68,412
General Fund	C	1,71,07,45,280	1,19,72,10,177
		3,11,86,61,186	2,54,80,78,589
Restricted Funds:			
Research Grants	DA	29,43,71,122	48,73,88,716
Grants for Scholarship	DB	2,37,89,489	2,56,34,751
Grants for Training	DC	33,626	33,626
Chair Professorship	EA	2,30,50,798	2,52,88,641
Endowment funds	EB	37,74,323	37,89,440
Designated/Earmarked Funds	EC	2,41,95,492	1,62,53,066
		36,92,14,850	55,83,88,240
Total		3,48,78,76,036	3,10,64,66,829
APPLICATION OF FUNDS			
Property, Plant and Equipment:			
Property, Plant and Equipment	F	1,17,78,66,385	50,66,46,517
Current Assets, Loans & Advances:			
Advances & Receivables	G	9,31,00,909	10,45,74,825
Loans and Advances	H	1,07,31,465	88,96,119
Cash and cash equivalents	I	2,48,30,92,950	2,68,79,65,651
MIT Project Current Assets	W1	1,01,49,077	1,01,49,077
		2,59,70,74,401	2,81,15,85,672
Less : Current Liabilities & Provisions:			
Current Liabilities	J	20,43,55,315	14,70,46,691
Provisions	K	8,27,09,435	6,47,18,669
		28,70,64,750	21,17,65,360
Net Current Assets		2,31,00,09,651	2,59,98,20,312
Total		3,48,78,76,036	3,10,64,66,829
Summary of significant accounting policies	X		
The accompanying notes are an integral part of the Financial Statements.			
As per our report of even date			
For Guru & Jana			
Chartered Accountants			
ICAI Firm Registration No.006826S		For International Institute of Information Technology Bangalore	
			
Heena Kauser A P Partner		Prof. Debrata Das Director	
Membership No.: 219971 UDIN: 24219971BKLTF5981			
Place: Bangalore Date: 07/08/2024		Place: Bangalore Date: 07/08/2024	

International Institute of Information Technology - Bangalore
26/C, Electronics City, Hosur Road, Bangalore - 560 100
Income and Expenditure Account for the year ended 31st March 2024

(Amount in Rs.)

Particulars	Sch.No.	For the year ended 31-03-2024	For the year ended 31-03-2023
INCOME			
Tuition Fees	L	1,51,62,43,229	1,65,86,45,546
Interest on Bank Deposits	M	14,70,94,829	9,25,98,304
Hostel and Facility Fees	N	7,71,62,294	6,82,14,949
Academic Activities	O	7,75,81,868	5,74,01,602
Other Receipts	P	7,51,03,806	6,51,48,321
Overheads on Sponsered Projects	Q	5,70,47,494	3,53,11,566
MIIT Mentoring Income	W2	48,89,493	26,52,853
	(I)	1,95,51,23,013	1,97,99,73,142
EXPENDITURE			
Faculty & Staff Expenses	R	28,30,78,120	25,98,85,002
Academic Expenses	S	85,66,67,379	92,54,33,582
Student Expenses	T	1,85,97,374	1,87,60,455
Infrastructure Expenses	U	8,10,27,914	7,17,19,283
Administrative & General Expenses	V	7,19,06,119	6,63,06,983
MIIT Project Expense	W3	16,00,300	2,62,723
Excess of Income before depreciation & appropriation	(II)	1,31,28,77,205	1,34,23,68,029
Excess of Income before depreciation & appropriation	III=(I-II)	64,22,45,808	63,76,05,113
Less: Depreciation and amortization expense	F	6,31,89,093	6,05,94,113
Excess of Income before appropriation	IV	57,90,56,715	57,70,11,000
Appropriation: Transferred to Corpus Fund		5,70,47,494	3,53,11,566
Appropriation: Student Benevolent Fund		84,74,118	57,02,215
Surplus/ (Deficit) for the year transferred to General Fund		51,35,35,103	53,59,97,219
Summary of significant accounting policies	X		

The accompanying notes are an integral part of the financial statements.

As per our report of even date

For Guru & Jana

Chartered Accountants

ICAI Firm Registration No.006826S

Heena Kauser A P

Heena Kauser A P
Partner

Membership No.: 219971

UDIN:24219971BKCLTF5981

Place: Bangalore

Date: 07/08/2024



**For International Institute of Information Technology
Bangalore**

Debabrata Das

Prof. Debabrata Das

Director



Place: Bangalore

Date: 07/08/2024



International
Institute of Information
Technology Bangalore

12

INFRASTRUCTURE





August 21, 2023

Inauguration of Enhanced Gym Facilities



An array of new gym equipments, including a cable fly, dumbbell rack, shoulder press machine, chest press machine, power squat rack, preacher curl machine, lateral raise machine, t-bar rowing machine, seated calf raise machine, hack squat machine, pec/dec fly machine, and additional incline/decline and flat benches are installed at the previously existing gym facility, making the gym more functional. The upgraded facility was inaugurated by Director Prof. Debabrata Das, along with Registrar Commodore SR Sridhar (Retd), Sports Officer Dr. Neha Arora, Men's Gymnasium Trainer Mr. Girish Govind K, and students of IIIT-B.

January 22, 2024

Bhoomi Pooja of IIIT-B East Campus



A significant milestone was achieved by IIIT-Bangalore on January 22 as Prof. Debabrata Das, the Director, along with his wife, Dr. Mahua Das, laid the foundation stone for the expansion of the campus. This extension, located in Chikkanamangala Village, Sarjapur Hobli, at a distance of 2.5 kilometers from the current campus marked beginning of a new chapter in IIIT-B's journey.

The auspicious occasion was marked by a traditional Bhoomi Pooja conducted at the site, symbolizing the commencement of construction for the IIIT-B East Campus. The presence of our Chairman, Mr. Kris Gopalakrishnan added significance to this historic moment.

February 5, 2024

Inauguration of COMET Lab



IIIT-B COMET Foundation inaugurated a new lab to serve as a training room to upskill students and professionals on various aspects of Advanced Communication Systems (ACS). It was a step towards advancing the country's tech rally to a flourishing domestic telecom OEM sector and training future generations of telecom engineers to elevate the nation to greater heights. Since its inauguration, the lab facilities was utilized by IIIT-B faculty to train officers of the Indian Air Force in Wireless Communication systems.

February 15, 2024

Inauguration of Staying facilities for Mess staff



On February 15, our Director, Prof. Debabrata Das, inaugurated a new staying facility for the mess staff. This initiative marks an important step towards enhancing the well-being and convenience of the essential personnel who contribute to the smooth functioning of the institute's mess facilities.

February 29, 2024

Inauguration of Electric Charging Stations

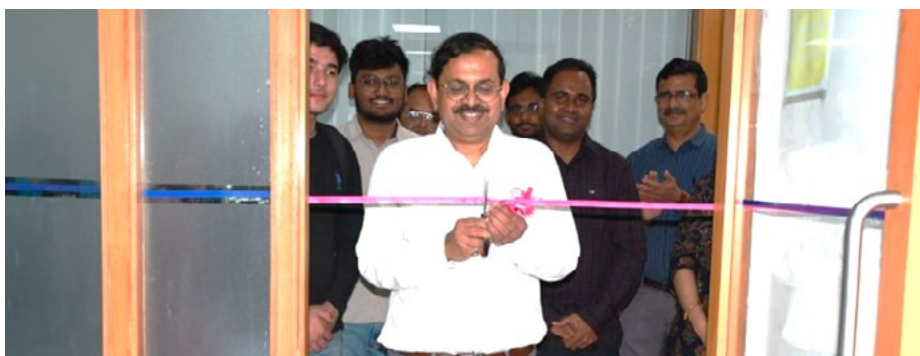
IIIT-Bangalore installed BOLT.EARTH electric vehicle charging stations on its premises, reflecting a response to the increasing adoption of green vehicles. The inauguration of these stations by our Director, Prof. Debabrata Das, alongside Registrar, Commodore SR Sridhar (Retd), CAO, Mr. Jagadish Patil, CFO Mr. S. Piramanayagam, faculty and staff members marks a imperative step towards promoting sustainable transportation. The charging

station comprises three Bolt Lite 3.3KW charging points with a versatile 3-pin universal socket, catering to both two and four-wheeler vehicles. Additionally, a Level 2, 7.5 KW charging point equipped with a charging gun is available for four-wheeler vehicles further enhancing the accessibility and convenience of electric vehicle charging.



April 17, 2024

Inauguration of VLSI Lab



IIIT-Bangalore inaugurated a state-of-the-art VLSI laboratory, equipped with advanced hardware and software for designing, prototyping, and testing integrated circuits. This lab provides a platform for students, researchers, and faculty to engage in hands-on VLSI design and experimentation.

April 17, 2024

Inauguration of CPE Office Space

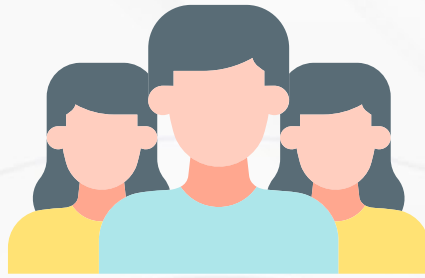


Prof. Debabrata Das, the Director of the institute, accompanied by Prof. V Sridhar, marked the inauguration of the renovated CPE (Continuing Professional Education) office space.



International
Institute of Information
Technology Bangalore

13 PEOPLE



FACULTY MEMBERS



Prof Amit Chattopadhyay
Ph.D. (University of Groningen)



Prof Amit Prakash
FPM (IIM Bangalore)



Prof Amrita Mishra
Ph.D. (IIT Kanpur)



Prof Ananda Y R
Ph.D. (IIT Guwahati)



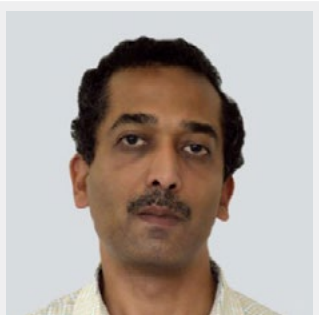
Prof Ashish Choudhury
Ph.D. (IIT Madras)



Prof Badrinath Ramamurthy
Ph.D. (Rensselaer Polytechnic
Institute, NY USA)



Prof Balaji Parthasarathy
Ph.D. (University of California
Berkeley)



Prof Balakrishnan Ashok
Ph.D. (University of
Massachusetts Amherst)



**Prof Chandrashekar
Ramanathan**
Ph.D. (Mississippi State
University)



Prof Debabrata Das
Ph.D. (IIT Kharagpur)



Prof Dinesh Babu Jayagopi
Ph.D. (École Polytechnique
Fédérale de Lausanne)



Prof G Srinivasaraghavan
Ph.D. (IIT Kanpur)



Prof Janaki Srinivasan
Ph.D. (University of California
Berkeley)



Prof Jaya Sreevalsan Nair
Ph.D. (University of California
Davis)



Prof Jyotsna Bapat
Ph.D. (Pennsylvania State
University)



Prof Kurian Polachan
Ph.D. (IISc Bangalore)



Prof Madhav Rao
Ph.D. (University of Alabama)



Prof Manisha Kulkarni
Ph.D. (IISc Chennai)



Prof Meenakshi D'Souza
Ph.D. (IISc Chennai)



Dr Milind Gandhe
Ph.D. (IIT Bombay)



Prof Nanditha Rao
Ph.D. (IIT Bombay)



Prof Pradeesha Ashok
Ph.D. (IISc Bangalore)



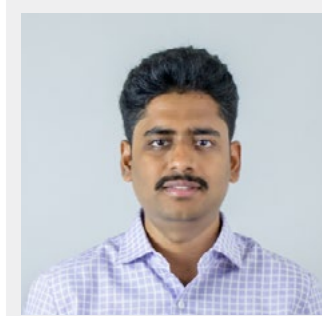
Prof Preeti Mudliar
Ph.D. (University of Texas at Austin)



Prof Prem Singh
Ph.D. (IIT Kanpur)



Prof Priyanka Das
Ph.D. (IISc Bangalore)



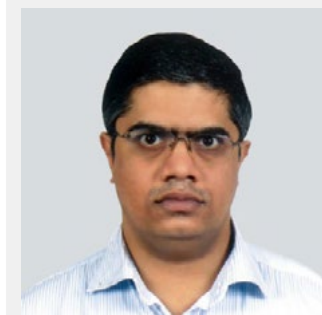
Prof Raghuram Bharadwaj
Ph.D. (IISc Bangalore)



Prof Sachit Rao
Ph.D. (Ohio State University)



Prof Sakshi Arora
Ph.D. (Stanford University)



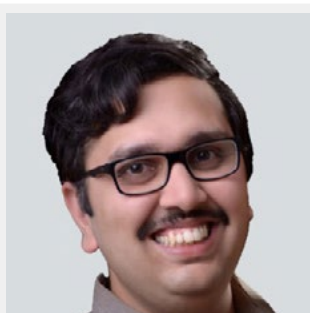
Prof Shiva Kumar Malapaka
Ph.D. (Universitat Bayreuth)



Prof Shrisha Rao
Ph.D. (University of Iowa)



Prof Srinath Srinivasa
Ph.D. (Brandenburg Technical University Cottbus)



Prof Srinivas Vivek
Ph.D. (University of Luxembourg)



Prof Subir Kumar Roy
Ph.D. (IIT Bombay)



Prof Sujit Kumar Chakrabarti

Ph.D. (IISc Bangalore)



Prof Sushree Sangeeta Behera

Ph.D. (IIT Bhubaneswar)



Prof T K Srikanth

Ph.D. (Cornell University)



Prof Thangaraju B

Ph.D. (Bharathidasan University)



Prof Uttam Kumar

Ph.D. (IISc Bangalore)



Prof V Ramasubramanian

Ph.D. (TIFR Bombay)



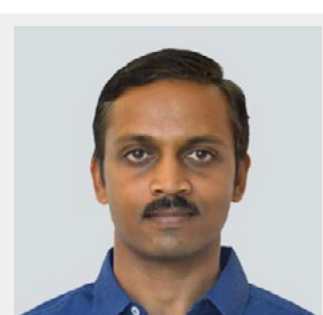
Prof V N Muralidhara

Ph.D. (IIT Delhi)



Prof V Sridhar

Ph.D. (University of Iowa)



Prof Vinod Veera Reddy

Ph.D. (Nanyang Technological University Singapore)



Prof Vinu E Venugopal

Ph.D. (IIT Madras)



Prof Viswanath Gopalakrishnan

Ph.D. (Nanyang Technological University Singapore)

IIIT-BANGALORE'S NEW DEPARTMENTAL HEADS



IIIT-Bangalore is embarking on a transformative journey by transitioning from a unitary department to a multi-department structure, aligning with its growth trajectory and the vision outlined in the National Education Policy (NEP) 2020. For the first time, IIIT-Bangalore has appointed new Heads of Department for its four academic branches Computer Science & Engineering (DCSE), Electronics Communication & Engineering (ECE), Data Science & Artificial Intelligence (DSAI), and Digital Humanities and Societal Systems (DHSS).

This strategic move is designed to enhance academic leadership and foster a forward-thinking educational environment. By appointing new Heads of Department, IIIT-Bangalore aims to introduce fresh perspectives and innovative ideas within each department. Recognizing the rapid technological advancements and the growing significance of inter/multi-disciplinary studies, the institute seeks dynamic leadership to effectively navigate these changes. The new Heads with a term of three years, are entrusted with the responsibility to drive curriculum development, foster cutting-edge research, and strengthen industry collaborations, ensuring that IIIT-Bangalore remains at the forefront of academic excellence and innovation.



Prof Meenakshi D'Souza

Prof. Meenakshi D'Souza is appointed as the Head of the Department for Computer Science & Engineering (DCSE).



Prof Madhav Rao

Prof. Madhav Rao was appointed to lead the Department of Electronics and Communication Engineering (ECE).



Prof. Dinesh Babu Jayagopi

Prof. Dinesh Babu Jayagopi is appointed as the new Head of the Department for Data Science and Artificial Intelligence (DSAI).



Prof Amit Prakash

Prof. Amit Prakash is appointed to serve as the Head of the Department for Digital Humanities and Societal Systems (DHSS).

DOMAIN-WISE FACULTY MEMBERS

Computer Science Faculty

- ▶ Prof. Amit Chattopadhyay
- ▶ Prof. Ashish Choudhury
- ▶ Prof. Badrinath Ramamurthy
- ▶ Prof. Meenakshi D'Souza
- ▶ Prof. Pradeesha Ashok
- ▶ Prof. Raghuram Bharadwaj
- ▶ Prof. Sachit Rao
- ▶ Prof. Shrisha Rao
- ▶ Prof. Srinivas Vivek
- ▶ Prof. V N Muralidhara

Networking, Communication & Signal Processing Faculty

- ▶ Prof. Amrita Mishra
- ▶ Prof. Debabrata Das
- ▶ Prof. Dinesh Babu Jayagopi
- ▶ Prof. Jyotsna Bapat
- ▶ Prof. Prem Singh
- ▶ Prof. Priyanka Das
- ▶ Prof. Sushree Sangeeta Behera
- ▶ Prof. V Ramasubramanian
- ▶ Prof. Vinod Veera Reddy

Software Engineering Faculty

- ▶ Prof. Chandrashekar Ramanathan
- ▶ Prof. Meenakshi D'Souza
- ▶ Prof. Sujit Kumar Chakrabarti
- ▶ Prof. Thangaraju B

Mathematics & Basic Sciences Faculty

- ▶ Prof. Balakrishnan Ashok
- ▶ Prof. Manisha Kulkarni
- ▶ Prof. Shiva Kumar Malapaka

Data Sciences Faculty

- ▶ Prof. Amit Chattopadhyay
- ▶ Prof. Chandrashekar Ramanathan
- ▶ Prof. Dinesh Babu Jayagopi
- ▶ Prof. Jaya Sreevalsan Nair
- ▶ Prof. Raghuram Bharadwaj
- ▶ Prof. Srinath Srinivasa
- ▶ Prof. Sushree Sangeeta Behera
- ▶ Prof. T K Srikanth
- ▶ Prof. Uttam Kumar
- ▶ Prof. V Ramasubramanian
- ▶ Prof. Vinu E Venugopal
- ▶ Prof. Viswanath Gopalakrishnan

VLSI Systems Faculty

- ▶ Prof. Kurian Polachan
- ▶ Prof. Madhav Rao
- ▶ Prof. Nanditha Rao
- ▶ Prof. Subir Kumar Roy
- ▶ Prof. Sakshi Arora
- ▶ Prof. Ananda Y R

Information Technology & Society Faculty

- ▶ Prof. Amit Prakash
- ▶ Prof. Balaji Parthasarathy
- ▶ Prof. Janaki Srinivasan
- ▶ Prof. Preeti Mudliar
- ▶ Prof. V Sridhar

KEY OFFICIALS



Prof Debabrata Das
Director, IIIT-B



Prof Chandrashekar Ramanathan
Professor & Dean (Academics)



Prof Shrisha Rao
Professor & Dean (Faculty)



Prof Srinath Srinivasa
Professor & Dean (R&D)



Prof Manisha Kulkarni
Professor, Dean (Student Affairs)



Cmde SR Sridhar (Retd)
Registrar, IIIT-B - Secretary to the Board and Outreach Head



J P Patil
Chief Administration Officer



S Piramanayagam
Chief Finance Officer



Prof S S Prabhu
Faculty Advisor



Prof Meenakshi D'Souza

Professor, Head of the
Department of Computer
Science and Engineering (CSE)



**Prof Dinesh Babu
Jayagopi**

Associate Professor, Head of the
Department of Data Science and
Artificial Intelligence, Faculty-in-
charge Placement and Internship



Prof Madhav Rao

Associate Professor, Head of the
Department of Electronics and
Communication Engineering
(ECE)



Prof Amit Prakash

Professor and Head of the
Department of Digital Humanities
and Societal Systems (DHSS)



Prof Sachit Rao

Associate Professor, Faculty-in-
charge Student Exchange



Prof Nanditha Rao

Assistant Professor & Warden
(Women's Hostel)



**Prof Shiva Kumar
Malapaka**

Assistant Professor & Warden
(Men's Hostel)



Prof Uttam Kumar

Assistant Professor & Warden
(Men's Hostel)



Prof Amrita Mishra

Assistant Professor & Associate
Warden (Women's Hostel)



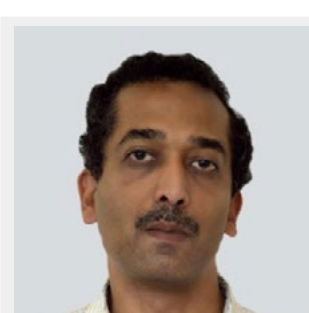
Prof T K Srikanth

Professor & Faculty-in-charge
Computing



Prof V Sridhar

Professor & Faculty In-Charge,
Continuing Professional
Education, Institutional Finance



Prof Balakrishnan Ashok

Associate Professor & Faculty-
in-charge Library



Pradeesha Ashok
Assistant Professor and
Controller of Examinations



Cynthia DMello
Staff Officer- Deans office



M K Durai Murugan
Senior Manager- IT & IS



Cdr JV Prasad (Retd.)
Executive Officer (R&D)



Dr Lakshmi Jagannathan
Executive VP, COMET
Foundation and Chief Executive
Officer, Innovation Centre



Ramadevi S
Librarian and Manager -
Information Services

RESEARCH ADVISORY COMMITTEE (RAC) MEMBERS



Dr. P Satish Chandra

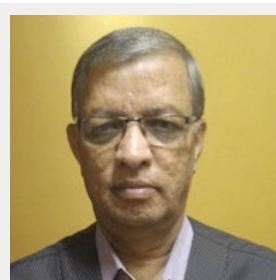


Prof P Balaram



Dr. Manohar Swaminathan

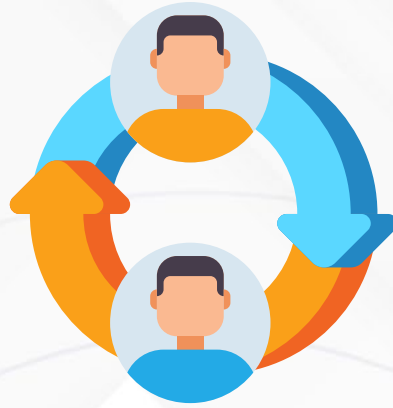
OMBUDSMAN



Dr. K. N. Balasubramanya Murthy,
Vice Chancellor of Dayananda Sagar
University, Bangalore, and Chairman,
Board for IT Education Standards
(BITES) took over as **Ombudsman** of
IIIT-B on February 26, 2020.

14

APPOINTMENTS & ADIEU



WELCOME ON BOARD



Sl. No	Name	Designation	Date of Joining
1	Abhilash A Raikar	Technical Assistant	August 21, 2023
2	Annapoorna GH	Lab Support	September 1, 2023
3	Athira Rajendran	Front Desk Associate / Receptionist	September 6, 2023
4	Priyanka Sharma	Faculty	December 01, 2023
5	Sushree Sangeeta Behera	Assistant Professor	December 04, 2023
6	Dr. Lakshmi Jagannathan	Chief Executive Officer, Innovation Centre	December 06, 2023
7	Manaswi Singha	Junior Placement Coordinator	January 10, 2024
8	Mr. Sridhar Pillalamarri	Chief Executive Officer, COMET Foundation	February 27, 2024
9	Sakshi Arora	Consulting Professor	April 04, 2024
10	Ananda Y R	Assistant Professor	June 03, 2024
11	Tulika Saha	Assistant Professor	July 01, 2024
12	Siva Chetri	Office Assistant	July 01, 2024
13	Ajay Bakre	Professor of Practice	July 10, 2024

ADIEU



Sl. No	Name	Designation	Date of Joining	Date of Leaving
1	Prof. G R Sinha	Adjunct Faculty	April 18, 2022	November 30, 2023
2	Prof. Bidisha Chaudhuri	Assistant Professor	May 13, 2015	December 5, 2023
3	Col Shreenath A	COO, Innovation Center	September 26, 2022	February 2, 2024
4	Dr. Milind Gandhe	Adjunct Faculty & CEO COMET Foundation	February 1, 2022	February 29, 2024
5	Abhilash A Raikar	Technical Assistant	August 21, 2023	April 30, 2024
6	Ishu Gupta	Ramanujan Fellow	February 6, 2023	March 31, 2024
7	Manikandan R R	Assistant Professor	March 27, 2023	May 31, 2024



International
Institute of Information
Technology Bangalore

15

RESEARCH PROJECTS



RESEARCH PROJECTS



IIITB's research focus is to contribute to the IT world by leveraging on education and research, entrepreneurship, and innovation. The research Centers at IIITB are multi-disciplinary with participation from several faculty members from different research domains. They could focus on a vertical, such as healthcare, or a horizontal, such as machine intelligence. These centers, run by faculty and driven by students and staff, have active collaborations with academia, government, and industry.

Following are some of the highly impactful research at IIITB are:



National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS)
Ministry of Science & Technology, Department of Science & Technology, Government of India

ADVANCED COMMUNICATION SYSTEMS Sponsor: Ministry of Science and Technology, GoI

NMICPS - Centre spearheading the activities in the area of Advanced Communication Systems and other domains in the field of Information Technology

Duration: 05 yrs. Funds: 150 crores

Cyber Physical System (CPS) refers to a platform comprising of a mechanical system that is controlled by computer algorithms, and tightly integrated with Internet and to its networked users. Here, the physical-mechanical components represented by smart sensors and actuators, and the software components represented by computing and networking devices are intrinsically intertwined in the platform. Wireless sensors and actuators connected by the Internet-of-Things (IoT) are central to the design of advanced cyber physical systems (CPSs).

Technology Development

- Work on two key problems statements identified by Department of Telecom (DoT)
 - a. Indigenous development of technologies for telecom sector can help in reducing import dependency.
 - b. Technologies can be used to mend the gaps in the 5G communication landscape
- Specific problems picked up by the hub with significant market potential in India and abroad
 - a. Reconfigurable Intelligent Surfaces (Category 1) – to create smart radio environments: corresponding to (b) above
 - b. 5G Advanced Base Station (Category 2) – indigenously built 5G Advanced BTS: corresponding to (a) above

Entrepreneurship

- Entrepreneurship Development Two-pronged strategy
- Work with other funded institutes to spin out technologies developed by our projects into commercial products
- Partner with IITB Innovation Center to develop start-ups addressing 5G use cases
- Verticals being explored: Drones, Agriculture, Health, Rural Education
- Human Resource Development
- Graduate, Post Graduate and Doctoral Fellowships routed through funded projects
- Skill development through weekend workshops
- Skill development through internship

Domain Area	Relation to ACS	Total number of persons trained
5G-NR Physical Layer: Modelling, Technologies and Standards	PHY layer of 5G compliant to 3GPP standards	152
Intelligent Reflecting Surfaces: Fundamentals and Applications	Foundational for 6G	73
Radar Sensing: Fundamentals and Recent Advances	Foundational for 6G, precursor to ISAC	47
LabVIEW and the Basics of the Data Acquisition System	Data acquisition in the context of ACS	30
Overview of Layer 2 & Layer 3 Protocols and Algorithms for Open-RAN-Based 5G Base Station	Scheduler and RRC algorithms in 5G and 5G-Advanced	44
Various Aspects of Quantum Computing	Quantum communication and networks related	74
Ultra-low Power Voltage Reference Circuits	RF front-end related	54

COMET Skill Development Programs

Highlights of the Achievements Commercializable technologies being developed:

1. 5G O-RAN Base Station
2. AI Co-designed 5G hardware and software: Network-in-a-box
3. Prototype for RIS-aided communication
4. Smart Radio Environment deployment for targeted use-cases

Increase in CPS research base: 5G O-RAN Base Station Reconfigurable Intelligent Surfaces:

- | | | |
|---------------------------------|-----------------------|-----------------|
| 1. IIT Hyderabad | 1. IIT Delhi | 6. IIT Roorkee |
| 2. IIIT-Bangalore | 2. IIIT Naya Raipur | 7. IIT Patna |
| 3. IIT Roorkee | 3. IIIT-Bangalore | 8. IIT Bhilai |
| 4. IIT Bhilai | 4. IIT (ISM) Dhanbad | 9. IIT Indore |
| 5. IIIT Naya Raipur | 5. IIT (BHU) Varanasi | 10. IIT Jodhpur |
| 6. Amrita School of Engineering | | |

New algorithmic techniques developed to improve 5G network performance:

- Gaurav Jajoo and Prem Singh, “Modulation Recognition: An Unsupervised Learning Approach”, IEEE Global Conference on Communications (GLOBECOM), Kuala Lumpur, Malaysia, 2023
- Harsha Rudramuniyappa, Soujanya Samudrala, Rochak Jain, Naveed Anjum, Prem Singh and Ekant Sharma, “FPGA Implementation and Architecture Design of Polar Encoder for 5G NR”, IEEE TENCON, Chiang Mai, Thailand, 2023
- N. Jha, A. Mishra, J. Bapat and D. Das, “Fast Beam Search with Two-Level Phased Array in Millimeter-Wave Massive MIMO: A Hierarchical Approach,” 2022 IEEE Wireless Communications and Networking Conference (WCNC), 2022
- N. Jha, A. Mishra, J. Bapat and D. Das, “Fast Beam Search with Two-Level Phased Array in Millimeter-Wave Massive MIMO: A Hierarchical Approach,” IEEE Wireless Communication letters.

- NP Sharvari, Dibakar Das, Jyotsna Bapat, Debabrata Das, “Connectivity and collision constrained opportunistic routing for emergency communication using UAV,” Computer Networks.
- P. Iddalagi, A. Mishra, “Impact Analysis of Tunnel Probing Protocol on SD-WAN’s Mainstream Traffic”, 15th International Conference on COMMunication Systems & NETWORKS (COMSNETS)

Key Milestones Completed: Hardware Design

Hardware design for O-RAN compliant Distributed Unit (DU)

- a) Initial block design
- b) Schematic design and review
- c) Component placement, Board stackup and PCB layout
- d) (PI + SI + Thermal) analysis

CIET

CENTRE FOR INTERNET OF ETHICAL THINGS

Duration: 05 yrs.

Funds: Rs. 22.92 crores

Create Ethics framework in the application of Artificial Intelligence (AI) and Internet of Technologies (IoT) particularly in the field of agriculture, education, health, manufacturing, and smart cities

ELCITA: Collaboration between the institute and ELCITA, especially as part of its Smart City Expert Committee.



Principal Investigator:

Prof Rajagopalan

Sponsors:

Bill and Melinda gates Foundation,
Tata Trust, Omidyar Network and
Nordic Fund

Purpose:

To Build a Foundational Digital ID for Financial inclusion.

- Start Date: 27 Aug 2018.
- Early Adoptors: Morocco and Philipines.
- Project is recognised by many countries and implemented in Srilanka.

MOSIP adopting countries registered 100+ M residents on MOSIP based systems

Dissemination Status	No of Countries	Countries
National Roll-out	06	Morocco; Philippines; Ethiopia; Togo; Uganda; Sri Lanka
Pilot	04	Guinea; Sierra Leone; Madagascar; Burkina Faso

Research within IIIT-Bangalore

August to December 2023 Semester

- 16/20 Credit Course – 11 enrolled students worked on various MOSIP modules along with MOSIP engineering team
- 4 Credit Course – 7 enrolled students worked on multiple POCs around MOSIP

Research Collaborations

- Alan Turing Institute, UK
- Carnegie Mellon University, Africa
- Oregon State University, USA
- Aapti Insitute, Bangalore

Collaborations with Professional Bodies

- IEEE
- Open Wallet Foundation (OWF)
- Open ID Connect (OIDC)
- GovStack
- G2P Connect

New Initiatives

01. OpenG2P - an open-source benefits registry and delivery platform

- spun out of MOSIP as an independent project under the IIIT-Bangalore
- recently funded by international philanthropy for development and country adoption
- Philippines is the first adopter, 3-4 adoptions likely in next 2 years

02. Digital Credential Stack (DCS)

- would leverage MOSIP's work through Inji and e-signet
- being developed in partnership with EkStep foundation
- will offer a stack of technologies to issue, store, and share digital credentials across the digital economy



E-HEALTH RESEARCH CENTRE (EHRC)

Duration: 5 years

Funds: Rs. 60 Crores

Objectives and project scope:

- Technology leadership and end-to-end ownership for the Tele-MANAS technology platform
- Coordination with Ministry, NIMHANS, TAG and other stakeholders
- Solution and Architecture ownership, overall design and guidelines
- Development and maintenance of key software components
- Program and Vendor Management (IT Services and IVRS vendors)
- Technology roadmap for the platform

a) TeleManas project (Ministry of Health and Family Welfare)

- Programme announced in Union Budget 2022
- Project approved by Ministry (after SFC review): 22 July 2022
- First round of funds received (through NIMHANS): 17 Sept 2022.
- Second round in Apr 2023
- Formal launch of program with customized IVR solution: 10 Oct 2022
- Common toll free numbers nationally – 14416 & 1-800-891-4416
- Selected vendors for
- IVRS solution (Sept 2022)
- Software development services and Support (Mar 2023)
- Focus on robustness, scalability and security of platform, privacy of patient data

Operational Status

- 34 states/UTs with 52 operational TeleMANAS cells
- 1400+ counsellors trained and accounts enabled in IVRS system
- 11,97,037+ calls (as of July 2024) – including incoming and outgoing
- Ongoing analysis (weekly) of types of calls, demographics, complaints etc by state

b) Digital psychological Interventions for mental health care

- Duration: Started Jan 2022. Being extended until Mar '25
- Collaborators NIMHANS: Dr. Seema Mehrotra; MSR: Amit Sharma
- Sponsoring agency: MS Research and MS Philanthropies
- Funds sanctioned: Phase 1: Rs 8, 85, 000; Phase 2: Rs 22,00,000; Phase 1: Rs. 14,88,000

Status and Outcomes

The main development activities are completed.

- The app “MindNotes from NIMHANS” launched on Android Play Store about a year back
- Being updated based on user feedback, especially from a usability perspective
- The Kannada version is planned to be launched in Jan 2024.
- iOS version under development/testing

Project Outcomes

- NIMHANS has conducted small user studies (study size = 85 and 63 respectively) to evaluate user perceptions and effectiveness of the app.
- Results were encouraging. NIMHANS continues outreach and other activities to popularize the application.
- Usage data being analysed to understand user behaviour and app effectiveness



c) Digital Screening Platform for Brain Health Initiative

- Duration: Sept 2022 for 1 year
- Collaborators: NIMHANS; Dr. Suvarna Alladi, Dr. Ajay Asranna
- Sponsoring agency: NIMHANS/GoK
- Funds sanctioned: 14L; Received: 9L

Project Overview

- Web and mobile-based applications for facilitating protocol-based screening of neurological disorders by General Physicians and Medical Officers in General Hospitals and Primary Health Centers
- Enabling easier coordination with specialists and effective program governance.
- Application tested in a pilot mode at NIMHANS and other hospitals
- Funding: Budgeted: 14L, received: 9L. Awaiting release of last instalment (5L)
- Project status: Pilot completed. No current activity

Application summary

- Screening tool for 4 protocols (Epilepsy, Stroke, Headache and Dementia) as provided by NIMHANS
- Provision for Medical Officers at PHC's to record/view history, view diagnosis and guidance based on questionnaire
- Specialist Doctors at Secondary/Tertiary Health Centers can view referred cases and history, and add consultation records
- Program level dashboard and reports with drill-down to clinic level

d) Conversational AI for mental aid

- Project Investigator: T K Srikanth
- Co-investigators: Madhav Rao; Seema Mehrotra, Vikas V (NIMHANS), Manjit Sodhi (IBM)
- Funds Sanctioned: Rs 14,68,794 (USD 20,000)
- Project Duration: 18 months from 2 Nov 2021
- Sponsoring Agency: IBM Global University Program
- Funds Category: FCRA

Project Objectives

- Develop a non-rule based Conversational AI system for mental aid that would indicate severity levels of Psychological distress through a self-care assessment
- Recommend actions for mild depression, low anxiety, and other low level of mental disorder persons. To be used in conjunction with other NIMHANS-IITB initiatives such as Peer Support forum and PUSH-D

Project Status

- In progress. Initial delays both due to staffing and accessing relevant datasets.
- Multiple approaches have been tried to identify relevant datasets and AI models for analyzing them.
- Initial models have been developed using publicly available datasets (Reddit forum and CounselChat),
- Need content more specific to India. Have onboarded clinical psychologists to develop expert curated datasets and also provide fine-grained labelling

- A “best-in-class” center of excellence in Karnataka for Machine Intelligence and Robotics
- Research areas involved : Healthcare, Education technology, Speech, Smart city/Urban Mobility, Robotics and Policy & Governance.
- 07 New projects initiated in 2020-21.

Research

- 26 research projects in the area of multimodal language, machine learning, robotics, IoT, drones, assistive technologies, urban mobility, medical signal analysis & smart governance were funded
- 60+ Research publications in eminent journals and paper presentations in leading conferences
- 1 Patent licensed to a startup partner, 2 are filed and 2 are in progress/process

Education and Outreach

- Knowledge dissemination activities - Knowledge sessions, Trainings, Workshops, Field trips & Master Classes for Engineering students benefited 1000 beneficiaries.
- MINRO Experience Center host to several dignitaries and officials from the State and Central Governments, Representatives and visitors from other countries, Industry partners and student delegations.
- AI Gnana Sarani – A series of videos on AI and Robotics in Kannada hosted on MINRO Youtube channel.
- Virtual Experience Center set up to engage virtually with students and citizens

Phase 2 – Research Research Focus

- Consolidation of research in Healthcare to deliver impact; dedicated research fund allocation
- Focus on few large high impact research projects
- Support foundational research
- Support to ongoing research projects for extension of scope

Solutions built in collaboration with Innovation

Startups

- AI based Cognitive Interview Assistance System for Administrative Services Interviews (KAS and IAS), Beneficiary Partner – India4IAS Academy
- Refreshable Braille Reader, Beneficiary Partner – Vision Empower
- Exoskeleton (Assistive robotics) for neuro rehabilitation, Beneficiary Partner – BionicYantra, Research Partner – NIMHANS
- Medical grade, open source, indigenous, low-cost ventilator, Beneficiary Partner – Timetooth Technologies

Phase 2 – Capacity Building K-VLSI Program

- Objective - To provide added impetus to growth and talent availability for the VLSI Design sector in Karnataka and attract semiconductor companies to establish operations in the state.
- Goal: Skills for “First-Day-First-Hour” readiness for the VLSI Design Industry.
- Curriculum: Validated by Industry and IIIT-B Partners- KDEM, IESA, SFAL, and Industry Partners
- Outcome: Industry-ready candidates with “First-Day-First-Hour” productivity

Targeted Beneficiaries

Cohort 1 (Pilot) : Year 1 (2023 – 2024) : 60

Cohort 2 : Year 2 (2024 – 2025) : 100

Cohort 3 : Year 3 (2025 – 2026) : 100



CENTRE FOR OPEN DATA RESEARCH (CODR)

Principal Investigator: **Sponsor:**

Prof Srinath Srinivasa **GoK**

Duration : 05 yrs Funds : 6.96 crores

The Centre for Open-Data Research is aimed at promoting open-data utilisation through data science research outputs, tools and techniques with an objective to apply the results towards progressing human development or enhancing customer consumption experience. Open-Data is defined as data that is freely available for access, reuse, redistribution for everyone without any restrictions

IIT-Bangalore is spearheading the design, development, implementation, and deployment of the Proof-of-Concept (PoC) of a data-driven, analytics-enabled Policy Support System (PSS), named Karnataka Data Lake for evaluation by the Department of Planning, Programme Monitoring and Statistics (DPPMS), Government of Karnataka (GoK). Recently, it became part of the GoK DSS website Avalokana: <https://avalokana.karnataka.gov.in/DataLake/DataLake>

UN Sustainable Development Goals

Sustainable Development Goals (2015) replace the Millennium Development Goals (2000 - 2015) UN adopted 17 SDGs with 169 targets and 232 unique indicators.

Conclusions and Future Work

- The Policy Support System intends to aid policymakers in understanding different spheres of sustainable development goals, its targets and indicators
- The SDG targets have common concerns across domains hence undeniably these elements play a significant role affecting multiple terrains
- The distinguishing feature of PSS is the ability of identify intervention impacts both within and beyond the models
- Expand models library at a more granular level
- Expand knowledge graph with all possible entities pertaining to governance of Karnataka districts and identify latent relations
- Build District-SDG tracking map



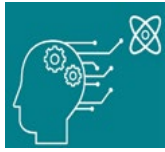
INDIA URBAN DATA EXCHANGE

Principal Investigator: **Sponsor:**

Prof Srinath Srinivasa **Ministry of Housing and Urban Affairs & Ministry of Information and Electronics Technology**

Indian cities need secure and controlled sharing of all types of data. IUDX is developed, maintained and operated by a dedicated team, based in IISc. As a complement to IUDX, IISc has launched

the IUDX research program to explore aspects of data science, privacy & security, economics, policy and regulations that will facilitate the use of data for public good.



PROJECT VICT

Principal Investigator:
Prof Amit Prakash

Sponsor:
Microsoft Research Lab India Pvt Ltd &
Microsoft Corporation (India) Private Limited

IIIT-B seeks to jointly implement the VICT Project with Microsoft, the proposal for which was submitted in partnership with Vision Empower (VE), a not-for-profit enterprise incubating in the IIIT-B Innovation Centre, aimed at empowering visually impaired students of K-12 grades by digitally skilling them, and redefining and updating the Computational Thinking curriculum/course in India, and empowering visually impaired students to access the corresponding modified accessible content identified for the curriculum.

Project Activities

- Design and implementation of user experience for students (young children, first time users of tech) and teachers (many of them vision impaired) to access the end devices and to effectively utilize the content for their learning and empowerment
- Tools to enable teachers to create content both by audio recording and by digitizing paper books and material
- Apps like IVR, e-book reader, online-meetings, and CT games
- A scalable SEEDS server with all the components of user data, device management, content provisioning and IVR services
- The technology to digitize and to create audio data that is accessible on the above devices

Progress

- The pilot has been conducted with 29 children in 5 schools spread across Karnataka
- A total of 130 sessions (moderated by an instructor) have been conducted for them spanning a duration of 97 hours
- An enjoyable content database has been created, using age-appropriate learning requirements and integrating them with stories, games, quizzes and other interactive and enjoyable material

A radio programme, Story Akka, has been created in partnership with Pickle Jar Media, which has been broadcast on All India Radio Karnataka during September-December 2023



FAIRWORK PROJECT

Principal Investigator:
Prof Balaji

Parthasarathy
Sponsor:
▶ University of Oxford

Fairwork, at its essence, is a way of imagining a different, and fairer, platform economy than the one we have today. By evaluating digital

platforms against measures of fairness in labour practices, we hope to not just show what the platform economy is, but also what it can be.



CENTER FOR e-GOVERNANCE (CeG)

Principal Investigator:
Prof Ramanathan
Chandrashekar

Sponsor:
GoK

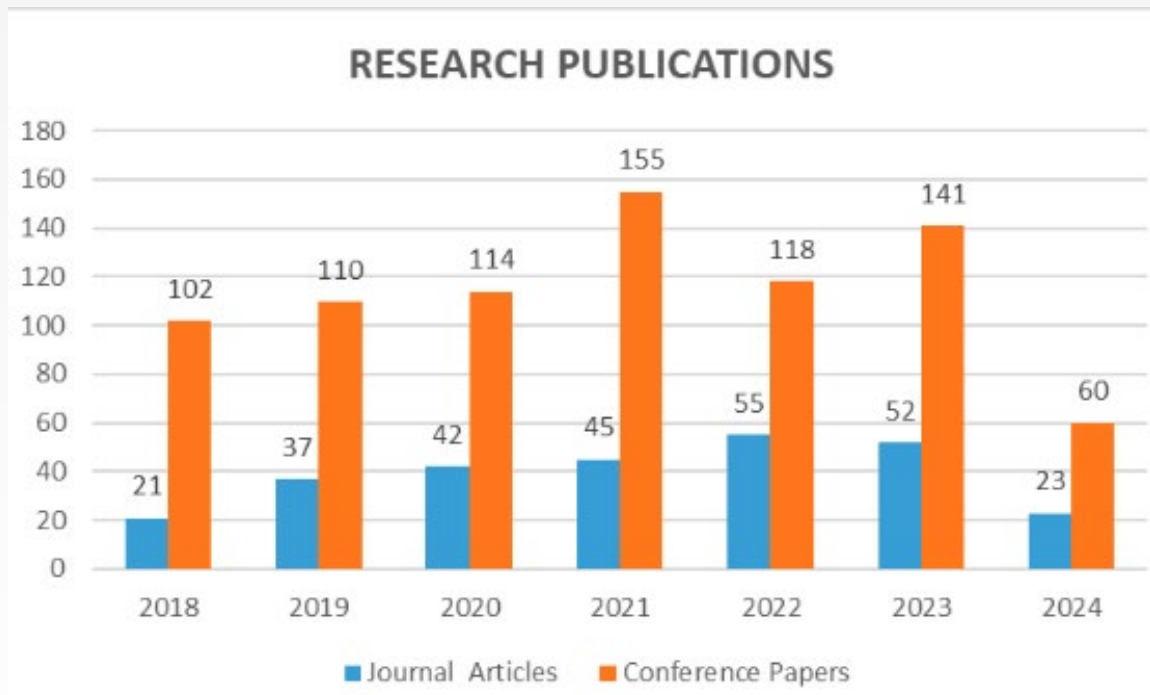
Duration: 05 years Funds : 9.68 crores

Centre for Technology Research and Innovation for Digital Governance established – 02 Sep 2022

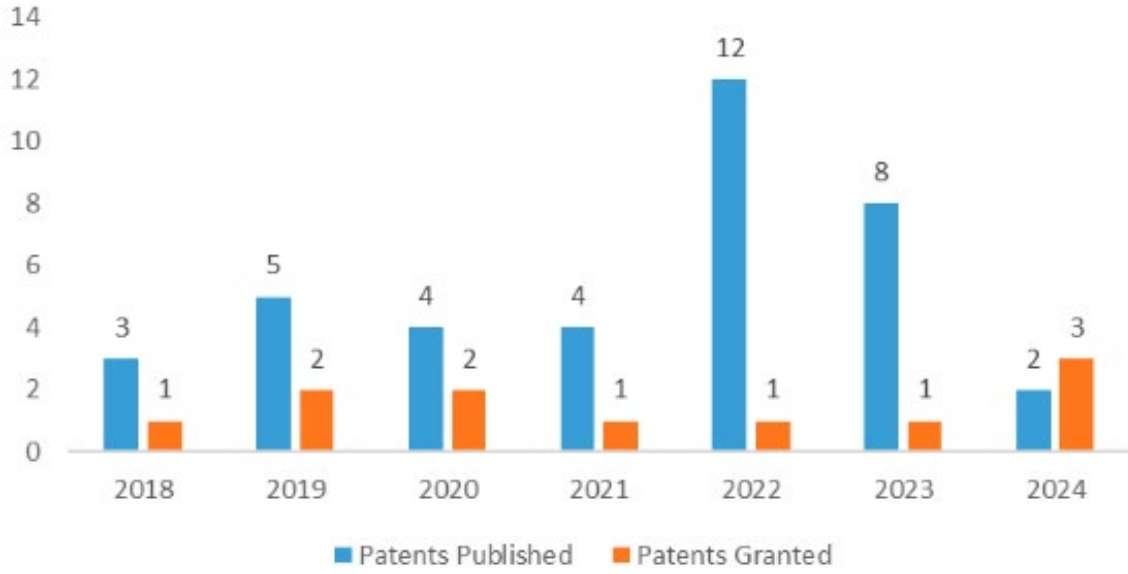
Key Purpose

- Research and Pilot projects on new ideas/ emerging software technologies and architecture principles
- Create SANDBOX / LAB driven approach to identify and validate use cases in different domain of government.
- Build Emerging technology skills and Capabilities for Software Engineering, Data Science, ML OPS, DevOps, Cloud and Networking to scale the CEG initiatives/ Programs.
- Standardisation of Application Development and Maintenance Life Cycles
- Design and Rollout Training Programs covering emerging technologies, Process reengineering and e-Governance Best Practices

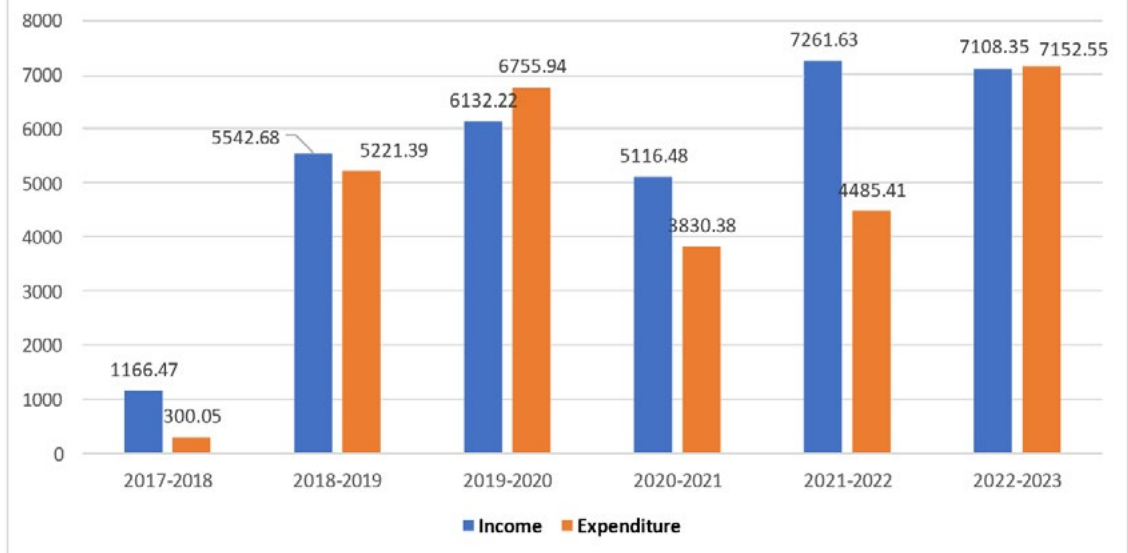
RESEARCH OUTCOMES



PATENTS STATUS



RESEARCH - INCOME & EXPENDITURE



16

PUBLICATIONS



CONFERENCE PUBLICATIONS

Sowmith Nandan Rachuri, Arpitha Malavalli, Niharika Sri Parasa, Pooja Bassin and Srinath Srinivasa, “Modeling the Impact of Policy Interventions for Sustainable Development,” in Proc. 32nd International Joint Conference on Artificial Intelligence, Macao, China, August 19-25, 2023, pp. 7167-7170. doi: <https://doi.org/10.24963/ijcai.2023/841>

Shwet Kamal Mishra, Soham Joshi and Viswanath Gopalakrishnan, “Re-Thinking Text Clustering for Images with Text,” in Proc. 17th International Conference on Document Analysis and Recognition, ICDAR 2023, San José, CA, USA, August 21–26, 2023. pp. 280-294. doi: https://doi.org/10.1007/978-3-031-41679-8_16

Jingjing Xu, Maria Biryukov, Martin Theobald, Vinu Ellampallil Venugopal, “BigText-QA: Question Answering over a Large-Scale Hybrid Knowledge Graph,” in Proc. 13th EAI International Conference on Big Data Technologies and Applications (BDTA 2023), Edinburgh, UK, August 23-24, 2023, pp. 33-48. doi: https://doi.org/10.1007/978-3-031-52265-9_3

Sambhu H. Karumanchi, Raghuram Bharadwaj Diddigi, K.J. Prabuchandran and Shalabh Bhatnagar, “Autonomous UAV Navigation in Complex Environments using Human Feedback,” in Proc. 32nd IEEE International Conference on Robot and Human Interactive Communication (RO-MAN), Busan, Korea, August 28-31, 2023, pp. 499-506. doi: <https://doi.org/10.1109/RO-MAN57019.2023.10309494>

Srinivas Vivek, “Attack on “A Privacy-Preserving Online Ride-Hailing System Without Involving a Third Trusted Server”,” in Proc. 18th International Conference on Availability, Reliability and Security ARES’23, Benevento, Italy, August 29 - September 1, 2023, 3p. doi: <https://doi.org/10.1145/3600160.3605040>

Agrim Agarwal, Amrita Mishra and Priyanka Das, “Sparse Bayesian Learning-based Channel Estimation for IRS-aided Millimeter Wave Massive MIMO Systems,” in Proc. IEEE 34th Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Toronto, Canada, September 05-08, 2023. doi: <https://doi.org/10.1109/pimrc56721.2023.10293905>

Vinay Rayapati, Mahati Basavaraju and Madhav Rao, “High Performance and Energy Efficient AMD and BWAD Pooling Schemes Characterised for CNN Accelerators,” in Proc. 26th Euromicro Conference on Digital System Design (DSD), Golem, Albania, September 06-08, 2023, pp. 470-477. doi: <https://doi.org/10.1109/DSD60849.2023.00011>

Mayank Kabra, Shreyas V S, Prashanth H C, Kedar Deshpande and Madhav Rao, “GCells: A Graph-Search Approach to Design Custom Cells for Computational Subsystems,” in Proc. 26th Euromicro Conference on Digital System Design (DSD), Golem, Albania, September 06-08, 2023, pp. 117-123. doi: <https://doi.org/10.1109/DSD60849.2023.00011>

Prakhar Rastogi, Karanveer Singh and Jaya Sreevalsan-Nair, "SunburstChartAnalyzer: Hierarchical Data Retrieval from Images of Sunburst Charts for Tree Visualization," in Proc. 41th Computer Graphics & Visual Computing Conference (CGVC 2023), Wales, UK, September 14 - 15, 2023, pp. 97-100. doi: <https://doi.org/10.2312/cgvc.20231200>

Snigdha Agarwal and Neelam Sinha, "3D Segmentation of Unruptured Intracranial Aneurysms using Task Specific Transfer Learning and Pure Convnets," in Proc. IEEE 33rd International Workshop on Machine Learning for Signal Processing (MLSP), Rome, Italy, September 17-20, 2023, 6p. doi: <https://doi.org/10.1109/mlsp55844.2023.10285972>

R. Ammu and Neelam Sinha, "Analysis of Mild Cognitive Impairment Utilizing Covariance Matrices of Brain Regions," in Proc. IEEE 33rd International Workshop on Machine Learning for Signal Processing (MLSP), Rome, Italy, September 17-20, 2023, 6p. doi: <https://doi.org/10.1109/mlsp55844.2023.10286002>

Sai Krishna Koppurapu, Debanjali Bhattacharya and Neelam Sinha, "Spatial Encoding of EEG Brain Wave Signals to Predict Student's Mental State During E-Learning," in Proc. IEEE 33rd International Workshop on Machine Learning for Signal Processing (MLSP), Rome, Italy, September 17-20, 2023, 6p. doi: <https://doi.org/10.1109/mlsp55844.2023.10285955>

Apurva Kulkarni and Chandrashekar Ramanathan, "SDG Aligned Datalake Framework over Open Data," in Proc. 1th International Conference on Sustainable Development (ICSD), New York; USA, September 18-20, 2023. doi: https://ic-sd.org/wp-content/uploads/2023/10/2023-submission_410.pdf

Vandana M. Ladwani and V. Ramasubramanian, "Connectionist Temporal Sequence Decoding: M-ary Hopfield Neural-Network with Multi-limit Cycle Formulation," in Proc. 32nd International Conference on Artificial Neural Networks (ICANN 2023), Heraklion, Crete, Greece, September 26-29, 2023, pp. 255-268. doi: https://doi.org/10.1007/978-3-031-44192-9_21

Syed Eqbal Alam, Dharendra Shukla and Shrisha Rao, "Near-optimal Differentially Private Client Selection in Federated Settings," in Proc. 59th Annual Allerton Conference on Communication, Control, and Computing (Allerton), Illinois, USA, September 26-29, 2023, 8p. doi: <https://doi.org/10.1109/Allerton58177.2023.10313432>

Sanjay Vijaypur Prabhakar and Amit Prakash, "ICT-Enabled Agriculture E-Markets: Reflecting on Local Level Resistance to a Large-Scale State-Sponsored Technology Intervention," in Proc. 16th International Conference on Theory and Practice of Electronic Governance (ICEGOV 2023), Belo Horizonte Brazil September 26 - 29, 2023, pp. 135-142. doi: <https://doi.org/10.1145/3614321.3614338>

Indu Solomon, Uttam Kumar and Senthilnath Jayavelu, "Data Generation with Structure Enforcing Adversarial Learning," in Proc. IEEE International Conference on Image Processing (ICIP), Kuala Lumpur, Malaysia, October 8-11, 2023, pp. 2530-2534. doi: <https://doi.org/10.1109/icip49359.2023.10222210>

Ananya Appan, Anirudh Chandramouli and Ashish Choudhury, "Network Agnostic Perfectly Secure MPC Against General Adversaries," in Proc. 37th International Symposium on Distributed Computing (DISC 2023), L'Aquila, Italy, October 10-12, 2023, 19p. doi: <https://doi.org/10.4230/LIPIcs.DISC.2023.3>

Neeta Jha, Saptarshi Chaudhuri, Jyotsna Bapat, Amrita Mishra and Debabrata Das, "Enhancing User Detection via SS Burst Repetition in 5G Millimeter Wave Systems," in Proc. 2023 IEEE 98th Vehicular Technology Conference (VTC2023-Fall), Hong Kong, October 10-13, 2023,. doi: <https://doi.org/10.1109/VTC2023-Fall60731.2023.10333727>

Rajeev Gupta and Srinath Srinivasa, "Workshop on Enterprise Knowledge Graphs using Large Language Models," in Proc. 32nd ACM International Conference on Information and Knowledge Management (CIKM'23), Birmingham United Kingdom, October 21 - 25, October 2023, pp.5271–5272. doi: <https://doi.org/10.1145/3583780.3615301>

Ila Ananta; Kapil Gupta and G. R. Sinha, "Optimized Meditative EEG Channel Estimation for Efficient Impact Study of Mindfulness for Sustainable Health," in Proc. International Conference on Evolutionary Algorithms and Soft Computing Techniques (EASCT), Bengaluru; India, October 20-21, 2023. doi: <https://doi.org/10.1109/EASCT59475.2023.10393130>

Apurva Kulkarni, Chandrashekar Ramanathan and Vinu E. Venugopal, "Cognitive Retrieve: Empowering Document Retrieval with Semantics and Domain-Specific Knowledge Graph," in Proc. Workshop on Enterprise Knowledge Graphs using Large Language Models (EKG-LLM 2023), Birmingham United Kingdom, October 22, October 2023. doi: <https://ceur-ws.org/Vol-3532/paper3.pdf>

Anurag Mohanty, "EduEmbedd – A Knowledge Graph Embedding for Education," in Proc. Workshop on Enterprise Knowledge Graphs using Large Language Models (EKG-LLM 2023), Birmingham United Kingdom, October 22, October 2023. doi: <https://ceur-ws.org/Vol-3532/paper1.pdf>

Prashanth H C, Yash Dharmesh Mogal, and Madhav Rao, "Design-Space Exploration of Systolic Array for Edge Inferencing Applications," in Proc. 3rd. International Conference on Artificial Intelligence and Machine Learning Systems (AIMLSystems 2023), Bangalore India October 25 - 28, 2023, 8p. doi: <https://doi.org/10.1145/3639856.3639858>

Vamshi K. Kancharala and Neelam Sinha, "YOLOv7-DocInstSeg: Efficient Instance Segmentation Framework for Document Analysis and Recognition," in Proc. 3rd. International Conference on Artificial Intelligence and Machine Learning Systems (AIMLSystems 2023), Bangalore India October 25 - 28, 2023,8p.doi:<https://doi.org/10.1145/3639856.3639868>

Renju C Nair, Madhav Rao, and Muralidhara V N, "SecureFrameNet:A rich computing capable secure framework for deploying neural network models on edge protected system," in Proc. 3rd. International Conference on Artificial Intelligence and Machine Learning Systems (AIMLSystems 2023), Bangalore India October 25 - 28, 2023, 6p. doi: <https://doi.org/10.1145/3639856.3639864>

Chinmay Sultania, Divyansh Singhal, Mayank Kabra, Anshul Madurwar, Soham Pawar and Madhav Rao, "Wearable Haptic Sensing - Enriching Accessibility of Pictorial Information for Visually Impaired," in Proc. IEEE Sensors, Vienna, Austria, 29 October 2023 - 01 November 2023, 4p. doi: <https://doi.org/10.1109/SENSORS56945.2023.10325014>

Chinmay Sultania, Divyansh Singhal, Mayank Kabra, Anshul Madurwar, Soham Pawar and Madhav Rao, "WearableHapticBrailleDeviceforEnhancingClassroom Learning," in Proc. IEEE Sensors, Vienna, Austria, 29 October 2023 - 01 November 2023, 4p. doi: <https://doi.org/10.1109/SENSORS56945.2023.10324924>

Rochak Jain, Naveed Anjum, Samudrala Soujanya and Harsha Rudramuniyappa, "FPGA Implementation of Rate Matching in 5G NR PDSCH," in Proc. EEE Region 10 Conference (TENCON), Chiang Mai, Thailand, October 31 - November 03, 2023, 6p. doi: <https://doi.org/10.1109/TENCON58879.2023.10322544>

Samudrala Soujanya, Himanshu B. Mishra and Prem Singh, "IRS Assisted FBMC Waveform: Channel Estimation and Reflecting Coefficients Optimization," in Proc. EEE Region 10 Conference (TENCON), Chiang Mai, Thailand, October 31 - November 03, 2023, 6p. doi: <https://doi.org/10.1109/TENCON58879.2023.10322538>

Vamshi K. Kancharala, Debanjali Bhattacharya and Neelam Sinha, "Spatial Encoding of BOLD fMRI Time Series for Categorizing Static Images Across Visual Datasets: A Pilot Study on Human Vision," in Proc. EEE Region 10 Conference (TENCON), Chiang Mai, Thailand, October 31 - November 03, 2023, 6p. doi: <https://doi.org/10.1109/TENCON58879.2023.10322476>

Harsha Rudramuniyappa, Samudrala Soujanya, Rochak Jain, Naveed Anjum, Prem Singh and Ekant Sharma, "FPGA Implementation and Architecture Design of Polar Encoder for 5G-NR," in Proc. EEE Region 10 Conference (TENCON), Chiang Mai, Thailand, October 31 - November 03, 2023, 6p. doi: <https://doi.org/10.1109/TENCON58879.2023.10322438>

Gogireddy Ravi Kiran Reddy, Sanampudi Gopala Krishna Reddy, Vasanthi D R and Madhav Rao, "MNHOKA-PPA Efficient M-Term Non-Homogeneous Hybrid Overlap-free Karatsuba Multiplier for GF (2 n) Polynomial Multiplier," in Proc. IEEE 41st International Conference on Computer Design (ICCD), Washington DC, USA, November 06-08, 2023, pp. 38-45. doi: <https://doi.org/10.1109/ICCD58817.2023.00016>

Bindu G Gowda, Raghava S N, Prashanth H C, Pratyush Nandi and Madhav Rao, "ApproxCNN: Evaluation Of CNN With Approximated Layers Using In-Exact Multipliers," in Proc. IEEE 41st International Conference on Computer Design (ICCD), Washington DC, USA, November 06-08, 2023, pp. 46-53. doi: <https://doi.org/10.1109/ICCD58817.2023.00017>

Prasanth H C and Madhav Rao, "Meta-Heuristic Optimization of Transistor Sizing in CMOS Digital Designs," in Proc. 15th International Joint Conference on Computational Intelligence.(ECTA 2023), Rome, Italy, November 13-15, 2023, pp. 278-287. doi: <https://doi.org/10.5220/0012198400003595>

Anubhav Mishra; Nanditha Rao; Ganesh Gore and Xifan Tang, "Architectural Exploration of Heterogeneous FPGAs for Performance Enhancement of ML Benchmarks," in Proc. IEEE Asia Pacific Conference on Circuits and Systems (APCCAS), Hyderabad; India, November 19-22, 2023, pp. 232-235. doi: <https://doi.org/10.1109/APCCAS60141.2023.00060>

Nittheekant R; Barath S Narayan; Madhav Rao; Ketaki Srikrishna Tamhanakar; Neha Srikrishna Tamhanakar and M Srinivasan, "Guitar-For-All - A Programmable Single Touch Synthetic Guitar," in Proc. IEEE Gaming, Entertainment, and Media Conference (GEM), Bridgetown; Barbados, November 19-22, 2023, pp. doi: <https://doi.org/10.1109/GEM59776.2023.10390459>

Madhurima Panja, Tanujit Chakraborty, Uttam Kumar and Abdenour Hadid, "Probabilistic AutoRegressive Neural Networks for Accurate Long-Range Forecasting," in Proc. 30th International Conference on Neural Information Processing (ICONIP 2023), Changsha, China, November 20-23, 2023, pp. 457-477. doi: https://doi.org/10.1007/978-981-99-8178-6_35

Tajinder and Sahil Sharma, "ADL-VTON: Advanced Deep Learning Virtual Try-On Technique," in Proc. Seventh International Conference on Image Information Processing (ICIIP), Solan; India, November 22-24, 2023, pp. 597-602. doi: <https://doi.org/10.1109/ICIIP61524.2023.10537772>

Ananya Appan and Ashish Choudhury, "Network Agnostic MPC with Statistical Security," in Proc. 21st International Conference on Theory of Cryptography (TCC 2023), Taipei, Taiwan, November 29 – December 2, 2023, pp. 63-93. doi: https://doi.org/10.1007/978-3-031-48618-0_3

Vishnudeep M R; Prateeth Rao and Lakshmeesha, "Advancements in Semantic Skin Lesion Segmentation: A Comparative Study with YOLOv8 for Accurate Skin Lesion Segmentation," in Proc. Global Conference on Information Technologies and Communications (GCITC), Bengaluru; India, December 01-03, 2023, 6p. doi: <https://doi.org/10.1109/GCITC60406.2023.10425934>

Prateeth Rao and Satish Kumar, "Channel Estimation for mmWave MIMO using Deep Residual Learning," in Proc. Global Conference on Information Technologies and Communications (GCITC), Bengaluru; India, December 01-03, 2023, 6p. doi: <https://doi.org/10.1109/GCITC60406.2023.10426111>

Rohit Rohit, Shivam Dudeja and Madhav Rao, "VLUT: Design and Evaluation of Variable band LUT to realize Activation Functions," in Proc. 30th IEEE International Conference on Electronics, Circuits and Systems (ICECS), Istanbul, Turkiye, December 4-7, 2023. doi: <https://doi.org/10.1109/ICECS58634.2023.10382912>

Priyanka Das; Sumukha Kashyap; Rimalapudi Sarvendranath and Amrita Mishra, "Binary Power

Control and Passive Beamforming for RIS-Assisted Spectrum Sharing Network," in Proc. IEEE Globecom Workshops (GC Wkshps), Kaula Lumpur, Malaysia, December 4-8, 2023, pp. doi: <https://doi.org/10.1109/GCWkshps58843.2023.10464583>

Mudasir Ahmad Sheikh; Anupama Rajoriya; Prem Singh and Rohit Budhiraja, "Coupled Prior-Based Sparse Bayesian Channel Estimation for Superimposed Pilot OTFS Systems," in Proc. IEEE Global Communications Conference (GLOBECOM 2023), Kaula Lumpur, Malaysia, December 4-8, 2023, pp. 4044-4049. doi: <https://doi.org/10.1109/GLOBECOM54140.2023.10437812>

Gaurmv Jajoo and Prem Singh, "Modulation Recognition: An Unsupervised Learning Approach," in Proc. IEEE Global Communications Conference (GLOBECOM 2023), Kaula Lumpur, Malaysia, December 4-8, 2023, pp. 7441-7446. doi: <https://doi.org/10.1109/GLOBECOM54140.2023.10437124>

M. Aparna, Sharath Srivatsa, G. Sai Madhavan, T. B. Dinesh, Srinath Srinivasa, "AI-Based Assistance for Management of Oral Community Knowledge in Low-Resource and Colloquial Kannada Language," in Proc. Big Data Analytics in Astronomy, Science, and Engineering (BDA 2023), Aizu, Japan, December 5-7, 2023. pp. 3-16. doi: https://doi.org/10.1007/978-3-031-58502-9_1

Bhoomika, A. P.; Srinivasa, Srinath; Indla, Vijaya Sarathi; Mukherjee, Saikat, "Vector-Based Semantic Scenario Search for Vehicular Traffic," in Proc. Big Data Analytics in Astronomy, Science, and Engineering (BDA 2023), Aizu, Japan, December 5-7, 2023. pp. 160-171. doi: https://doi.org/10.1007/978-3-031-58502-9_11

Sanjay V. Prabhakar and Amit Prakash, "Use of Locally Valued Non-state ICTs by Market Actors: A Case of Transforming Agriculture Marketing in Karnataka, India," in Proc. IFIP Joint Working Conference on the Future of Digital Work: The Challenge of Inequality (IFIPJWC 2023), Hyderabad, India, December 7-8, 2023, pp. 78-91. doi: <https://doi.org/10.1007/978-3-031-50154-8>

Hotma Uli Octavia Tampubolon and Janaki Srinivasan, "Even More Work for Mother? Online Schooling and Asymmetric Parental Involvement during the Pandemic in Indonesia," in Proc. IFIP Joint Working Conference on the Future of Digital Work: The Challenge of Inequality (IFIPJWC 2023), Hyderabad, India, December 7-8, 2023, pp. 175-192. doi: <https://doi.org/10.1007/978-3-031-50154-8>

V Dinesh Datta, Sakthi Ganesh, Roland E. Haas and Asoke K. Talukder, "GREAT AI in Medical Appropriateness and Value-Based-Care," in Proc. 11th International Conference on Big Data and Artificial Intelligence, (BDA 2023), New Delhi, India, December 7-9, 2023, pp. 16-33. doi: https://doi.org/10.1007/978-3-031-49601-1_2

Deepa Austin, "Systems thinking to design integrated health information systems: Navigating the complexity of malnutrition management in Indian context," in Proc. The International Conference on Information Systems (ICIS 2023 TREOS), Hyderabad, India, December 10-13, 2023. doi: https://aisel.aisnet.org/treos_icis2023/94

Vinay Reddy Venumudula, Amit Prakash and Bidisha Chaudhuri, "Assessment of Smart City IoT Interventions: A Complexity Informed Ethics Perspective," in Proc. The International Conference on Information Systems (ICIS 2023 TREOS), Hyderabad, India, December 10-13, 2023. doi: https://aisel.aisnet.org/treos_icis2023/68/

Aswini Baje and Amit Prakash, "Can collaboration between agri-tech firms and farmer collectives lead to development of sustainable food value chains?," in Proc. The International Conference on Information Systems (ICIS 2023 TREOS), Hyderabad, India, December 10-13, 2023. doi: https://aisel.aisnet.org/treos_icis2023/71

Deeksha Aggarwal; Uttam Kumar and Rikhil Gupta, "Comparative Analysis of Unsupervised Pre-Training Models for LULC Classification With Limited Labelled Data," in Proc. IEEE India Geoscience and Remote Sensing Symposium (InGARSS), Bengaluru, India, December 10-13, 2023, 4p. doi: <https://doi.org/10.1109/InGARSS59135.2023.10490408>

Rahisha Thottolil; Uttam Kumar and Aswathi Mundayatt, "Predicting Urban Expansion Using A Patch-Generating Land Use Simulation (PLUS) Model: A Case Study of Bangalore City, India," in Proc. IEEE India Geoscience and Remote Sensing Symposium (InGARSS), Bengaluru, India, December 10-13, 2023, 4p. doi: <https://doi.org/10.1109/InGARSS59135.2023.10490381>

Yash Mittal; Uttam Kumar and Deeksha Aggarwal, "Online Incremental Machine Learning Model For Multi-Sensor and Multi-Temporal Satellite Data: A Case Study of Bangalore," in Proc. IEEE India Geoscience and Remote Sensing Symposium (InGARSS), Bengaluru, India, December 10-13, 2023, 4p. doi: <https://doi.org/10.1109/InGARSS59135.2023.10490335>

NidhishBhimrajka, SujitChakrabarti, AshishChoudhury and Supreeth Varadarajan, "Privacy-Preserving Plagiarism Checking," in Proc. 24th International Conference on Cryptology in India (INDOCRYPT 2023), Goa, India, December 10-13, 2023, pp. 105-125. doi: https://doi.org/10.1007/978-3-031-56235-8_6

Nidhish Bhimrajka, Ashish Choudhury and Supreeth Varadarajan, "Network-Agnostic Perfectly Secure Message Transmission Revisited," in Proc. 24th International Conference on Cryptology in India (INDOCRYPT 2023), Goa, India, December 10-13, 2023, pp. 25-44. doi: https://doi.org/10.1007/978-3-031-56235-8_2

Avinash Dixit and Vinay Kulkarni, V. V. Reddy, "Analysis of Segmented Spectrograms for Human Activity Recognition via Neural Network," in Proc. 10th International Conference on Pattern Recognition and Machine Intelligence, PReMI 2023, Kolkata, India, December 12-15, 2023, pp. 312-320. doi: https://doi.org/10.1007/978-3-031-45170-6_32

Ranjani Niranjani and Sachit Rao, "Handling Small Disjuncts and Class Skew Using Sequential Ellipsoidal Partitioning," in Proc. 10th International Conference on Pattern Recognition and Machine Intelligence (PReMI 2023), Kolkata, India, December 12-15, 2023, pp. 80-88. doi: https://doi.org/10.1007/978-3-031-45170-6_9

Sourav Ganguly; Raghuram Bharadwaj Diddigi and Prabuchandran K J, "Efficient Off-Policy Algorithms for Structured Markov Decision Processes," in Proc. 62nd IEEE Conference on Decision and Control (CDC), Singapore, December 13-15, 2023, pp. 8312-8319. doi: <https://doi.org/10.1109/CDC49753.2023.10383276>

Sanjay V. Prabhakar and Amit Prakash, "Dwelling on Wickedness in Societal Systems: A Case of ICTD Intervention in Indian Agriculture Markets," in Proc. IFIP WG 8.6 International Working Conference on Transfer and Diffusion of IT (TDIT 2023), Nagpur, India, December 15-16, 2023m pp. 308-322. doi: https://doi.org/10.1007/978-3-031-50192-0_27

Ashwini Baje and Amit Prakash, "Agritech Startups and Inclusion of Small-Scale Producers: Evidence

from High-Value Chains in Karnataka, India," in Proc. IFIP WG 8.6 International Working Conference on Transfer and Diffusion of IT (TDIT 2023), Nagpur, India, December 15-16, 2023, pp. 220-233. doi: https://doi.org/10.1007/978-3-031-50192-0_19

Rashmi Pavagada Subbanarasimha, Vinay Reddy Venumuddala, Amit Prakash and Bidisha Chaudhuri, "Complexity of Last Mile Networks and Ethics of Smart City Interventions: A Case of Solid Waste Management Intervention in Karnataka," in Proc. IFIP WG 8.6 International Working Conference on Transfer and Diffusion of IT (TDIT 2023), Nagpur, India, December 15-16, 2023, pp. 341-353. doi: https://doi.org/10.1007/978-3-031-50188-3_30

Jinal H Thakkar, Chinchu Thomas and Dinesh Babu Jayagopi, "Automatic assessment of communication skill in real-world job interviews: A comparative study using deep learning and domain adaptation," in Proc. Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP '23), Rupnagar India December 15 - 17, 2023. doi: <https://doi.org/10.1145/3627631.3627636>

Vaibhavi Lokegaonkar, Vijay Jaisankar, Pon Deepika, Madhav Rao, T K Srikanth, Sarbani Mallick and Manjit Sodhi, "Introducing SSBD+ Dataset with a Convolutional Pipeline for Detecting Self-Stimulatory Behaviours in Children Using Raw Videos," in Proc. IEEE International Conference on E-health Networking, Application & Services (Healthcom), Chongqing, China, December 15-17, pp. 288 - 293. doi: <https://doi.org/10.1109/Healthcom56612.2023.10472349>

Meghana Vargheese and Srinivas Vivek, "Attack on the Privacy-Preserving Carpooling Service TAROT," in Proc. 19th International Conference on Information System Security, (ICISS 2023), Raipur, India, December 16-20, 2023, pp. 249-258. doi: https://doi.org/10.1007/978-3-031-49099-6_15

- Sasirekha Gvk; Annapoorna Gh; Madhav Rao ; Jyotsna Bapat and Debabrata Das, "ML-Augmented Network Packet Broker based Anomaly Detection at IIoT-Edge Egress Port," in Proc. IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), Jaipur; India, December 17-20, 2023, 6p. doi: <https://doi.org/10.1109/ANTS59832.2023.10468811>
-
- Amit K. Shrivastava, Satish Kumar, Khushboo Sahu, Bhavesh Sonwani, Dixit Sharma, Dipti S. Srivastava, Navneet Garg, Arzad Alam Kherani, Vimal Bhatia, Soumava Mukherjee, Samrat Mukhopadhyay, Priyanka Das, Rajarshi Mahapatra, Debanjan Das and Brejesh Lall, "TSDSI Standards Driven Implementation of Smart Radio Environment," in Proc. IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), Jaipur; India, December 17-20, 2023, 497-502p. doi: <https://doi.org/10.1109/ANTS59832.2023.10469269>
-
- Manikandan, R R, "Overview of Cryo-CMOS Devices and Circuits for Quantum Computing Applications," in Proc. IEEE International Symposium on Smart Electronic Systems (iSES), Ahmedabad; India, December 18-20, 2023, pp. 199-203. doi: <https://doi.org/10.1109/iSES58672.2023.00049>
-
- Samhitha Perala, Manaswitha Reddy, Sharvari Ravindran, Sasirekha Gvk and Jyotsna Bapat, "Strategic Placement of Intrusion Detection Systems in IIoT Mesh Networks through Machine Learning," in Proc. 10th International Conference on Networking, Systems and Security (NSysS 2023), Khulna Bangladesh December 21 - 23, 2023, pp. 35-41. doi: <https://doi.org/10.1145/3629188.3629195>
-
- Shounak Shirodkar and Serene Banerjee, "Causal Policy Gradient for End-to-End Communication Systems," in Proc. 16th International Conference on COMMunication Systems & NETWORKS (COMSNETS), Bengaluru, India, January 3-7, 2024, pp. 572-576. doi: <https://doi.org/10.1109/COMSNETS59351.2024.10426936>
-
- Darli Myint Aung and G R Sinha, "Creation of Dataset for Shan Handwritten Alphabet Recognition System of Myanmar," in Proc. 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT), Bengaluru, India, January 3-7, 2024, pp. 909-912. doi: <https://doi.org/10.1109/IDCIoT59759.2024.10467304>
-
- Balambiga Ayappane, Rohith Vaidyanathan, Srinath Srinivasa, Santosh Kumar Upadhyaya and Srinivas Vivek, "Consent Service Architecture for Policy-Based Consent Management in Data Trusts,," in Proc. 7th Joint International Conference on Data Science & Management of Data (11th ACM IKDD CODS and 29th COMAD) CODS-COMAD 2024, Bengaluru, India, January 4 - 7, 2024, pp. 155-163. doi: <https://doi.org/10.1145/3632410.3632415>
-
- Chandrashekar Ramanathan and Boppana Venkatesh, "STRCUBE - An Architecture and Reference Implementation for Streaming Star Schema," in Proc. 7th Joint International Conference on Data Science & Management of Data (11th ACM IKDD CODS and 29th COMAD) CODS-COMAD 2024, Bengaluru, India, January 4 - 7, 2024, pp. 533-537. doi: <https://doi.org/10.1145/3632410.3632479>
-
- Sharath Srivatsa, Aparna M, Sai Madhavan G and Srinath Srinivasa, "Knowledge Management Framework Over Low Resource Indian Colloquial Language Audio Contents," in Proc. 7th Joint International Conference on Data Science & Management of Data (11th ACM IKDD CODS and 29th COMAD) CODS-COMAD 2024, Bengaluru, India, January 4 - 7, 2024, pp. 553-557. doi: <https://doi.org/10.1145/3632410.3632483>

Aniket Mitra and Vinu E. Venugopal, "Enhancing Region-Based Geometric Embedding for Gene-Disease Associations," in Proc. 7th Joint International Conference on Data Science & Management of Data (11th ACM IKDD CODS and 29th COMAD) CODS-COMAD 2024, Bangalore, India, January 4 - 7, 2024, pp. 584-585. doi: <https://doi.org/10.1145/3632410.3632489>

Tushar Vrind, Chandar Kumar and Debabrata Das, "ACADEME: Aerial Cell-Assisted Device-Edge coinference ModEl in 6G Wireless Network," in Proc. IEEE 21st Consumer Communications and Networking Conference (CCNC), Las Vegas, USA, January 6-9, 2024, pp. 1006-1009. doi: <https://doi.org/10.1109/CCNC51664.2024.10454698>

Yathin Kumar Attuluri, Ruchit Chudasama, Kailash Prasad and Joycee Mekie, "FP-ATM: A Flexible Floating Point NOR Adder Tree Macro for In-Memory Computing," in Proc. 37th International Conference on VLSI Design and 23rd International Conference on Embedded Systems (VLSID), Kolkata, India, January 6-10, 2024, pp. 241-246. doi: <https://doi.org/10.1109/VLSID60093.2024.00047>

Saketh Gajawada, Aryan Gupta, Kailash Prasad and Joycee Mekie, "FP-BMAC: Efficient Approximate Floating-Point Bit-Parallel MAC Processor using IMC," in Proc. 37th International Conference on VLSI Design and 23rd International Conference on Embedded Systems (VLSID), Kolkata, India, January 6-10, 2024, pp. 247-252. doi: <https://doi.org/10.1109/VLSID60093.2024.00046>

Ayyappa Koppuravuri, Haribabu Pasupuleti, Sasirekha GVK and Jyotsna Bapat, "A High Throughput ASCON Architecture for Secure Edge IoT Devices," in Proc. 37th International Conference on VLSI Design and 23rd International Conference on Embedded Systems

(VLSID), Kolkata, India, January 6-10, 2024, pp. 486-491. doi: <https://doi.org/10.1109/VLSID60093.2024.00087>

Dantu Nandini Devi, Gandhi Ajay Kumar, Bindu G. Gowda and Madhav Rao, "OEDASA: Optimization Enabled Error-Diluted Approximate Systolic Array Design for an Image Processing Application," in Proc. 37th International Conference on VLSI Design and 23rd International Conference on Embedded Systems (VLSID), Kolkata, India, January 6-10, 2024, pp. 593-598. doi: <https://doi.org/10.1109/VLSID60093.2024.00105>

Vinay Rayapati, Sanampudi GopalaKrishna Reddy, Gandhi Ajay Kumar, Gogireddy Ravikiran Reddy and Madhav Rao, "EBACA: Efficient Bfloat16-based Activation Function Implementation Using Enhanced CORDIC Architecture," in Proc. 37th International Conference on VLSI Design and 23rd International Conference on Embedded Systems (VLSID), Kolkata, India, January 6-10, 2024, pp. 605-610. doi: <https://doi.org/10.1109/VLSID60093.2024.00105>

S. R. Nagalakshmi and Meenakshi D'Souza, "Coverage Criteria Based Testing of IoT Applications," in Proc. International Conference on Distributed Computing and Intelligent Technology (ICDCIT 2024), Bhubaneswar, India, January 17-20, 2024, pp. 101-116. doi: https://doi.org/10.1007/978-3-031-50583-6_7

Yashwant Moses and Madhav Rao, "A Fixed-Point Pre-Processing Hardware Architecture Design for Complex Independent Component Analysis," in Proc. 29th Asia and South Pacific Design Automation Conference (ASP-DAC), Incheon, Republic of Korea, January 22-25, 2024, pp. 244-249. doi: <https://doi.org/10.1109/ASP-DAC58780.2024.10473838>

Mauro D. L. Tosi, Vinu E. Venugopal and Martin Theobald, "TensAIR: Real-Time Training of Neural Networks from Data-streams," in Proc. 8th International Conference on Machine Learning and Soft Computing (ICMLSC '24), Singapore, January 26-28, 2024, pp. 73-82. doi: <https://doi.org/10.1145/3647750.3647762>

Harshita Gupta, Mayank Kabra, Asmita Zjigyasu and Madhav Rao, "PA-SIE: Pixel-Attack Methodology Factored Selective Image Encryption Scheme for Low Resource Edge Computing Systems," in Proc. IEEE International Conference on Big Data and Smart Computing (BigComp), Bangkok, Thailand, February 18-21, 2024, pp. 109-116. doi: <https://doi.org/10.1109/BigComp60711.2024.00026>

Nittheekant R, Brij Bidhin Desai, Madhav Rao and Yukta Rajapur, "Predictive Drug Quality Control Using Machine Learning and Big Data," in Proc. IEEE International Conference on Big Data and Smart Computing (BigComp), Bangkok, Thailand, February 18-21, 2024, pp. 381-382. doi: <https://doi.org/10.1109/BigComp60711.2024.00079>

V P Vivek, Raghuram Bharadwaj Diddigi and Shalabh Bhatnagar, "Dynamic Energy Management in Competing Microgrids using Reinforcement Learning," in Proc. IEEE Power & Energy Society Innovative Smart Grid Technologies Conference (ISGT), Washington; USA, February 19-22, 2024, 5p. doi: <https://doi.org/10.1109/ISGT59692.2024.10454198>

Zu Zu Aung and G R Sinha, "Unveiling Insights: A Machine Learning Approach to Decipher Student Sentiments in Computer University of Myanmar," in Proc. 2nd International Conference on Emerging Trends in Information Technology and Engineering (ICETITE), Vellore; India, February 22-23, 2024, . doi: <https://doi.org/10.1109/ic-ETITE58242.2024.10493361>

Ganesh and Sujit Kumar Chakrabarti, "Safeguarding Controller Variables from SEUs using Static Analysis," in Proc. 17th Innovations in Software Engineering Conference (ISEC 2024), Bangalore, India, February 22-24, 2024, pp. 441-444. doi: <https://doi.org/10.1145/3641399.3641471>

Prashanth Jonna, Anshul Madurwar, Aamod BK and Madhav Rao, "Design of 6-DoF Holonomic Drive-based Upper and Lower-Limb Stroke Rehabilitation System," in Proc. 2024 10th International Conference on Automation, Robotics and Applications (ICARA), Athens; Greece, February 22-24, 2024, pp.233-239. doi: <https://doi.org/10.1109/ICARA60736.2024.10552936>

Dhanva Eledath, Arun Baby and Shatrughan Singh, "Robust Speech Recognition Using Meta-Learning for Low-Resource Accents," in Proc. National Conference on Communications (NCC), Chennai; India, 28 February 28, 2024 - March 02, 2024, 6p. doi: <https://doi.org/10.1109/NCC60321.2024.10485786>

S Shrinidhi Rao and Subir Kumar Roy, "A Novel Scalable Hybrid Threat Analysis and Risk Assessment Engine for an Automotive Subsystem," in Proc. IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI), Gwalior, India, March 14-16, 2024, 6p. doi: <https://doi.org/10.1109/IATMSI60426.2024.10503203>

Divyansh Singhal, Chinmay Sultania, Anshul Madurwar, Mayank Kabra and Madhav Rao, "Braille on Mouse - Enhancing Accessibility of Digital Education for Visually Challenged," in Proc. 16th International Conference on Computer and Automation Engineering (ICCAE), Melbourne, Australia, March 14-16, 2024, pp. 41-45. doi: <https://doi.org/10.1109/ICCAE59995.2024.10569774>

Yash Gupta, Kushal Partani and Madhav Rao, "Machine Learning powered E-Nose for Liquid Food Classification," in Proc. 16th International Conference on Computer and Automation Engineering (ICCAE), Melbourne, Australia, March 14-16, 2024, pp. 357-361. doi: <https://doi.org/10.1109/ICCAE59995.2024.10569354>

Chinmay Sultania, Divyansh Singhal, Siddharth Chauhan, Madhav Rao and Vikas Vazhiyal, "Real-Time Surgical Tool Classification and Characterization with Surface-EMG Signals," in Proc. 16th International Conference on Computer and Automation Engineering (ICCAE), Melbourne, Australia, March 14-16, 2024, pp. 373-377. doi: <https://doi.org/10.1109/ICCAE59995.2024.10569465>

Yash Gupta, Yogesh Goyal, Siddharth Chauhan and Madhav Rao, "Design of a CNN Based Autonomous Sitting Posture Recognition System," in Proc. 16th International Conference on Computer and Automation Engineering (ICCAE), Melbourne, Australia, March 14-16, 2024, pp. 437-441. doi: <https://doi.org/10.1109/ICCAE59995.2024.10569487>

Lokesh Maji, Aman Prajapati and Madhav Rao, "Design and Evaluation of Parametric NTT Hardware Unit using different Multiplier based Modular Reduction Techniques," in Proc. 25th International Symposium on Quality Electronic Design (ISQED), San Francisco, CA, USA, April 3-5, 2024, 6p. doi: <https://doi.org/10.1109/ISQED60706.2024.10528765>

Ajay B S, Phani Pavan K and Madhav Rao, "DESPINE: NAS generated Deep Evolutionary Adaptive Spiking Network for Low Power Edge Computing Applications," in Proc. 25th International Symposium on Quality Electronic Design (ISQED), San Francisco, CA, USA, April 3-5, 2024, 8p. doi: <https://doi.org/10.1109/ISQED60706.2024.10528734>

Bindu G. Gowda, H C Prashanth, V N Muralidhara and Madhav Rao, "Efficient Radix-4 Approximated Modified Booth Multiplier for Signal Processing and Computer Vision: A Probabilistic Design Approach," in Proc. 25th International Symposium on Quality Electronic Design (ISQED), San Francisco, CA, USA, April 3-5, 2024, 8p. doi: <https://doi.org/10.1109/ISQED60706.2024.10528737>

Mahati Basavaraju, Vinay Rayapati and Madhav Rao, "Exploring Hardware Activation Function Design: CORDIC Architecture in Diverse Floating Formats," in Proc. 25th International Symposium on Quality Electronic Design (ISQED), San Francisco, CA, USA, April 3-5, 2024, 8p. doi: <https://doi.org/10.1109/ISQED60706.2024.10528686>

BNTejas, Rakshit Bhatia and Madhav Rao, "HISPE: High-Speed Configurable Floating-Point Multi-Precision Processing Element," in Proc. 25th International Symposium on Quality Electronic Design (ISQED), San Francisco, CA, USA, April 3-5, 2024, 8p. doi: <https://doi.org/10.1109/ISQED60706.2024.10528733>

Dantu Nandini Devi, Gandi Ajay Kumar, Bindu G. Gowda and Madhav Rao, "Performance-Aware Design of Approximate Integrated MAC Factored Systolic Array Accelerators," in Proc. 25th International Symposium on Quality Electronic Design (ISQED), San Francisco, CA, USA, April 3-5, 2024, 8p. doi: <https://doi.org/10.1109/ISQED60706.2024.10528695>

Dantu Nandini Devi, Gandi Ajay Kumar, Bindu G. Gowda and Madhav Rao, "PSO Optimized Design of Error Balanced Weight Stationary Systolic Array Architecture for CNN," in Proc. 25th International Symposium on Quality Electronic Design (ISQED), San Francisco, CA, USA, April 3-5, 2024, 8p. doi: <https://doi.org/10.1109/ISQED60706.2024.10528731>

H C Prashanth and Madhav Rao, "Roofline Performance Analysis of DNN Architectures on CPU and GPU Systems," in Proc. 25th International Symposium on Quality Electronic Design (ISQED), San Francisco, CA, USA, April 3-5, 2024, 8p. doi: <https://doi.org/10.1109/ISQED60706.2024.10528752>

Sooraj Sathish, Keshav Goyal and Shrisha Rao, "Auction of Pollution Permits in a Multi-Pollutant Setting," in Proc. IEEE Green Technologies Conference (GreenTech), Springdale, AR, USA, April 03-05, 2024, pp; 121-125. doi: <https://doi.org/10.1109/GreenTech58819.2024.10520613>

Sasirekha GVK, Mokshananda Reddy Bhumireddy, Madhav Rao, Jyotsna Bapat and Debabrata Das, "Ethical Design of Edge-based Smart Irrigation System by use Case Analysis," in Proc. IEEE 13th International Conference on Communication Systems and Network Technologies (CSN), Jabalpur, India, April 06-07, 2024, pp. 491-498. doi: <https://doi.org/10.1109/CSNT60213.2024.10545792>

Anindita Dasgupta and Uttam Kumar, "Interactive influence of urban heat island and urban pollution island in two major cities of India (Bangalore and Delhi)," in Proc. International Conference on Machine Intelligence for GeoAnalytics and Remote Sensing (MIGARS), Wellington; New Zeland, April 8-10, 2024, 3p. doi: <https://doi.org/10.1109/MIGARS61408.2024.10544391>

Neha Tarigopula, Preyas Garg, Skanda Muralidhar, Sandrine Tornay, Dinesh Babu Jayagopi and Mathew Magimai.-Doss, "Content-Based Objective Evaluation of Artificially Generated Sign Language Videos," in Proc. IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Seoul, Republic of Korea, April 14-19, 2024, pp. 3815-3819. doi: <https://doi.org/10.1109/ICASSP48485.2024.10448192>

Anindita Dasgupta and Uttam Kumar, "Bangalore Coming Closer to It's Satellite Town : Overview of Urban Sprawl in The City," in Proc. IEEE Mediterranean and Middle-East Geoscience and Remote Sensing Symposium (M2GARSS), Oran, Algeria, April 15-17, 2024, pp. 549-552. doi: <https://doi.org/10.1109/M2GARSS57310.2024.10537367>

Nidhish Bhimrajka, Ashish Choudhury and Supreeth Varadarajan, "Network-Agnostic Multi-party Computation Revisited (Extended Abstract)," in Proc. 27th IACR International Conference on Practice and Theory of Public-Key Cryptography - Public-Key Cryptography (PKC 2024), Sydney, NSW, Australia, April 15-17, 2024, pp.171-204. doi: https://doi.org/10.1007/978-3-031-57722-2_6

Rajavelsamy R, Ganesha, Aswin S, Bharath Kumar R, Sriganesh and Debabrata Das, "A Novel Method of Determining an Authentic Cell in Next Generation Cellular Communication System," in Proc. IEEE Wireless Communications and Networking Conference (WCNC), Dubai, United Arab Emirates, April 21-24, 2024, 6p. doi: <https://doi.org/10.1109/WCNC57260.2024.10571142>

Dwikul Jyoti Das, Sai Teja Kollimarla, Ekant Sharma and Prem Singh, "OTFS Aided Full-Duplex Cell-Free Massive MIMO," in Proc. IEEE Wireless Communications and Networking Conference (WCNC), Dubai, United Arab Emirates, April 21-24, 2024, 6p. doi: <https://doi.org/10.1109/WCNC57260.2024.10570668>

Suhail Farhaan Shaik, Samudrala Soujanya, Prem Singh and Ekant Sharma, "Two-Fold Physical Layer Security for OTFS-Aided RIS Communication," in Proc. IEEE Wireless Communications and Networking Conference (WCNC), Dubai, United Arab Emirates, April 21-24, 2024, 6p. doi: <https://doi.org/10.1109/WCNC57260.2024.10570849>

Janvi Chhabra, Jayati Deshmukh and Srinath Srinivasa, "Modelling the Dynamics of Subjective Identity in Allocation Games," in Proc. 23rd International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2024), Auckland, New Zealand, May 6–10, 2024, pp. 2207-2209. doi: <https://www.ifaamas.org/Proceedings/aamas2024/pdfs/p2207.pdf>

Karthik Sama, Jayati Deshmukh and Srinath Srinivasa, "Social Identities and Responsible Agency," in Proc. 23rd International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2024), Auckland, New Zealand, May 6–10, 2024, pp. 2450-2452. doi: <https://www.ifaamas.org/Proceedings/aamas2024/pdfs/p2450.pdf>

Niharika Sri Parasa, Chaitali Diwan, Srinath Srinivasa and Prasad Ram, "An Automated Approach for Generating Conceptual Riddles," in Proc. 28th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2024), Taipei, Taiwan, May 7–10, 2024, pp. 160-172. doi: https://doi.org/10.1007/978-981-97-2266-2_13

Taru Jain and Preeti Mudliar, "Platforming PCOS Treatment Online: FemTech Logics of Care," in Proc. CHI Conference on Human Factors in Computing Systems (CHI '24), Hawaii; USA, May 11 - 16, 2024. doi: <https://doi.org/10.1145/3613904.3642882>

Vinay Rayapati, Ravi Kiran Reddy Gogireddy, Ajay Kumar Gandhi, Saketh Gajawada, Gopala Krishna Reddy Sanampudi and Nanditha Rao, "FPGA-based Hardware Software Co-design to Accelerate Brain Tumour Segmentation," in Proc. IEEE International Symposium on Circuits and Systems (ISCAS), Singapore, May 19-22, 2024, 5p. doi: <https://doi.org/10.1109/ISCAS58744.2024.10558230>

Jay Shah and Nanditha Rao, "Hybrid Multi-tile Vector Systolic Architecture for Accelerating Convolution on FPGAs," in Proc. IEEE International Symposium on Circuits and Systems (ISCAS), Singapore, May 19-22, 2024, 5p. doi: <https://doi.org/10.1109/ISCAS58744.2024.10558268>

Ajay B S, Madhav Rao and Phani Pavan K, "Neuromorphic Energy Efficient Stress Detection System using Spiking Neural Network," in Proc. IEEE International Symposium on Circuits and Systems (ISCAS), Singapore, May 19-22, 2024, 5p. doi: <https://doi.org/10.1109/ISCAS58744.2024.10558058>

Mahati Basavaraju, Vinay Rayapati and Madhav Rao, "POCO: Hardware Characterization of Activation Functions using POSIT-CORDIC Architecture," in Proc. IEEE International Symposium on Circuits and Systems (ISCAS), Singapore, May 19-22, 2024, 5p. doi: <https://doi.org/10.1109/ISCAS58744.2024.10558487>

Chithambara Moorthii J, Vinay Rayapati, Nanditha Rao and Manan Suri, "VPU-CIM: A 130nm, 33.98 TOPS/W RRAM based Compute-In-Memory Vector Co-Processor," in Proc. IEEE International Symposium on Circuits and Systems (ISCAS), Singapore, May 19-22, 2024, 5p. doi: <https://doi.org/10.1109/ISCAS58744.2024.10558155>

Asilata Karandikar, "What Makes Consent Meaningful?," in Proc. Companion Publication of the 16th ACM Web Science Conference (WebSci Companion '24), Stuttgart Germany, May 21 - 24, 2024, pp. 42-46. doi: <https://doi.org/10.1145/3630744.3658616>

Kavya Agarwal, Ritesh Lalwani, U Abeena and Kurian Polachan, "VLC-LE: Energy-Efficient and Secure Visible Light Communication for the Internet of Bodies," in Proc. International Conference on Smart Applications, Communications and Networking (SmartNets), Varginia; USA, May 28-30, 2024, 6p. doi: <https://doi.org/10.1109/SmartNets61466.2024.10577745>

Pratyush Nandi, Anubhav Mishra and Madhav Rao, "GOLDS: Genetic Algorithm-based Optimization of Custom FPGA Architecture Layout Design for Secure Silicon," in Proc. Great Lakes Symposium on VLSI 2024 (GLSVLSI '24), Florida; USA June 12 - 14, 2024, pp. 92-97. doi: <https://doi.org/10.1145/3649476.3658743>

Phani Pavan Kambhampati, Ajay B S and Madhav Rao, "Energy Efficient Multi-Modal Stress Detection System with Dynamic Adaptive Spiking Neurons," in Proc. Great Lakes Symposium on VLSI 2024 (GLSVLSI '24), Florida; USA June 12 - 14, 2024, pp. 138-143. doi: <https://doi.org/10.1145/3649476.3658723>

Dantu Nandini Devi, Gandi Ajay Kumar, Bindu G Gowda and Madhav Rao, "Integrated MAC-based Systolic Arrays: Design and Performance Evaluation," in Proc. Great Lakes Symposium on VLSI 2024 (GLSVLSI '24), Florida; USA June 12 - 14, 2024, pp. 292-295. doi: <https://doi.org/10.1145/3649476.3658797>

Prashanth H C and Madhav Rao, "Performance Analysis of OFA-NAS ResNet Topologies Across Diverse Hardware Compute Units," in Proc. Great Lakes Symposium on VLSI 2024 (GLSVLSI '24), Florida; USA June 12 - 14, 2024, pp. 604-607. doi: <https://doi.org/10.1145/3649476.3658811>

Pralay Chakrabarty, Ananya Lakshmi Ravi and Kurian Polachan, "ioPUF: A PUF-based IoT Node Identification Utilizing Pull-Up/Down Resistors on IO Pins," 22nd Mediterranean Electrotechnical Conference (MELECON), Porto, Portugal, June 25-27, 2024, pp. 45-50. doi: <https://doi.org/10.1109/MELECON56669.2024.10608748>

Shab Naz, Ayesha Daniya Mulla, Sumayya H, Rifah Sameen Sarang and Kurian Polachan, "LED-PUF: Physical Unclonable LED Signatures For Unique Identification of IoT Nodes," 22nd Mediterranean Electrotechnical Conference (MELECON), Porto, Portugal, June 25-27, 2024, pp. 862-867. doi: <https://doi.org/10.1109/melecon56669.2024.10608587>

Phani Sriram Vadali, Bhuvan Jayam, Pon Deepika, Madhav Rao and Vikas Vazhayil, "Computer Assisted Phase Recognition of Micro-Neurosurgical Intraoperative Videos," in Proc. IEEE 37th International Symposium on Computer-Based Medical Systems (CBMS), Guadalajara, Mexico, June 26-28, 2024, pp. 456-460. doi: <https://doi.org/10.1109/CBMS61543.2024.00081>



JOURNALS & MAGAZINE ARTICLES

Madhurima Panja, Tanujit Chakraborty, Uttam Kumar and Nan Liu, Epicasting: An Ensemble Wavelet Neural Network for forecasting epidemics, *Neural Networks*, vol. 165, pp. 185-212. August 2023. doi: <https://doi.org/10.1016/j.neunet.2023.05.049>

Satya Jyoti Das, Astha Borkataky, Nithya Ganesan and B. Thangaraju, Unlocking the Potential of Virtualised Network Functions and Service Function Chaining on OpenStack, *Open Source For You*, vol. 11, no. 10, pp. 79-84, August 2023. doi: <https://www.opensourceforu.com/2023/09/unlocking-the-potential-of-virtualised-network-functions-and-service-function-chaining-on-openstack/>

Shubham Aggarwal, Nithya Ganesan, and B. Thangaraju, Integration of Network Functions Virtualization Infrastructure with the DevOps Pipeline, *Open Source For You*, vol. 11, no. 10, pp. 92-98, August 2023. doi: <https://www.opensourceforu.com/2023/09/integration-of-network-functions-virtualization-infrastructure-with-the-devops-pipeline/>

Smith K. Khare, Varun Bajaj, Nikhil B. Gaikwad and G. R. Sinha, Ensemble Wavelet Decomposition-Based Detection of Mental States Using Electroencephalography Signals, *Sensors*, vol. 23, no. 18, 18p., September 2023, Article No. 7860. doi: <https://doi.org/10.3390/s23187860>

Shweta Verma, Venkat Suprabath Bitra, R. Singh, and B. Tirumala Rao, Optical response of Au films for

reproducible Si nano-structuring and its application for efficient micro-drop SERS with portable Raman system, *Materials Chemistry and Physics*, vol. 306, September 2023, Article No. 128058. doi: <https://doi.org/10.1016/j.matchemphys.2023.128058>

Laxmi Gunupudi and Krishnan Dharmarajan, Continuous literacy programs: case for mobile based financial literacy solution, *Decisions*, vol. 50, pp. 349-362, Spetember 2023. doi: <https://doi.org/10.1007/s40622-023-00355-y>

Ashutosh Kumar Singh, Niharika Singh and Ishu Gupta, Cloud-HPA: hierarchical privacy perseverance anatomy for data storage in cloud environment, *Multimedia Tools and Applications*, Online September 2023, pp. 1-21. doi: <https://doi.org/10.1007/s11042-023-16674-2>

Yashwanth Ramamurthi and Amit Chattopadhyay, A Topological Distance Between Multi-Fields Based on Multi-Dimensional Persistence Diagrams, *IEEE Transactions on Visualization and Computer Graphics*, Online September 2023, pp. 1-14, (Early Access). doi: <https://doi.org/10.1109/tvcg.2023.3314763>

V.P. Abidha, Pradeesha Ashok, Avi Tomar and Dolly Yadav, Colouring a dominating set without conflicts: q-Subset Square Colouring, *Theoretical Computer Science*, vol. 976, pp. 114-160, October 2023, Article No. 114160. doi: <https://doi.org/10.1016/j.tcs.2023.114160>

Avinash Dixit, Vinay Kulkarni, and V. V. Reddy, Cross Frequency Adaptation for Radar-Based Human Activity Recognition Using Few-Shot Learning, IEEE Geoscience and Remote Sensing Letters, vol. 20, 4p., October 2023, Article No. 3508604. doi: <https://doi.org/10.1109/lgrs.2023.3321216>

Nikunj Gupta, G. Srinivasaraghavan, Swarup Mohalik, Nishant Kumar and Matthew E. Taylor, Hammer: Multi-level coordination of reinforcement learning agents via learned messaging, Neural Computing and Applications, Online October 2023, pp. 1-16. doi: <https://doi.org/10.1007/s00521-023-09096-6>

Apurva Kulkarni, Chandrashekar Ramanathan, and Vinu E. Venugopal, Semantics-Aware Document Retrieval for Government Administrative Data, International Journal of Semantic Computing, vol. 17, no. 03, pp. 477-491, 2023. doi: <https://doi.org/10.1142/s1793351x23300017>

Chakka Sai Pradeep and Neelam Sinha, Surgical phase classification and operative skill assessment through spatial context aware CNNs and time-invariant feature extracting autoencoders, Journal of Applied Biomedicine, vol. 43, no.4, pp. 700-724, October - December 2023. doi: <https://doi.org/10.1016/j.jbbe.2023.10.001>

Eros M. Sunny, Balakrishnan Ashok, Janaki Balakrishnan and Jürgen Kurths, The ocean carbon sinks and climate change, Chaos An Interdisciplinary Journal of Nonlinear Science, vol. 33, no. 10, pp. 103134. doi: <https://doi.org/10.1063/5.0164196>

Shaik Mohammed Waseem and Subir Kumar Roy, FPGA implementation of Proximal Policy Optimization algorithm for Edge devices with application to Agriculture Technology, Journal of Ambient Intelligence and Humanized Computing, vol. 14, no.

10, pp. 14141 - 14152, October 2023. doi: <https://doi.org/10.1007/s12652-022-04117-z>

Sachit Rao and Shrisha Rao, Finite-time consensus for leader-follower and leaderless swarms in the presence of malicious agents, International Journal of Control, vol. 96, no. 10, pp. 2623-2635, October 2023. doi: <https://doi.org/10.1080/00207179.2022.2106897>

Archit Sangal and B. Thangaraju, Do I/O Schedulers Perform Better in Virtual Machines or in Docker Containers?, Open Source For You, vol, 11, no. 12, pp. 89-92, October 2023. doi: <https://www.opensourceforu.com/>

Soham Joshi, Arpitha Malavalli and Shrisha Rao, From multimodal features to behavioural inferences: A pipeline to model engagement in human-robot interactions, PLOS ONE, vol.18, no.11, November 2023, Article no. e0285749. doi: <https://doi.org/10.1371/journal.pone.0285749>

Deepika Saxena, Ishu Gupta, Rishabh Gupta, Ashutosh Kumar Singh and Xiaoqing Wen, An AI-Driven VM Threat Prediction Model for Multi-Risks Analysis-Based Cloud Cybersecurity, IEEE Transactions on Systems, Man, and Cybernetics: Systems, vol. 53, no. 11, pp. 6815 - 6827, November 2023. doi: <https://doi.org/10.1109/TSMC.2023.3288081>

Jaya Sreevalsan-Nair, Anuj Mubayi, Janvi Chhabra, Reddy Rani Vangimalla and Pritesh Rajesh Ghogale, Evaluating early pandemic response through length-of-stay analysis of case logs and epidemiological modeling: A case study of Singapore in early 2020, Computational and Mathematical Biophysics, vol. 11, no. 1, November 2023, Article no. 20230104. doi: <https://doi.org/10.1515/cmb-2023-0104>

Karishma and Shrisha Rao, Cooperative solutions to exploration tasks under speed and budget constraints, *Journal of Simulation*, vol. 17, no. 6, pp. 676-687, 2023. doi: <https://doi.org/10.1080/17477778.2022.2043792>

Nishant Arya, Anupama Rajoriya, Prem Singh and Rohit Budhiraja, Variational Bayesian Learning Based Delay-Doppler Channel Estimator For Multi-User OTFS Systems, *IEEE Communications Letters*, vol. 27, no. 12, pp. 3355 - 3359, December 2023. doi: <https://doi.org/10.1109/LCOMM.2023.3326838>

Sin Liang Lim, Jaya Sreevalsan-Nair and B. S. Daya Sagar, Multispectral data mining: A focus on remote sensing satellite images, *WIREs Data Mining and Knowledge Discovery*, Online November 2023, Article no. e1522. doi: <https://doi.org/10.1002/widm.1522>

Prakhar Mishra, Chaitali Diwan, Srinath Srinivasa and G. Srinivasaraghavan, AI based approach to trailer generation for online educational courses, *CSI Transactions on ICT*, Online November 2023,. doi: <https://doi.org/10.1007/s40012-023-00390-1>

Rahisha Thottolil, Uttam Kumar and Tanujit Chakraborty, Prediction of transportation index for urban patterns in small and medium-sized Indian cities using hybrid RidgeGAN model, *Scientific Reports*, vol. 13, no. 1, Article No. 21863, December 2023. doi: <https://doi.org/10.1038/s41598-023-49343-3>

Anuradha Mitra, V. Sridhar and Gopal K. Sarangi, Way leaves, rights of way and ducting policies for 5G mobile network deployment in India using international best practices, *Digital Policy Regulation and Governance*, Online December 2023. doi: <https://doi.org/10.1108/dprg-03-2023-0037>

Deep Inder Mohan, Arjun Verma & Shrisha Rao, Modelling prejudice and its effect on societal prosperity, *Journal of Simulation*, vol. 177, no. 6, pp. 647-657, 2023 (Published Online March 2022). doi: <https://doi.org/10.1080/17477778.2022.2039570>

Rahisha Thottolil, Uttam Kumar and Tanujit Chakraborty, Prediction of transportation index for urban patterns in small and medium-sized Indian cities using hybrid RidgeGAN model, *Scientific Reports*, vol. 13, Article number: 21863, December 2023. doi: <https://doi.org/10.1038/s41598-023-49343-3>

Ranjani Niranjana and Sachit Rao, Classification with Trust: A Supervised Approach based on Sequential Ellipsoidal Partitioning, *IEEE Transactions on Knowledge and Data Engineering*, vol. 13, Article number: 21863, December 2023. doi: <https://doi.org/10.1109/TKDE.2023.3345658>

H C Prashanth and Madhav Rao, Accelerated and Highly Correlated ASIC Synthesis of AI Hardware Subsystems Using CGP, *IET Computers & Digital Techniques*, vol. 2024, 23p., January 2024, Article no. 6623637. doi: <https://doi.org/10.1049/2024/6623637>

Ali Abedi, Chinchu Thomas, Dinesh Babu Jayagopi and Shehroz S. Khan, Bag of states: a non-sequential approach to video-based engagement measurement, *Multimedia Systems*, vol. 30, January 2024, Article No. 47. doi: <https://doi.org/10.1007/s00530-023-01244-1>

Tanujit Chakraborty, Ujjwal Reddy K, Shraddha M Naik Madhurima Panja and Bayapureddy Manvitha, Ten Years of Generative Adversarial Nets (GANs): A survey of the state-of-the-art, *Machine Learning: Science and Technology*, vol. 5, no. 1, 35p., January 2024. doi: <https://doi.org/10.1088/2632-2153/ad1f77>

Preeti Mudliar, Representing the adarsh biometric balak or the ideal biometric child: locating poor children's care work in the Aadhaar welfare state, *Information, Communication and Society*, vol. 27, no. 5, pp. 665-682, February 2024. doi: <https://doi.org/10.1080/1369118X.2024.2305148>

Laetitia A. Renier, Kumar Shubham, Rahil Satyanarayan Vijay, Swasti Shreya Mishra, Emmanuelle P. Kleinlogel, Dinesh Babu Jayagopi and Marianne Schmid Mast, A deepfake-based study on facial expressiveness and social outcomes, *Scientific Reports*, vol. 14, February 2024, Article No. 3642.. doi: <https://doi.org/10.1038/s41598-024-53475-5>

Sheldon McCall, Shina Samuel Kolawole, Afreen Naz, Liyun Gong, Syed Waqar Ahmed, Pandey Shourya Prasad, Miao Yu, James Wingate and Saeid Pourroostaei Ardakani, Computer Vision based Transfer Learning-Aided Transformer Model for Fall Detection and Prediction, *IEEE Access*, vol. 12, pp. 28798 - 28809, February 2024. doi: <https://doi.org/10.1109/ACCESS.2024.3368065>

Arvind Upreti and V. Sridhar, Assessing the Effect of Task Automation in Labor Markets: Case of IT Services Industry, *IEEE Transactions on Technology and Society*, vol. 5, no. 1, pp. 107-117, March 2024. doi: <https://doi.org/10.1109/TTS.2024.3365423>

Apurva Kulkarni, Chandrashekhar Ramanathan and Vinu E. Venugopal, Toward Sustainable Data Practices: Integrating Open Data With SDG-Based Data Lake Frameworks, *IEEE Technology and Society Magazine*, vol. 43, no. 1, pp. 62-69, March 2024. doi: <https://doi.org/10.1109/MTS.2024.3365591>

Annapurna Sharma and Dinesh Babu Jayagopi, Modeling essay grading with pre-trained BERT

features, *Applied Intelligence*, vol. 54, no.6, pp. 4979 - 4993, March 2024. doi: <https://doi.org/10.1007/s10489-024-05410-4>

Sharvari Ravindran, Saptarshi Chaudhuri, Jyotsna Bapat and Debabrata Das, Novel Adaptive Multi-User Multi-Services Scheduling to Enhance Throughput in 5G-Advanced and Beyond, *IEEE Transactions on Network and Service Management*, vol. 21, no. 2, pp.2323-2338, April 2024. doi: <https://doi.org/10.1109/TNSM.2024.3351669>

Soham Das, Nanditha Rao, D. V. S. Phanindra and Sridharan Rengaswamy, SolarAccel: FPGA accelerated 2D cross-correlation of digital images: Application to solar adaptive optics, *Journal of Astrophysics and Astronomy*, vol. 45, no. 16, 8p., May 2024. doi: <https://doi.org/10.1007/s12036-024-10003-1>

Sateeshkrishna Dhuli, Fouzul Atik, Anamika Chhabra, Prem Singh and Linga Reddy Cenkeramaddi, Performance Analysis of Gossip Algorithms for Large Scale Wireless Sensor Networks, *IEEE Open Journal of the Computer Society*, vol. 5, pp.290-302, May 2024. doi: <https://doi.org/10.1109/OJCS.2024.3397345>

Ashish Choudhury, Almost-surely terminating asynchronous Byzantine agreement against general adversaries with optimal resilience, *Theoretical Computer Science*, vol. 995, May 2024, Article no. 114492. doi: <https://doi.org/10.1016/j.tcs.2024.114492>

Chinchu Thomas, Prateksha Udhayanan, Ayush Yadav, Seethamraju Purvaj and Dinesh Babu Jayagopi, Multimodal Unsupervised Domain Adaptation for Predicting Speaker Characteristics from Video, *SN Computer Science*, vol. 5,, May 2024, Article number 531. doi: <https://doi.org/10.1007/s42979-024-02723-6>

Ishu Gupta, Deepika Saxena, Ashutosh Kumar Singh and Chung-Nan Lee, A Multiple Controlled Toffoli Driven Adaptive Quantum Neural Network Model for Dynamic Workload Prediction in Cloud Environments, IEEE Transactions on Pattern Analysis and Machine Intelligence, May 2024, 16p. (Early Access). doi: <https://doi.org/10.1109/TPAMI.2024.3402061>

Gaurav Jajoo and Prem Singh, Modulation Classification for Overlapped Signals Using Deep Learning, IEEE Open Journal of the Communications Society, vol. 5, pp. 3839 - 3851, June 2024. doi: <https://doi.org/10.1109/OJCOMS.2024.3416750>

Karthika Venkatesan and Sujit Kumar Chakrabarti, A fresh look on semantics of Concurrent State Based Language (ConStaBL), Journal of Computer Languages, vol. 79, June 2024, Article no. 101270. doi: <https://doi.org/10.1016/j.cola.2024.101270>

Youngrim Kim, Megan Finn and Janaki Srinivasan, Epistemologies of missing data: COVID dashboard builders and the production and maintenance of marginalized COVID data, Big Data and Society, Online June 2024. doi: <https://doi.org/10.1177/20539517241259666>

Sindhu Mathai, Parvathi Krishnan and Jaya Sreevalsan-Nair, Understanding Graphical Literacy Using School Students' Comprehension Strategies, Contemporary Education Dialogue, Online June 2024. doi: <https://doi.org/10.1177/0973184924124>

Prarthana U. Shangbag, Karishma Chauhan and B. Thangaraju, Deploying Jenkins X for enhancing CI/CD and Cloud -Native transition, Open Source For You, vol, 12, no. , pp. 87-92, June 2024.

Lakshmi Mandal, Raghuram Bharadwaj Diddigi and Shalabh Bhatnagar, Variance-Reduced Deep Actor-Critic with an Optimally Sub-Sampled Actor Recursion, IEEE Transactions on Artificial Intelligence, vol. 5, no. 7, pp. 3607 - 3623, July 2024. doi: <https://doi.org/10.1109/TAI.2024.3379109>

Sachit Rao, Nishant Malpani and Shrisha Rao, A Pontryagin Principle-Based Frequency Governor for Constrained Computing Systems, IEEE Transactions on Control Systems Technology, vol. 32, no. 4, pp. 1442 - 1450, July 2024. doi: <https://doi.org/10.1109/TCST.2024.3373228>

P. R. Priyadarshini, Jyotsna Bapat and Amrita Mishra, Channel and Delay Weighted Response Ratio Scheduler for 5G and Beyond Systems, IEEE Communications Letters, vol. 28, no. 7, pp. 1658 - 1662, July 2024. doi: <https://doi.org/10.1109/LCOMM.2024.3403899>

Sudhakar Rai, Prem Singh, Ekant Sharma, Aditya K. Jagannatham and Lajos Hanzo, Energy Efficiency Optimization of FBMC/OQAM-based Massive MIMO Systems Subject to Electromagnetic Exposure Constraints, IEEE Transactions on Vehicular Technology, July 2024 (Early Access). doi: <https://doi.org/10.1109/TVT.2024.3428974>



PATENTS PUBLISHED

Kurian Polachan, "System and method for visible light communication," published as IPA Number 202341048494 35/2023 on July 19, 2023.

Mayank Kabra, Asmita Zjygyasu, Saketh Gajawada, Yathin Kumar and Madhav Rao, "A system for customizing Integrated Circuit designs," published as IPA 202341036595 35/2023 on September 01, 2023.

Mayank Kabra, Divyansh Singhal, Chinmay Sultania, Soham Pawar, Anshul Marudwar and Madhav Rao, "System and method for assisting visually impaired," published as IPA Number 202341044354 35/2023 on September 01, 2023.

Veerendra S Devaraddi and Nanditha Rao, "Hardware system prototype and method for convolution operation in Convolutional Neural Network (CNN)," published as IPA Number 202341067160 43/2023 on October 27, 2023.

Amitav Chaudhuri, Sachit Srinivasa Rao, Kaustubh Kapure, Yatender Singh and Randhir Swarnkar, "Device and system of harness for exoskeleton," published as IPA Number 202341076623 51/2023 on December 22, 2023.

Tushar Vrind, Lalit Kumar Pathak, Samir Kumar Mishra and Debabrata Das, "A method and system for replacement of energy and capacity-constrained 6G aerial cells," published as EPA Number EP 4309419 on January 24, 2024.

Ramesh Kestur, Madhav Rao, Phani Pavan and Pavan Patil, "A monitoring system for a growth environment," published as IPA Number

202441004323 06/2024 on February 09, 2024. Ramkumar Thirumalli Sureshsah, Mohanraja Balasubramaniam and Debabrata Das, "Methods and systems for providing communication between a multi-sim user equipment and networks," published as DE112022002072T5 on February 29, 2024.

Rajavelsamy Rajadurai, Ganesha S, Aswin Sasthri, Rohini Rajendran, Nivedya Parambath Sasi and Debabrata Das, "Method and apparatus for supporting identity-based cryptography for signalling message protection in a wireless communication system," published as WO2024049146 on March 07, 2024.

Rajavelsamy Rajadurai, Ganesha S, Aswin Sasthri, Rohini Rajendran, Nivedya Parambath Sasi and Debabrata Das, "Systems and methods to support identity-based cryptography for signalling message protection," published as IPA Number 202241050089 10/2024 on March 08, 2024.

Pralay Chakrabarty, Ananya Lakshmi Ravi and Kurian Polachan, "System and method for identification of IoT nodes based on gpio pull-up/down resistors," published as IPA Number 202341070630 14/2024 on April 05, 2024.

Tushar Vrind and Debabrata Das, "System and method for aerial-assisted federated learning," published as IPA Number 202241057733 15/2024 on April 12, 2024.

Ramkumar Thirumalli Sureshsah, Mohanraja Balasubramaniam and Debabrata Das, "Methods and systems for providing communication between a multi-sim user equipment and networks," published as US PA Number US20240129896A1 on April 18, 2024.

Tushar Vrind and Debabrata Das, "System and method for aerial-assisted federated learning," published as US PA Number US20240121622A1 on April 11, 2024.
Tushar Vrind, Lalit Kumar Pathak, Samir Kumar

Mishra and Debabrata Das, "A method and system for replacement of energy and capacity-constrained 6G aerial cells," published as US PA Number US20240196292 on June 13, 2024.

PATENTS GRANTED

Kavin Kumar Thangadorai, Vimal Bastin Edwin Joseph, Kumar Murugesan, Rajkumar Ramasamy, Reuben Varghese George and Debabrata Das, "Methods and systems for providing wi-fi mesh security," Indian Patent Number 473175 (Assigned to Samsung Electronics Co Ltd.) on November 25, 2023.

Anutosh Maitra, Shubhashis Sengupta, Sowmya Rasipuram, Roshni Ramesh, Ramnani Junaid Hamid Bhat, Sakshi Jain, Manish Agnihotri and Dinesh Babu Jayagopi, "Utilizing machine learning models to generate automated empathetic conversations," US Patent Number US 11,854,540 B2 (Assigned to Accenture Global Solutions Ltd.) on December 26, 2023.

Mayank Kabra, Divyansh Singhal, Chinmay Sultania, Soham Pawar, Anshul Marudwar and Madhav Rao, "System and method for assisting visually impaired," Indian Patent Number 528857 (assigned to 1. International Institute of Information Technology, Bangalore 2. Mayank Kabra) on March 18, 2024.

Madhav Rao, Vinay Chandrashekar, Vikas Vazhayil, Laxmi Thenkanidiyoor Rao, Kannepalli Venkata Laxmi Narasinga Rao, Sampath Somanna and Sindu Madappally Gopalakrishnan, "An electrically controlled mechanical integrated wearable device to assist movement of fingers and wrists," Indian Patent Number 530614 (Assigned to 1. National Institute of

Mental Health and Neuro-Sciences 2. International Institute of Information Technology, Bangalore) on March 17, 2024.

Anil Kumar Vengalil and Debabrata Das, "Method and device for robust multipath transmission control protocol (MPTCP) against data sequence signal manipulation attack," Indian Patent Number 533609 (assigned to Council of Scientific and Industrial Research) on April 18, 2024.

Lalith Kumar, Anikethan Ramakrishna Vijaya Kumar, Kundan Tiwari and Debabrata Das, "System and method for downlink uplink collision handling," Indian Patent Number 535976 (Assigned to Samsung Electronics Co Ltd.) on April 30, 2024.

Lalith Kumar, Kundan Tiwari, Debarata Das and Anikethan Ramakrishna Vijaya Kumar, "Method and apparatus for downlink uplink collision handling in wireless communication network," US Patent Number US 11,997,637 B2 (Assigned to Samsung Electronics Co., Ltd.) on May 28, 2024.

Dibakar Das, Jyotsna Bapat, Vikram Seshasai, Vineet Sudhir Bhat, Pushkar Juneja and Debabrata Das, "Multi-class classifier with artificial and anonymous training for data privacy," Indian Patent Number 544748 (Assigned to International Institute of Information Technology Bangalore) on July 11, 2024.



G.R. Sinha, Bidyadhar Subudhi, “Chih-Peng Fan and Humaira Nisar, Introduction to cognitive sensing technologies and applications.” in Cognitive Sensing Technologies and Applications edited by G.R. Sinha, Bidyadhar Subudhi, Chih-Peng Fan and Humaira Nisar, UK: IET Press, 2023. chapter 1, pp. 1-26. doi: https://doi.org/10.1049/PBCE135E_ch1

K. Gopika Gopan and Neelam Sinha, “Challenges in the acquisition of non-invasive brain signals - electroencephalographic signals (EEG),” in Cognitive Sensing Technologies and Applications edited by G.R. Sinha, Bidyadhar Subudhi, Chih-Peng Fan and Humaira Nisar, UK: IET Press, 2023. chapter 6, pp. 131-162. doi: https://doi.org/10.1049/PBCE135E_ch6

Debanjali Bhattacharya and Neelam Sinha, “Cognitive task and workload classification using EEG signal,” in Cognitive Sensing Technologies and Applications edited by G.R. Sinha, Bidyadhar Subudhi, Chih-Peng Fan and Humaira Nisar, UK: IET Press, 2023. chapter 7, pp. 163-192p. doi: https://doi.org/10.1049/PBCE135E_ch7

Smith K. Khare, Nikhil B. Gaikwad, Hesam Akbari, Varun Bajaj and G.R. Sinha “Automatic detection of Parkinson’s disease using non-linear signal decomposition and machine learning techniques,” in Cognitive Sensing Technologies and Applications edited by G.R. Sinha, Bidyadhar Subudhi, Chih-Peng Fan and Humaira Nisar, UK: IET Press, 2023. chapter 8, pp. 193-216. doi: https://doi.org/10.1049/PBCE135E_ch8

Yash Mittal and Uttam Kumar, “Incremental learning of plant diseases and new plant types: Moving towards a smart agriculture system,” in Cognitive Sensing Technologies and Applications edited by G.R. Sinha, Bidyadhar Subudhi, Chih-Peng Fan and Humaira Nisar, UK: IET Press, 2023. chapter 15, pp. 391-410. doi: https://doi.org/10.1049/PBCE135E_ch15

Lea-Tien Tay and Jaya Sreevalsan-Nair, “Disaster susceptibility analysis in remote sensing,” in Cognitive Sensing Technologies and Applications edited by G.R. Sinha, Bidyadhar Subudhi, Chih-Peng Fan and Humaira Nisar, UK: IET Press, 2023. chapter 16, pp. 411-436. doi: https://doi.org/10.1049/PBCE135E_ch16

Rahisha Thottolil and Uttam Kumar, “Topological assessment of road transportation network,” in Cognitive Sensing Technologies and Applications edited by G.R. Sinha, Bidyadhar Subudhi, Chih-Peng Fan and Humaira Nisar, UK: IET Press, 2023. chapter 17, pp. 437-456. doi: https://doi.org/10.1049/PBCE135E_ch17

G.R. Sinha, Bidyadhar Subudhi, Chih-Peng Fan and Humaira Nisar, “Future perspective and research direction in cognitive sensing technologies,” in Cognitive Sensing Technologies and Applications edited by G.R. Sinha, Bidyadhar Subudhi, Chih-Peng Fan and Humaira Nisar, UK: IET Press, 2023. chapter 18, pp. 457-464. doi: https://doi.org/10.1049/PBCE135E_ch18

Srravya Chandhiramowuli, Janaki Srinivasan and Pradyumna Taduri, Precarious Disruption: Revisiting Worker Control and Consent in the Age of Algorithms and Apps in The Sage Handbook of Global Sociology Edited by G.K. Bhambra et.al., Sage, 2023, Chapter 30.

Asoke K. Talukder, Suptendra Nath Sarbadhikari, Erwin Selg and Roland E. Haas, "Digital Twins, Digital Triplets and eXplainable AI, in Precision Health," in Roles and Challenges of Semantic Intelligence in

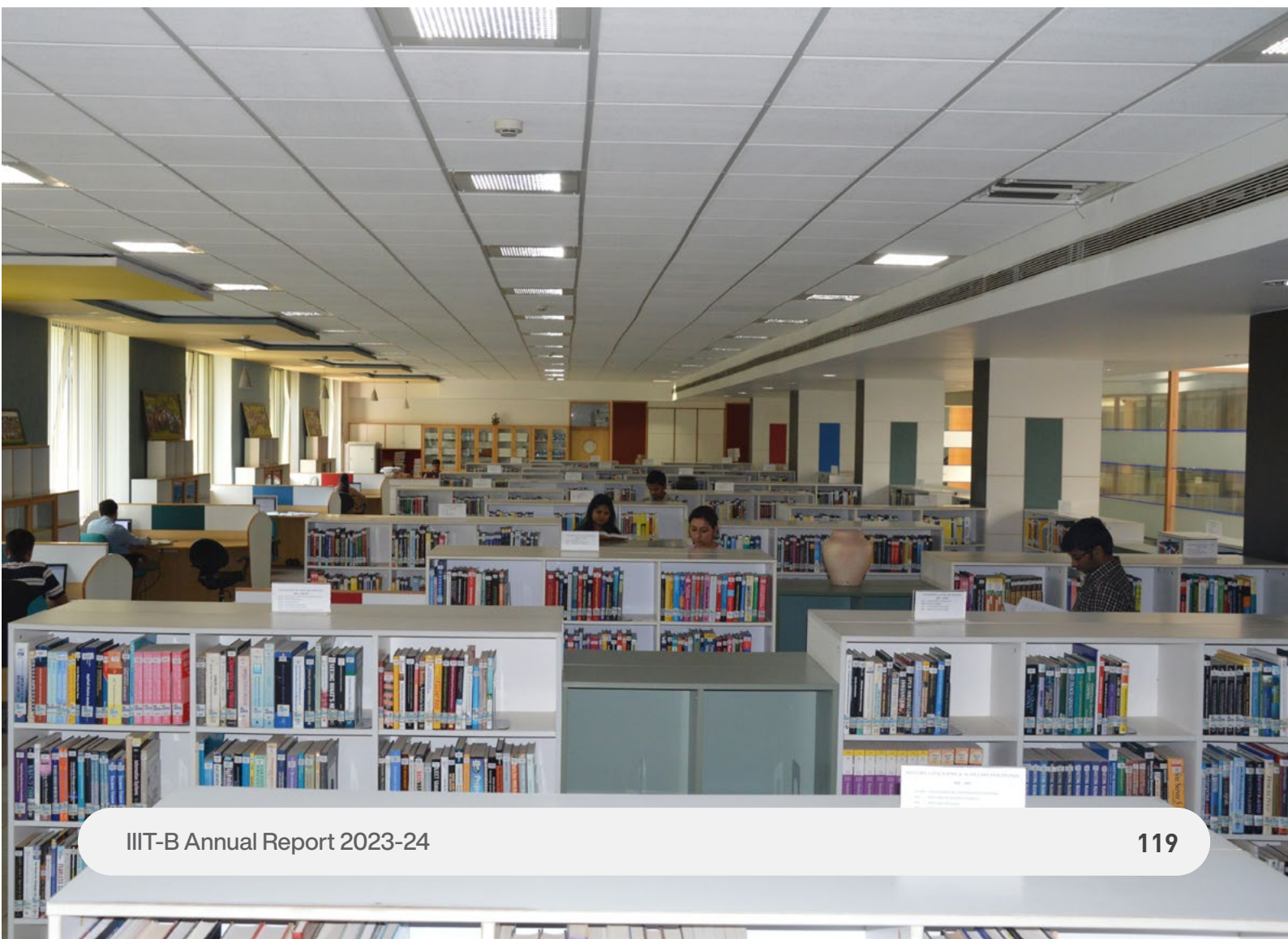
Healthcare Cognitive Computing edited by Antonella Carbonaro et.al., IOS Press, 2024, Chapter 1, pp. 1-30. doi: <https://doi.org/10.3233/SSW230023>

Shaik Mohammed Waseem and Subir Kumar Roy, "Fully convolutional network for edge devices—FPGA implementation and analysis for agriculture technology," in Cyber-Physical Agricultural Systems edited by Seifedine Kadry et.al., Academic Press, 2024, Chapter 10, pp. 175-196. doi: <https://doi.org/10.1016/B978-0-443-13185-1.00010-1>

EDITED BOOKS



G.R. Sinha, Bidyadhar Subudhi, Chih-Peng Fan and Humaira Nisar. Eds., Cognitive Sensing Technologies and Applications, UK: IET Press, 2023. 502p. doi: <https://doi.org/10.1049/PBCE135E>



17

STUDENT ACTIVITIES



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August 19, 2023

Van Samridhi Ujjwala to Mark 77th

Independence Day



The students from NSS Aikyam group orchestrated a tree plantation drive, 'Van Samridhi Ujjwala,' and planted 77 tree saplings (to mark the 77th Independence Day). The saplings were planted in picturesque Sundara Vana on the Somasundara Palya Lake Bed.

Director, Prof. Debabrata Das, Registrar, Commodore SR Sridhar (Retd), Chief Administration Officer, Mr. Jagadish Patil, students, faculty, and staff of IIIT-B gathered to partake in this impactful initiative. The tree plantation drive was a culmination of IIIT-B's efforts to channel the proceeds from the responsible disposal of recyclable plastic towards acquiring and planting tree saplings.

September 5, 2023

Blood Donation Camp



Aikyam-NSS of IIIT-Bangalore organized a social cause event combining a Blood donation and Stem Cell Donor Camp at the campus. This initiative aimed to promote awareness about the critical need for blood and stem cell donations, as well as to encourage students and staff to become potential donors and save lives. The blood donation drive witnessed enthusiastic participation from students, faculty, and staff members. The camp provided a safe and hygienic environment for blood donation and collected more than 100 blood units.

October 14, 2023

Freshers' Day



The Student Activities Council (SAC) provided students with a refreshing break from their routine classes and studies. They organized a fashion show, featuring enthusiastic students in stylish attire, followed by a dynamic dance performance. Simultaneously, the Screening Club organized the screening of an India-Pakistan Cricket match. A DJ was also brought

in for a lively musical night. This successful break was made possible by SAC in collaboration with the Art Club, Music Club, Screening Club, Chhayachitra, and the Food Committee.

October 14, 2023

Swachh Bharat Initiative at IIIT-Bangalore



As a contribution to the Swachh Bharat Mission, the student community of IIIT-Bangalore organized a comprehensive clean-up drive. The initiative saw students coming together to actively participate in various activities aimed at ensuring the proper disposal of waste. Through their collective efforts, they not only contributed to a cleaner environment but also demonstrated their commitment to social responsibility and community engagement.

October 16, 2023

World Food Day



On 'World Food Day,' students used a street play to advocate responsible food consumption and waste prevention. Our Chief Administration Officer, Mr. Jagadish Patil, shed light on food management topics,

urged the audience to avoid wastage and emphasized on conscientious choices for addressing global food challenges.

October 27-29, 2023

Synergy Tech Fest



Around 90 volunteers from various Student Clubs of IIIT-Bangalore came together to organise a tech fest called Synergy' 2023 from October 27-29. There were hackathons, coding competitions and thought provoking discussions. On October 27, a cultural program was also integrated into the tech fest.

February 16-18, 2024

Infin8

IIIT-Bangalore dove headfirst into three days of non-stop fun and excitement with Infin8, much-awaited annual fest. Packed with vibrant shows, competitions, games and food stalls, it was an unforgettable experience for everyone involved. Talented students from across India showcased their skills, turning the event into a thrilling spectacle. What's more, students from other colleges in Bangalore too joined in the fun, making Infin8 a true celebration of creativity. From theatre to solo and group dance performances,

singing and even mobile game competitions, there was something for everyone.



April 18, 2024

Turiya Club Celebrates Ram Navami

IIIT-Bangalore's Turiya Club organized an evening of



divinity for Ram Navami. Ramasevaka Prabhu from ISKCON provided spiritual guidance, while the Music Club performed a captivating rendition of the Nama Ramayana. Students chanted the 108 names of Lord Rama, participated in a Ramayana quiz, and deepened their connection to the deity through this vibrant exchange of knowledge and devotion.

April 20-21, 2024

YMN Conducted by Debate Club

At Yuvamanthan Model United Nations (YMUN) at IIIT-Bangalore, participants debated two key agendas: "Strengthening Democracy in the Current National Context" at AIPPM and "Equity and Justice in Climate Action" at UNFCCC. In AIPPM, discussions emphasized transparency and inclusivity in democracy, while UNFCCC focused on fair policies for sustainable development to combat climate change's unequal



impacts. YMUN encouraged enriching dialogue and a commitment to drive positive change for a sustainable, equitable future.

April 25, 2024

Blood Donation Camp



The Aikyam-NSS, the Social Volunteering Club of IIIT-Bangalore, partnered with Bangalore Medical Services Trust (BMST) to orchestrate a Blood Donation Camp. A total of 107 units of blood were generously contributed by students, faculty, staff and security personnel from the campus.

STUDENT ACHIEVEMENTS



August 2023

i-MTech Students won 1st and 2nd Prize in AFourathon 2023 Hackathon

Two teams from i-MTech won the first and second



prizes in AFourathon 2023 Hackathon. The competition was about following good DevOps practices and deploying a micro-service architecture on the cloud. 1st Prize winner was Team Quack Quad - Rohit Shah, Subhajeet Lahiri & Harsh Kumar. 2nd Prize winner was Team Dockerators - Vidhish Trivedi, Vikas Kalyanapuram & Munagala Kalyan Ram. Both the team implemented end-to-end CI/CD pipeline with unit testing and automated deployment on the AWS infrastructure using technologies like Docker, Github Actions - implementing cloud concepts like scalability with Auto Scaling Groups, high availability by using a multi availability zone deployment strategy.

September 2023

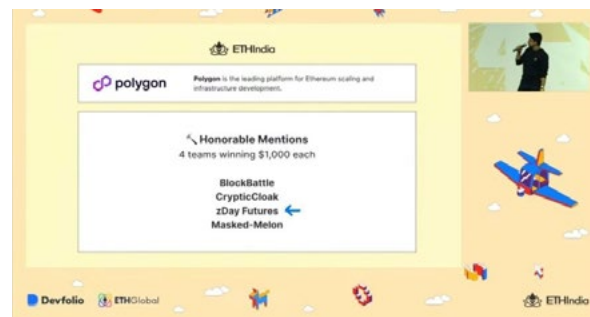
IIIT-Bangalore Students Shine at IEEE Computer Society Bangalore Chapter's Hackathon

Team Kamikazee, comprised of our i-MTech students, Akshat Garg and Agrim Jain, secured the second prize at the Hack the Metaverse hackathon organized by IEEE Computer Society Bangalore, their exceptional achievement earned them a cash prize of ₹. 30,000. Their remarkable project encompassed the creation of a captivating virtual reality (VR) experience, allowing users to pilot a helicopter. The VR setup incorporated a digital dashboard for precise control input and a directional indicator to guide the pilot towards the designated helipad for landing.

The teams MindShift (i-MTech students-Divyanish Singhal, Kushal Partani, and Trupti Khodwe) and The VisionVoyagers (i-MTech students, Chinmay Sultania, Pranav Bhutada, and Dyuthi Vivek) won the consolation prizes at the Hack the Metaverse hackathon and awarded with the cash reward of ₹. 10,000.

December 2023

IIIT-Bangalore Student Tarun Gupta's Team Emerges Victorious at ETHIndia Hackathon



Tarun Gupta, an i-MTech student from IIIT-Bangalore, in collaboration with his teammate Bhavesh from IIT BHU, secured a \$1000 prize from Polygon at the

ETHIndia hackathon organized by ETHGlobal in Bengaluru during December 8-10. Their victorious project, Zero Day Futures, was crafted using crypto like ETH with Chainlink integration.

January 2024

Yash Mogal, Asmita Zjigyasu, Nancy Gupta, Shivangi, Jay Shah were among the top 5 teams selected to present a demo in the VLSID Embedded Systems Design Contest at Kolkata, January 2024. They won a special mention at the event.

January 2024

i-MTech Students Achieve First Runner-Up at National VoyageHacks Hackathon



i-MTech students Shivankar Pilligundla, Hardik Khandelwal and Chaitanya Manas Cheedella were the first runner-up at the TBO.com's VoyageHacks Hackathon. The challenge was to ideate and innovate breakthrough solutions for technology-driven travel platforms. The hackathon was conducted at national level, after multiple rounds of shortlisting only seven teams, including our students were selected for the finale where the teams presented their solutions to a panel of senior leadership at the TBO Technology Center in Gurgaon.

January 27, 2024

Parvaaz Club Earns Runner-Up Spot at SIBM Revelations 2024 Stage Play Event



The Parvaaz club, secured the runners-up position in the stage play competition at the Symbiosis Institute of Business Management's fest Revelations 2024.

February 2024

Sasi Snigdha Yadavalli Honored in Top 60 of NXP's 'Women in Tech' Initiative



Sasi Snigdha Yadavalli (i-MTech Student) was selected as one of the Top 60 women engineering students in the prestigious "Women in Tech" program by NXP. "Women in Tech" program by NXP represents a bold and forward-thinking approach in addressing gender disparities in the tech industry, through its commitment to empowering women, this program stands as a testament to NXP's dedication to diversity, equity and inclusion in the field of technology.

February 2024

i-MTech Team Takes 3rd Place in Prestigious HACK4TKM Hackathon



i-MTech students Pranav Bhutada, Kushal Partani, Yash Gupta and Siddharth Chauhan secured 3rd place in “HACK4TKM” hackathon. HACK4TKM is a National Level Hackathon organized by TKM College of Engineering, Kollam and TKM Institute of Technology, Kollam in collaboration with Innovation and Entrepreneurship Development Centre TKMCE & Institution’s Innovation Council TKMCE on 16 -18th February 2024.

March 2024



The Indian patent for the invention titled “System and Method for Assisting the Visually Impaired” was granted to Mayank Kabra (iMTech) and the International Institute of Information Technology Bangalore. The co-inventors include Divyansh Singhal (iMTech), Chinmay Sultania (iMTech), Soham Pawar (iMTech), Anshul Madurwar (iMTech) and Madhav Rao (Associate Professor).

March 2024

Team AKREDDY Secures 3rd Place at Esummit’24 Investors Vista at IIT Roorkee



i-MTech students Allu Pavan Karthik Reddy and Chillukuru Ashok Reddy (Team AKREDDY) secured the 3rd place at “Investors Vista” competition held during Esummit’24 (Ventura incertus) at IIT Roorkee. Team AKREDDY was mentored by Profs. Amit Prakash, V. Sridhar & Manisha Kulkarni and Dr. Lakshmi Jagannathan, CEO, IIIT-B Innovation Centre.

March 2024

Film Division of IIIT-B’s Parvaaz Club Secures Multiple Awards, Including 1st Prize at JUSFF ‘24



IIIT-Bangalore’s Film Division, part of the theatre club Parvaaz, won 1st prize in the student category at JUSFF ’24 (Jain University Short Film Festival). The team also excelled in other competitions: at Elan & nVision ’24 (IIT Hyderabad), their films “365,” “A Distant Memory,” and “The Mirror’s Image” took 1st, 2nd, and 3rd places, respectively. “A Distant Memory” won 2nd place at Waves ’23 (BITS Goa) and 1st place at Meraz ’24 (IIT Bhilai), with “365” capturing 3rd place.

Varshith Vattikuti wrote, directed, and edited “A Distant Memory,” supported by Charan Ravi (score and sound design), Nathan Verghese (cinematography), Trupti Khodwe (makeup), and Adit Maheshwari (graphic design), featuring performances by Ayush Tiwari, Champa Anitha, Chandrima Nandi, Sparsh Salodkar, and Raghav Khurana. Varshith also crafted “365” and “The Mirror’s Image,” showcasing his talent as a filmmaker.

March 14-16, 2024

iMTech Students Highlight Advances in Digital Education and Surgical Tools at IEEE ICCAE 2024



At the IEEE ICCAE 2024 poster presentation in Melbourne, Australia, i-MTech students Divyansh Singhal and Chinmay Sultania showcased two papers. The first paper, titled “Braille on Mouse – Enhancing Accessibility of Digital Education for Visually Challenged,” co-authored by Anshul Madurwar, Mayank Kabra and Prof. Madhav Rao. The second paper, titled “Real-Time Surgical Tool Classification and Characterization with Surface-EMG Signals,” was authored by Siddharth Chauhan, Prof. Madhav Rao and Vikas Vazhiyal. These presentations were in the areas of advancing accessibility in digital education and real-time surgical tool classification using innovative techniques and signals analysis.

March 29-30

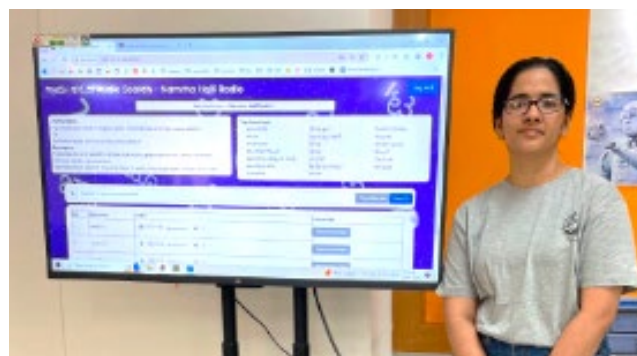
i-MTech Students Shine at IEEE ICCAE 2024



i-MTech students Paras Vekariya, Anwit Damale, and Yash Dharmesh Mogal secured the first prize in Track 3 (Make Sense with CAPSENSE) of CircuitAvishkar iHack hackathon hosted at Reva University. They secured the top spot by developing a groundbreaking pattern recognition system utilizing PSoC4 and CAPSENSE technology. The hackathon was sponsored by IEEE CAS Bangalore Chapter and Infineon.

May 2024

Aparna M Selected as Senior Ambassador in SAGE Program



Aparna M, MS by Research scholar was selected as a senior ambassador in the Sustainability Ambassadors Global Exchange (SAGE) program, spearheaded by the Nordic Center based in Denmark. She joined 3-month training programme as part of a global network comprising participants from 7 countries and 13 Indian states, collaborating on initiatives around sustainability.

STUDENT ADMISSIONS



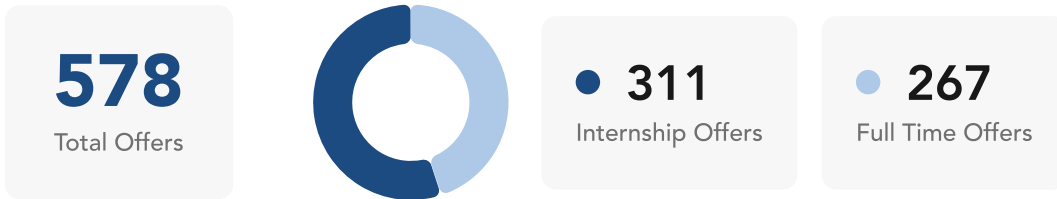
Following table gives the glimpse of the students enrolled for academic programmes during the Academic Year 2023-24

A total of 429 students joined the institute during July-August 2023.

Programme	Male	Female	Total
M.Tech	133	62	195
iMTECH	181	14	195
MSc (DT)	6	6	12
MS by Research	12	2	14
Ph.D	6	7	13
Total Students			429



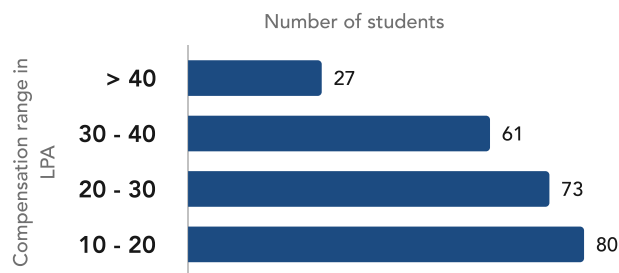
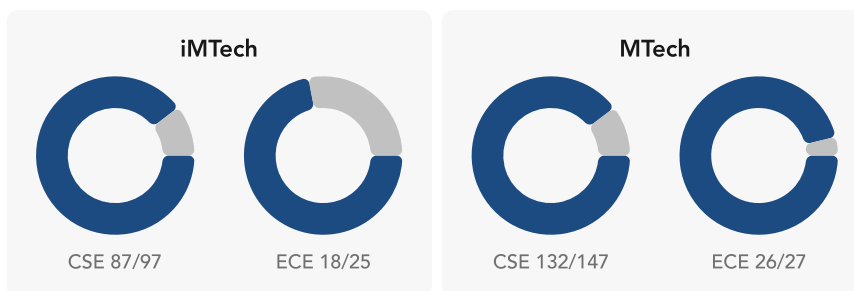
PLACEMENT STATISTICS



OFFER**	METRIC	iMTech		MTech	
		CSE	ECE	CSE	ECE
Full Time CTC# (INR In Lakhs)	Highest	65	65	65	39.3
	Average	33.4	36.2	21.8	29.2
	Median	28.3	36.4	18.9	36.4
Internship Stipend (INR In Thousands)	Highest	177	240	110	60
	Average	69	59.5	55.1	44.6
	Median	55	45	50	45

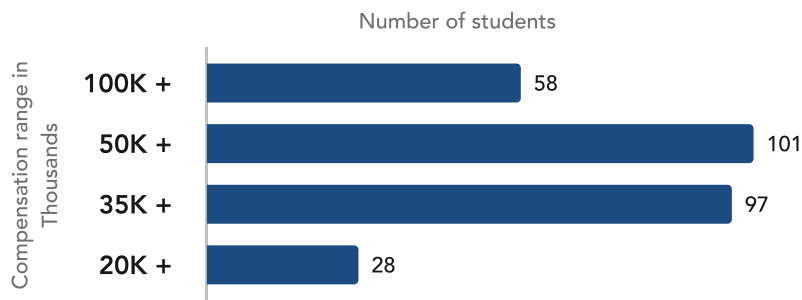
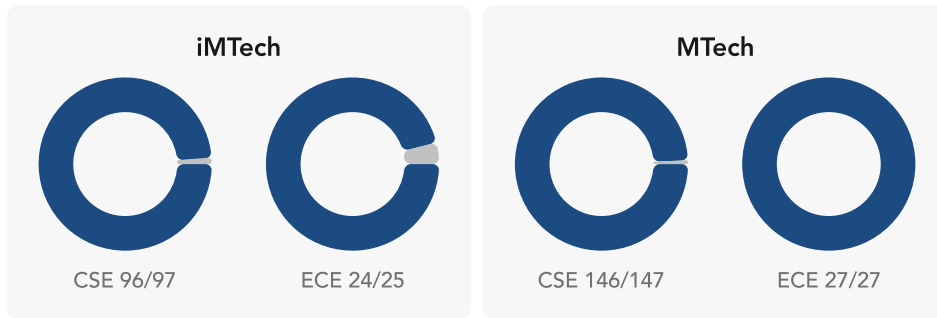
Percentage Of Students - Full Time Employment (FTE)

INR in Lakhs



**Includes Off-Campus Offers *RSUs Included **Includes Academia And Industry Offers

Internship/Thesis



*Includes International Offers

Top Recruiters



FULL TIME RECRUITMENTS

Company Name	Students Recruited
Addverb	2
Amazon	1
Analog Devices	1
Axtria	7
Cisco	5
Cohesity	8
Concert AI	3
Cradle Point	5
CS Disco	1
Dell	7
EHRC	4
Flipkart	2
Goldman Sachs	1
Google - AE	1
Google - SWE	3
HP (Hewlett Packard)	1
HSBC	1
IBM IRL	1
IBM ISDL	10
IBM ISL	1
ICICI	7
IISc	1
Infosys	2
Intuit	1
Kaleyra	3
KPIT	5
Mathworks	6
MBRDI	6
MBRDI (Data Science)	6
Media.Net	1
Media.Net (SRE)	2
MediaTek	3

Meesho	3
Microchip	1
Micron	2
Micron (IT Engg.)	7
MiQ Digital	1
Mobisy	5
Morgan Stanley	4
Netapp	4
Netradyne	3
Nvidia	1
Oracle	15
Outdu	4
Pega Systems	4
Protium	2
Pure Storage	3
Qualcomm	24
RingCentral	10
Samsung	5
Schneider Electric	3
Scienaptic	3
Tailored AI	1
Tesco	8
Texas Instruments	2
Thorogood	2
ThoughtSpot	3
Traceable AI	1
Uber	1
Urban Company	1
Verse	1
VISA	1
Walmart	3
Wells Fargo	17
Western Digital	5
ZentreeLabs	3

INTERNSHIP RECRUITMENTS

Company Name	Students Recruited
Addverb	2
AEOS Labs	1
Aganitha	1
Amazon	20
AMD	1
Analog Devices	2
Axtria	7
Bincang Perempuan	1
Bosch R&D	1
CAGS	2
Carelon Global Solutions	1
Center for Advanced Learning (CFAL)	2
CI Lab	1
Cisco	7
CITAPP	1
CommVault	1
Contlo	3
Cradle Point	5
Cropin	2
CS Disco	1
Dataweave	1
DE Shaw	1
Dell	7
Digiuser	1
DP World	2
DRDO WESEE	1
EHRC	5
Equinix	1
Ericsson	1
Flipkart	3
Goldman Sachs	1

Hotstar	7
HP (Hewlett Packard)	3
HSBC	7
Hyprbots Systems	1
IBM ISDL	10
IBM ISL	1
IIRS Dehradun	2
Infineon (Austria)	1
Infosys	1
Innovation Center IIITB	1
Intuit	1
Jio Tesseract	1
Kaleyra	3
KPIT	2
krtimalQ	1
Mathworks	6
MBRDI	6
Media.Net	1
Media.Net (SRE)	2
MediaTek	3
Meesho	3
Microchip	1
Micron	1
Micron (IT Engg.)	3
Mikrotek	1
MiQ Digital	4
Mirrar	2
Mobisy	5
Morgan Stanley	5
MOSIP	4
mquotient	1
Netapp	5

Netradyne	2
Novo Nordisk	2
Nvidia	4
Outdu	5
PATH India	1
Pega Systems	8
Perfios	1
Piyovi	1
Protium	3
Pure Storage	5
Qualcomm	26
RingCentral	10
Salesforce	1
Samsung	5
Schneider Electric	3
Scienaptic	6
Siemens Technology	3
Singapore Management University	1
Spaulding Ridge LLC	2
Stibo Systems	1
Tailored AI	1
Texas Instruments	2
Thorogood	4
ThoughtSpot	1
Traceable AI	3
Uber	3
Urban Company	1
VISA	1
Walmart	2
Western Digital	5
Whatfix	2
WSL	1

SUMMER INTERNSHIP RECRUITMENTS

Company Name	Students Recruited
Adobe	5
Axtria	1
Cisco	6
Flipkart	1
Google	1
IBM IRL	2
Mathworks	15
Media.net	1
Mobisy	4
Morgan Stanley	3
Oracle	11
Qualcomm	11
Siemens Technology	1
Texas Instruments	2
ThoughtSpot	2
Uber	2
VISA	1
Walmart	6
Wells Fargo	8



18

WE MISS YOU



IN FOND REMEMBRANCE



Mr. C M Abraham

passed away on January 2, 2024

Mr. C M Abraham, who served as Registrar of IIIT-Bangalore from 2001 to 2010, passed away on January 2, 2024 due to a prolonged illness. The entire IIIT-B community mourned the loss of Mr. Abraham, who played a pivotal role in managing various administrative, academic and operational functions at IIIT-Bangalore.



Mr. Ankit Naik

passed away on July 1, 2024

IIIT-Bangalore deeply mourned the death of its alumnus, Mr. Ankit Naik, a 2018 graduate. Our heartfelt condolences went out to his family and friends during the difficult time, as we all remembered and honored the legacy of a remarkable individual who passed away too soon.





International
Institute of Information
Technology Bangalore

19

IIIT-B IN THE NEWS





NATIONAL NEWS

International Institute Of Information Technology Bangalore (IIIT-B) Celebrates Silver Jubilee Year Of Academic Excellence

By India Education Diary ... Last updated Nov 3, 2023

Bangalore - The International Institute of Information Technology Bangalore (IIIT-B) marked a significant milestone by celebrating its silver jubilee year of academic excellence. Established in 1998 with a vision to contribute to the IT industry through education and research, entrepreneurship, and innovation, IIIT-B has established itself as a distinctive institution in the domain of information technology.

"Twenty-five years of dedicated pursuit of knowledge, innovation, and academic excellence have made IIIT-B an institution that truly stands apart," said Prof. Debabrata Das, Director of IIIT-Bangalore, addressing the gathering.

THIS WEEK INDIA COVID 19 Bengaluru Chennai

IIIT-Bangalore and IEEE Computer Society Bangalore Chapter Unveil 'Hack-the-Metaverse'

This Week India September 13, 2023

Bangalore, September 13, 2023: The IEEE Computer Society Bangalore Chapter is thrilled to announce "Hack-the-Metaverse," a groundbreaking Metaverse hackathon set to take place at the prestigious International Institute of Information Technology Bangalore (IIIT-B) from September 12th to 15th, 2023.

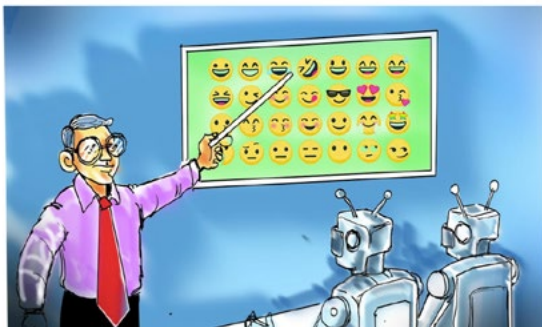
During the press conference, Prof. Debabrata Das, Director of IIIT-Bangalore, enthusiastically conveyed his anticipation, remarking, "This event epitomizes the essence of the future. It provides an extraordinary platform that enables students to delve into the boundless opportunities of the Metaverse while tackling real-world issues. The fusion of education, innovation, and technology on display here is genuinely inspiring. I eagerly await the emergence of inventive solutions from this dynamic event and their potential to shape the trajectory of our digital world."

IIITB researchers develop pipeline for a 'human' engagement with bots

Along with the prediction of engagement, the pipeline can provide deeper insights into human personality, attitudes and emotions and thereby improve the way the robot interacts with the human user

Updated - November 12, 2023 10:40 am IST Published - November 12, 2023 08:36 am IST - Bengaluru

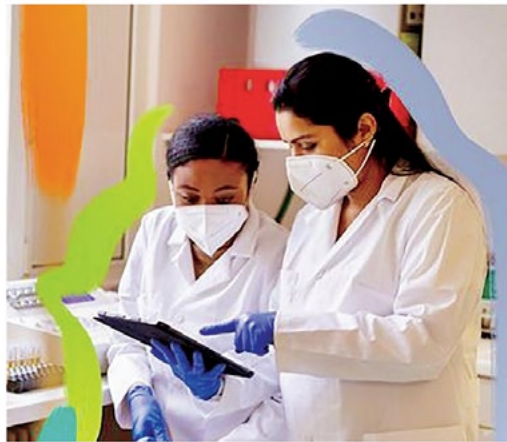
JAHNAVI T.R.



Along with the prediction of engagement, the pipeline can provide deeper insights into human personality, attitudes, and emotions and thereby improve the way the robot interacts with the human user. | Photo Credit: Illustration: Sebastian Francis

While a teacher can always infer if a student is paying attention in the classroom, would an edutech bot know if the lesson on screen is holding his/her attention? The day may not be too far when the distinguishing line between these two kinds of interactions would blur.

Researchers at the International Institute of Informational Technology Bangalore (IIITB) have developed a ready-to-use interpretable pipeline which uses machine learning and psychology for modelling engagement in human-robot interactions. Along with the



Overcoming obstacles: Women's role in India's STEM landscape

2023-10-09

IIIT-Bangalore concludes global valedictorian ceremony for 5,000+ Graduates with upGrad

The hybrid ceremony felicitated learners from Data Science, Software Development, Machine Learning, and Artificial Intelligence certificate programs

Published - September 28, 2023 09:30 am IST - Bengaluru

THE HINDU REALITY



Sindhu Gangachari SVIP and MD at SAP Labs India highlighted the exponential technology evolution in the programme areas offered by the course.

International Institute of Information Technology Bangalore (IIIT-Bangalore) hosted a global graduation ceremony for its learners enrolled in the online Continuing Professional Education (CPE) programme, at the Bengaluru campus.

IIIT-Bangalore announces new East Campus & launch of B.Tech programme

By Dinalipi News ... Last updated Jul 6, 2024 ... 20



Keywords: AI RESEARCHER

Home > Articles > Careers-IT-And-Engineering > Cracking IITs Gets Tougher As Cut-Off For JEE Advanced Increases

Cracking IITs gets tougher as cut-off for JEE Advanced increases

The increase in cut-off by 2.45% in 2024 confirms rising interest and increasing competition for IITs

Shuddhanta Patra | Posted April 29, 2024 01:30 PM



The recently released Joint Entrance Examination (Main) Session 2 result shows an increase in cut-off by 2.45%, which confirms an increase in competition among aspirants, to get admission into IIT and other premier engineering colleges.

INDIA TODAY AAJ TAK GNTV LALLANTOP BUSINESS TODAY BANGLA MALAYALAM NORTHEAST BT BAZAAR

INDIA TODAY

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News / Technology / Features / ChatGPT 4o shares list of jobs that could be replaced by AI chatbot in India

Edition: IN

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ChatGPT 4o shares list of jobs that could be replaced by AI chatbot in India

We asked the new ChatGPT 4o model about the list of jobs it thinks it can replace in India. Here is what the AI chatbot said.

Listen to story



AI generated image

Nandini Yadav
New Delhi, UPDATED: May 27, 2024 17:53 IST

In Short

- ChatGPT 4o lists jobs in India that could be replaced by the AI chatbot
- Chatbot claims there is 95 per cent probability that a data entry clerk's job will be replaced by AI
- Some tech leaders in India, however, see hope despite AI impact on jobs

Ever since AI chatbots like ChatGPT, Copilot, and Gemini have come into the picture, skepticism around job loss has only grown. These fears aren't exactly unfounded. In the last six months, technology companies have cut thousands of jobs as they intensify their focus on artificial intelligence. Some of the biggest tech companies, including Meta, Google, Apple, and Amazon, have laid off thousands of employees so far. According to [layoff.fyi](#), a [website](#) that tracks

NATIONAL NEWS

IIT-B Collaborates With EnAble India To Offer Scholarships To Persons With Disabilities For Its New PG Programme

By India Education Diary... On Apr 30, 2024

Bangalore: International Institute of Information Technology Bangalore (IIIT-B) is collaborating with EnAble India to provide scholarships for persons with disabilities who get selected in its newly launched Post Graduate Programme in Digital Product Design and Management (PGP-DPDM).

EnAble India, a highly-regarded organization dedicated to empowering persons with disabilities, has established these scholarships to cover the tuition fees of up to five persons with disabilities who are admitted to PGP-DPDM in 2024.

Speaking on the collaboration with IIIT-Bangalore, Dipesh Sutariya, CMD & co-founder of EnAble India, remarked, "Incorporating persons with disabilities in product design ensures that accessibility is part of the infrastructure rather than an afterthought. Congratulations to IIIT-Bangalore for taking a significant step towards inclusivity by launching the PGP-DPDM program. EnAble India is proud to collaborate with IIIT-Bangalore to create

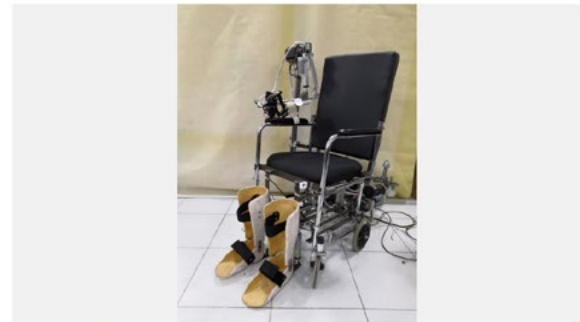
HOME / NEWS / CITIES / BANGALURU

IIITB researchers develop IoT-enabled wheelchair device for rehabilitation of stroke patients

The XoRehab is an exoskeleton for rehabilitation with nine Degree of Freedom (DoF), which essentially means the allowed joint movement in upper and lower limb

Updated - May 16, 2024 09:58 am IST Published - May 15, 2024 10:31 pm IST - Bangalore

JANANI T.R.



The wheelchair developed by IIITB researchers. | Photo Credit: HANCOUT L.MAL

The researchers at the International Institute of Information Technology Bangalore (IIITB) have developed 'XoRehab' an Internet of Things (IoT) enabled wheelchair device to help in the rehabilitation of stroke patients post-surgery.

The device was developed in Center for Internet of Things (CIET) at IIITB. The CIET is established in collaboration with the World Economic Forum (WEF) with support from Karnataka Innovation & Technology Society (KITS) and sponsored by IT-BT Department of Government of Karnataka.

Keywords: AI RESEARCHER

Home > Articles > Campus-Beat-College-Life > Embracing Research-Led Education For Advanced Technical Courses

Embracing research-led education for advanced technical courses

Students must develop well-rounded profiles for both industry placements and academic pursuits, writes Chandrashekar Ramanathan

TNN | Posted October 18, 2023 04:46 PM



Technical education plays a crucial role in preparing students for the demands of the modern workforce. With the rapid pace of technological advancement, it is essential that technical education adapts and evolves to keep up with emerging technologies. In this era of ever-changing technologies, having a flexible curriculum enables students pursuing Engineering courses in information technology to adapt to changes and learn the latest technologies, making them better equipped to succeed in their careers.

To meet the evolving demands of the industry, it is crucial for the curriculum of a course to embrace flexibility and remain receptive to new areas. By incorporating a Choice-based Credit System (CBCS), students are granted the freedom to explore subjects that align with their interests while acquiring knowledge and skills directly applicable to their career objectives. This approach enhances their readiness for their chosen profession and augments their employability prospects.

In this era dominated by AI/ML, IoT, and cloud computing, it is prudent to prioritise both theoretical understanding and research advancements in these domains. Within the realm of AI, specialisation should encompass various facets such as visual recognition, image processing, speech recognition, natural language processing, and the emerging field of few-shot learning, (classification based on only a few samples).

Emphasising experiential learning is the path forward as it effectively prepares students to be industry ready. Moreover, it is essential to establish a strong foundation that fosters immediate impact by placing greater emphasis on experiential learning from the very beginning. Every technological advancement, whether in hardware or software, leaves a lasting impact on society. It is imperative that we motivate students to develop well-rounded profiles that not only qualify them for industry placements but also equip them for further academic pursuits. By encouraging students to cultivate diverse skill sets, we empower them to thrive in professional settings and pursue advanced studies in their chosen fields.

The impact of any emerging technology on society is undeniable, highlighting the importance of

SCHOOL AND COLLEGES CIVIC ISSUES CRIME POLITICS CITIZEN REPORTER VIDEOS PHOTOS WEATHER KARNATAKA ELECTION
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TRENDING: Jyoti Mishra | Mumbai Influencer Death | Suati Mallik assault case | Delhi Airpo

IIT-Bangalore's golden moment: Mother gets her PhD, son his M.Tech

Pearl D'souza / TNN / Updated: Jul 8, 2024, 08:42 IST

Ranjani Niranjan and son Raghava SN received PhD and M.Tech degrees at IIT-B's convocation, collaborating on machine learning. Raghava, now an associate engineer, called it a core memory. The duo's academic journey received applause. Dirr ... [Read More](#)



Ranjani Niranjan and son Raghava SN

BENGALURU: A mother-son duo stole the show at Sunday's International Institute of Information Technology-B convocation when they each received their hard-earned certificates. The proud mom, PhD in hand, and her tech-savvy son, now an M.Tech graduate, had the audience bursting into applause even as IIT-B director acknowledged them as a testimony to the spirit of

lifelong education.

E: Poll
 Do you support the demand for formation of high-level panel over Delhi coaching tragedy case?

Yes

No

Ranjani Niranjan and son Raghava SN said the mention was a surprise. "My son and I worked with each other on our academic journey and we graduated together," she said. Raghava, who will be working as an associate engineer, said

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IIT-B Hosts Trustworthy Digital Identity International Conference 2023

BW Online Bureau | Sep 15, 2023



The International Institute of Information Technology Bangalore (IIIT-B), in collaboration with The Alan Turing Institute, UK hosted the Trustworthy Digital Identity International Conference 2023 on September 14th and 15th.

The event, now in its third year, brought together luminaries from the fields of technology, policy, privacy and inclusion to discuss and exchange insights on the vital topic of digital identity systems.

During the event, an array of speakers took the stage to delve into crucial topics. Sanjay Jain, Chairperson of the Technology Committee at MOSIP, looked into the question of whether biometrics are a necessity in national identity systems. Satya Lokam, Principal Researcher at Microsoft Research Lab, Bangalore, provided insights into zero-knowledge proofs, as applicable to identity systems. Somanath Trinathu, Professor Indian Institute of Technology Patna

IIT-Bangalore's MOSIP Project Recognized as WSIS Champion in E-Government Category at WSIS Prizes 2024

By skillootlook / June 7, 2024 / Comments Off



Bangalore : The International Institute of Information Technology Bangalore (IIIT-Bangalore) announces that MOSIP (Modular Open-Source Identification Platform) has been recognized as a WSIS Champion in the e-government category at the World Summit on the Information Society (WSIS) Prizes 2024.

The award is recognized by the International Telecommunication Union (ITU) for its outstanding contribution towards strengthening the implementation of the World Summit on Information Society (WSIS) Outcomes.

Mr. Nagarajan Santhanam, Chief Dissemination Officer, MOSIP recently received the award from Mr. Doreen Bogdan-Martin, ITU Secretary-General in Geneva.

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IIT-B to start a new campus in the city, launch B.Tech programme

Published - July 07, 2024 10:03 am IST - Bengaluru
 THE HINDU BUREAU

The International Institute of Information Technology Bangalore (IIIT-B) has announced ambitious expansion plans, including starting a new campus and launching a B.Tech programme, aligning with the vision of the National Education Policy (NEP) 2020.

During the 24th convocation ceremony, Prof. Debshrata Das, Director of IIIT-B, revealed the institute's plans for the IIIT-B East campus, slated to open in the next two years on the outskirts of Electronics City Phase II.

"IIIT-B's expansion seeks to broaden its academic offerings, infrastructure, and research capabilities in line with NEP 2020," said Prof. Das. With AICTE's approval, the institute will launch its inaugural B.Tech programme this academic year, specializing in Data Science and Artificial Intelligence, Computer Science and Engineering, and Electronics and Communication Engineering.

Highlighting a significant innovation, Prof. Das introduced the Gocru Navigator, a groundbreaking GPS for learning developed by researchers at IIIT-B's Gocru Labs. This tool personalises learning by mapping each learner's knowledge, interests, and mindsets, thereby enhancing educational outcomes and guiding users toward their goals. The Gocru Navigator leverages AI to update profiles, curate resources, and recommend activities, combining human wisdom with advanced technology.

IIIT-B's new B.Tech programme, designed for students who have completed their twelfth-grade education, promises to equip graduates with critical skills for the future. "Launching a B.Tech program aligns with our mission to provide cutting-edge education in emerging technologies," said Prof. Chandrashekar Ramanathan, Dean (Academics), IIIT-Bangalore.

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IIT Bangalore Receives 'Green University Award 2023'

BW Online Bureau | Sep 22, 2023



International institute of information technology (IIIT) Bangalore has been bestowed with 'Green University Award 2023'. The award was presented during the 7th NYC Green School Conference held in New York on 15 September 2023 and was received by Udaya Hegde, a governing body member and alumni of IIIT Bangalore, representing the entire community.



International
Institute of Information
Technology Bangalore

ज्ञानमुत्तमम् : Chapter 14, Bhagavad Gita, Verse 1

श्रीभगवानुवाच :-

परं भूयः प्रवक्ष्यामि ज्ञानानां ज्ञानमुत्तमम् |
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