

ANNUAL REPORT

July 2012 - July 2013 (Draft)



International Institute of Information Technology Bangalore 26/C, Electronics City, Hosur Road, Bangalore - 560100 The Institute is involved in diverse range of activities that are consistent with its mission, and contribute to the professional growth of its students and faculty, as well as civil society.

Some of these are:

- Academic programs leading to masters and doctoral degrees in Information Technology.
- **Research** by faculty and students leading to several publications in international and national journals and conferences.
- Collaboration with IT industry on R&D projects of common interest. Industry participation happens on a constant basis by way of sponsorship of students, focused research labs, live projects and Chair Professorships.
- **Incubation of companies** to foster the spirit of entrepreneurship in students.
- Social policy issues arising in the development and use of information technology are addressed through research that covers various economic activities, the organization of IT industry clusters, and information access for the socially underprivileged.
- Hosting premier **conferences** and technical events on a regular basis.
- The Institute hosts many **visitors** from all over the world throughout the year; these include prominent, renowned academics and industry leaders, visiting scholars and exchange students as well as political leaders from various countries.
- IIITB is closely associated with the Government of Karnataka's Board for IT Education Standards (BITES) that establishes academic benchmarks for undergraduate IT education in the state.

ज्ञानमत्तमम्

Knowledge is Supreme, conveys the spirit of IT today, as we move from a data and information dominated world to a knowledge intensive world.



MISSIO N

To build on the track record set by India in general and Bangalore in particular, to enable India to playa key role in the global IT scenario through a world-class Institute with a focus on Education and Research, Entrepreneurship and Innovation.

















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Governing Body

Chairman

N. R. Narayana Murthy (Until June 7, 2012) Chairman and Chief Mentor Infosys S. Gopalakrishnan (June 7, 2012 onwards) Co-Founder Executive Co-Chairman Infosys

Members

Prof. Pankaj Chandra Director, Indian Institute of Management Bangalore

Neelam Dhawan

Managing Director, HP India Pvt Ltd

Gautam Hegde

Managing Director, Backend Bangalore Pvt.Ltd

Dr. Praveen Vishakantaiah President - Intel India, Intel Technology India Pvt. Ltd.

Som Mittal President,

NASSCOM

Manish Khera

CEO, Financial Information Network & Operations Ltd. (FINO) **Prof. Jitendra Malik** Department of EE/CS, University of California at Berkeley, U.S.A

> **B.V. Naidu** Chairman Sagitaur Ventures Pvt. Ltd,

R. Rajalakshmi Former Director STPI, Bangalore

Prof. S. Sadagopan Director, IIITB

K. Subrahmaniam

Ex-President & Managing Director, CSC (India)

M. N. Vidyashankar, IAS,

Additional Chief Secretary to Government of Karnataka, Departments of Industry & Commerce

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From the Director's Desk

This has been a momentous year- a **major initiative** undertaken by the Institute is the launch of the **5-year Integrated MTech Program** (Dual Degree – BTech & MTech) christened **iMTech** starting this year.

Our students and alumni continue to win laurels on several fronts.

- Our PhD student Abhilasha is the winner of the "Discover Stars" program of CII (administered by IIM, Ahmedabad)
- Shreya and Srinidhi won the "Best paper" award in the OR Society of India Conference in Kolkata.

The highlight of this year includes the handing over the charge of the Chairperson of the Governing Body by Mr. N R Narayana Murthy to S Gopalakrishnan on June 7, 2012. We owe a lot to Mr. Narayana Murthy for his outstanding leadership over the past 12 years and we welcome Mr. Gopalakrishnan to take IIIT-B to further heights.

Our students presented their papers in CROWNCOM 2012 in Stockholm, Sweden, ICSIP in Orlando, USA, IEEE Int'l Conference on Industrial Technology, Athens, Greece, SENSORCOM, Rome, Italy and IEEE Systems Conference in Vancouver, Canada. Skanda Kumar is a co-author of a patent on image compositing algorithms filed during his internship at Nokia.

Our faculty members have been active in teaching, research and outreach. They have been invited to present their work in many prestigious conferences. Some of the faculty initiated projects attracted funding from **National Science Foundation**, USA; Government of India; Government of Karnataka and European Union to name a few.

The faculty members were also invited to the following events –

- Microsoft Faculty Summit in Seattle
- Intel "Embedded Systems Research & Education Summit", in Arizona, USA
- Cambridge University Enterprise

IIITB faculty members presented papers in prestigious International Conferences including **IVAP**, **SENSORCOMM**, **ICSIP** and **CROWNCOMM**.

Prof. Jaya Nair is the winner of **CUDA Fellowship from NVIDIA** for the year 2011-12.

Other key activities in the year include

IIIT-B hosted three International conferences in this year

- HCI in October 2011
- IMSAA in December 2011
- COMAD in December 2011

The Institute also hosted **Ramanujan Math Workshop** in June 2012 and **Indo-Dutch Research Group meet** in May 2012 along with the Dutch Science Foundation. We also hosted key industry events **HP Network University** in January 2012, **Android Developer Camp** in March 2012 and **EduTech** in April 2012 as well as the **Telecom Awareness Workshop** in the campus in March 2012.

IIIT-B faculty did a week-long "**exciTe children**" program for the high school students in Bangalore in April 2012.

Extension education byway of training Engineering College Teachers under "Train the Trainers" program and Engineering students thru 12 months-long PGDSD program continued in the year under a Government of India project. In all 600 students and 300 teachers have been trained.

IIIT-B continues to **attract outstanding faculty** members and scholars from around the world

- Prof P G Poonacha (PhD, IIT Kanpur)
- Prof Sumit Mediratta (PhD, University of Southern California, USA)
- Prof JayPrakash Lalchandani (PhD, IIT Kharagpur) have joined IIIT-B as full time faculty in the year.

Prof N L Sarda from IIT Bombay spent a semester at IIIT-B on Sabbatical from IIT Bombay. Prof Ashok Srinivasan, Florida State University, USA was the "Fulbright Scholar" in the year 2011-12.

IIIT-B hosted nine summer Interns (chosen from 584 applicants) from IIT Guwahati, BITS, Pilani, NIT- Surathkal, Manipal Institute and Amrita Institute.

Our partnerships with other leading global universities continues- The student-faculty exchange programs with TU Kaiserslautern & Hof University in Germany, and Malmo University in Sweden continue to be active (with 10 students and 4 faculty on exchange in this year). Two faculty members, Prof D Das and Murali Koteswar spent 4 weeks in Malmo, Sweden and Prof Simon Niedenthal visited IIIT-B for 4 weeks as part of the Olof Palme Fellowship program. Prof Yuko Aoyama of Clark University, USA visited IIIT-B for 4 weeks in June as part of an NSF funded project (jointly investigated by Prof Balaji Parthasarathy of IIITB)

On the infrastructure front, IIIT-B is grateful to the Government of Karnataka for granting a piece of land (approximately 2 acres) just behind our existing campus and an initial grant of Rs 10 corers towards the construction of a Hostel building.

IIIT-B continues to place emphasis on entrepreneurship; we are currently incubating 12 companies in the Innovation Center.

We have a long way to go but our baby steps in the past twelve years are reassuring. "Institution building is an act of faith". But for the trust-based relationship between the Governing Body and the Executive, IIIT-B would not be what it is today. We look forward to such continued support from the management and from all sections, namely, faculty, students, staff, alumni, funding agencies, government and industry.

With this, let me thank every one who has contributed to our short, yet successful journey towards excellence.

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About us

International Institute of Information Technology, Bangalore, (IIITB) is promoted by the Karnataka government and the IT industry. IIIT-Bangalore attracts **high quality students** from all over India and abroad to its acclaimed MTech, M. S. by Research and Ph.D. programs. Along with **a very distinguished faculty**, they pursue research in a **unique campus** located in Electronic City, the heart of the IT Industry in Bangalore.

The Institute focuses on the generation of new ideas, building a deep understanding of technology, and teaches with skill and passion. The institute aims at inculcating skill, knowledge, team work, perseverance and self-confidence in its students.

The institute has a short but **distinguished history of 14 years** producing quality post-graduates every year. The **1500+ strong alumni** occupy key positions in very of corporations, delivering tremendous value to their organizations. The courses are designed with a eye on the requirements of the industry, and are kept flexible to accommodate any changes in the industry. Students from different technical and cultural backgrounds come together in the institute, realizing the potential of unity and team work. Immense support from the faculty members enables the students to stay on the path of scientific enquiry.

In addition to **high quality publications**, the students and faculty have produced several **patents** and novel projects.

State of the art technology **infrastructure** is available to all the students in the various research laboratories in the institute.

The institute has an excellent **library**, through which the students have access to the latest developments in their fields.

The institute attracts a lot of **visitors**, and the list of distinguished visitors in its short history is a very long one.

The institute helps the students keep in touch with the pace of innovation and development in the industry by holding **conferences andworkshops** at regular intervals.

The **entrepreneurship cell** of the institute is very active, and has incubated and supported several companies in the campus. These companies have since moved on to other successes, but have proved to be an excellent training ground for the students.

The local **SPICMACAY** chapter also conducts a yearly musical and dance festival, in which the students and various famed artists perform, delivering an enthralling evening of musicand culture.

The students are also active in the community work around the college. A yearly **blood donation camp** is a regular feature at IIITB where a large number of students donate blood.



IIIT-B offers students a unique environment that provides them with state-of-the-art knowledge in multiple disciplines beyond traditional computer science, covering the wider spectrum of Information Technology, and equips students to provide thought leadership and gain the satisfaction of fulfilling their creative and intellectual potential by becoming full peers to the brightest minds in the world, rather than just providing the low-end labor to implement others' grand visions.

The IT industry in India as a whole is seeing an increasing shift from service oriented jobs to high-end R & D and product design. IIITB students are well equipped to meet this changing demand. In fact most of our alumni work in R & D wings of major corporations, product development groups and high-tech start-ups; many have started on their own and pursuing research in premier universities around the world.

Considering the pervasive nature of IT in all walks of life, IIITB encourages and admits students from a wide variety of

academic disciplines into the programmes. About half of our students in recent years have been bright young men and women who already have some work experience, but have decided to take a break from their careers to pursue our M. Tech., M. S. by Research and Ph. D. Programme in order to shift their careers on to more stimulating and rewarding paths.

Why **IIITB**

Strong interaction with the industry is built into our academic programmes, because IIITB believes in equipping students to become productive right from the day they enter the industry.

For those aspiring for academic goals, IIITB provides a research environment.

Students have the opportunity to get financial aid in the form of scholarships and internships to help meet tuition and other expenses, so a bright student is limited only by his or her own vision and ambition.



M. Tech. Programme

This four semester broad-based IT program ensures

that the students have a strong technical grounding. The students are allowed to choose their **streams**, their area of study and gain more knowledge in their chosen area. To add to the existing knowledge base and help students pursue their research interests, the institute offers the students an option to work on a **research thesis** or opt for an industry internship during the **fourth semester**.

All the core courses are mandatory. Every student must choose a **specialization** area at end of the first semester. A student must take a minimum of **six elective courses**. A minimum of three elective courses must belong to the student's **area of specialization**. Each such elective course belonging to a given area is called '**area elective**'. The other three elective courses that a student must take are considered '**open electives**'. Open electives may belong to any area including the student's chosen area. Industry internship / Research Thesis is mandatory.

There is a 4-week mandatory **preparatory program** brings all students to a level that core courses can take as common basis.

The students from various backgrounds learn the concepts of IT, going beyond traditional Computer Science. Their projects and assignments aim at developing team spirit. The continued input available from the industry ensures that the focus is on the latest developments while having a firm foothold on the fundamentals.

The course is designed keeping an eye on the ongoing developments in the IT industry. The course content and structure are compliant with industry requirements. It gives

COMPUTE

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NETWORKING

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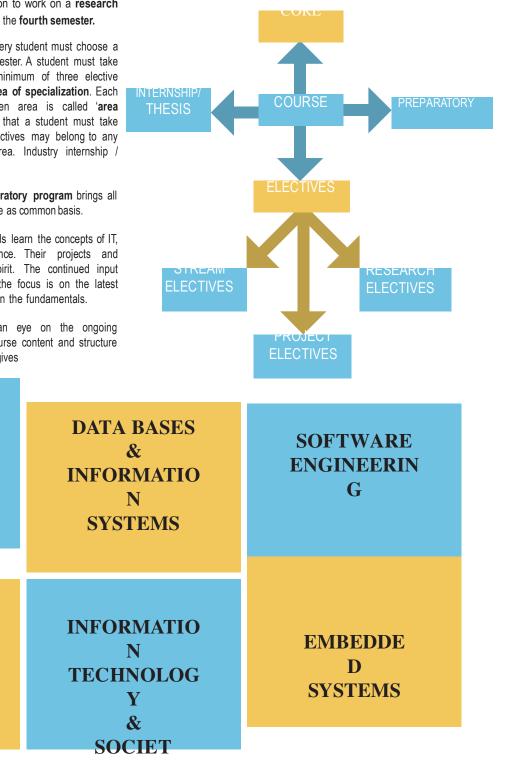
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the student a solid foundation in the philosophy underlying information technology.

Apart from imparting technical knowledge, the program teaches **managerial and other skills** that are essential for a successful career in today's competitive IT industry.

The M. Tech. Program is residential and full-time and all the students enrolled in the program are required to stay on campus.



M. Tech Programme Structure

OVERVIEW OF M. TECH. PROGRAMME

One Preparatory semester (3 weeks)

- Short-term introductory session on Programing and Mathematics
- Includes Basic Electronics as an optional topic

Four regular semesters (15 weeks each)

· Core courses, electives, etc.

One Summer semester (8 weeks)

· Soft skills courses on marketing, finance and technical communication

Areas of Specialization

Computer Science, Database and Information Systems, Software Engineering. Networking and Communication Systems, Embedded Systems Design. Information Technology and Society.

23 month program

At entry: 3 weeks "prep-semester preparatory program"

- Mathematics (Discrete Maths, Probability Theory and Statistics)
- Programming in C
- Basic Electronics (optional)

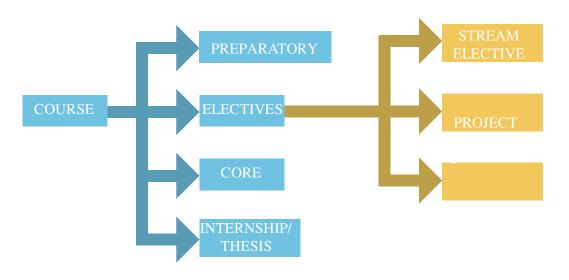
Compulsory core (9 courses)

- Semester 1: 4 courses
- Summer session: 3 courses
- Semester 2: 2 courses

Elective courses

- Area electives (3 courses)
- Open electives (3 courses)

Industrial Internship / Research Thesis (Semester 4: 26 weeks)



Faculty

IIITB houses some of the best academicians who are deeply committed to their teaching and have made significant contributions to their field of research. Many of the faculty members have taught previously, at some of the best institutes in the world, and maintain the same standards of education at IIITB Fulltime

Fulltime

- Prof. Amit Prakash, FPM
- Prof. Balaji Parthasarathy, Ph.D.
- Prof. Balakrishnan Ashok, Ph.D.
- Dr Bidisha Chaudhuri, Ph.D.
- Prof. Chandrasekar Ramanathan, Ph.D.
- Prof. Debabrata Das Ph.D.
- Prof. G Srinivasaraghavan, Ph.D.
- Prof. G. N. Srinivasa Prasanna, Ph.D.
- Prof. Jaya Sreevalsan Nair, Ph.D.
- Prof. Jyotsna Bapat Ph.D.
- Prof. K. V. Dinesha, Ph.D.
- Prof. L T JayPrakash, Ph.D.
- Prof. Madhav Rao, Ph.D.
- Prof. Manisha Kulkarni, Ph.D.
- Prof. Meenakshi D'Souza, Ph.D.
- Prof. Muralidhara V. N, Ph.D.
- Prof. N J Rao, Ph.D.
- Prof. Neelam Sinha, Ph.D.
- Prof. Niveditha Menon, Ph.D.
- Prof. Poonacha P G, Ph.D.
- Prof S Rajagopalan, Ph.D.
- Prof. S Sadagopan, Ph.D.
- Prof. Shrisha Rao, Ph.D.
- Prof. Sridhar Rajagopalan, Ph. D.
- Prof. Srinath R Naidu, Ph.D.
- Prof. Srinath Srinivasa, Ph.D.
- Prof. Sujit Kumar Chakrabarti, Ph.D.
- Prof. Subir K Roy, Ph.D.

- Prof. Subajit Sen, Ph.D.
- Prof. Vinod Vyasulu, Ph.D.
 Adjunct
- Dr. Tridib Roy Chowdhury, Ph D
- Dr. Subhajit, Ph D
- Dr. H. Gokul , Ph D
- Prof. Roland E. Haas, Ph D
- Prof. Muralidhar Koteshwar
- Prof. S. Nagarajan
- Prof. Joy Prabhakaran
- Prof. Eswara Rao Potladhurthi
- Prof. S Ramesh, Ph D
- Prof. Hema Krishnamurthy
- Prof. Revathi Siva Kumar
- Prof. Abbas K Sutarwala
- Dr. Raja Subramanian
- Prof. Venkatesh K
- Prof. Shakeel Ali
- Prof. A Srinivasan

Visiting

- Dr. Eswaran Subramanian, Ph.D
- Dr. Srini Ramaswamy Ph.D

Full Time Faculty



Prof. Amit Prakash, FPM. IIM Bangalore

Amit's research and consulting interests are in the areas of Infor- mation Systems and Public Pol- icy, particularly where they inter-

sect with Development Sectors such as Public Health & Nutrition, Education & Skill Develop- ment and Livelihoods.

Amit has a graduate degree in Civil Engineering from the Indian Institute of Technology, Roorkee and a doctoral degree in Information Systems from the Indian Institute of Management Bangalore. His thesis was in the area of ICT and Development and explored the linkages of development conceptions and social contexts in the use of ICT enabled pub- lic service delivery interventions.

Amit has worked extensively on consulting assign- ments in India in the public policy and e- Governance space over his close to 15 years of association with organizations like Deloitte Touche Tohmatsu, PricewaterhouseCoopers (PwC) and Centre for Development of Advanced Computing (C-DAC).



Prof. Balaji Parthasarathy, Ph.D. University of California, Berkeley

Professor Parthasarathy's research and teaching interests broadly focuses on the relationship be- tween technological innovation.

economic globalization, and social change. Within this broad focus, his work follows two threads. One thread examines the impacts of public policy and firm strategies on the organization of production in the ICT (information and communications technology) industry. Another thread deals with "ICTs for Development," or ICTD. Here his inter- ests lie in understanding how ICTs are being de- ployed in various domains of activity to transform social relationships, especially in economically underprivileged contexts.



Prof. Balakrishnan Ashok, Ph.D. University of Massachusetts Amherst

Dr. B. Ashok did his Ph.D. from the University of Massachusetts, Amherst, specializing in theoretcal polymer physics, followed by postdoctoral work at the Lorentz Institute for Theoretical Physics, Lei- den, The Netherlands, and at the Materials Re- search Centre, I.I.Sc., Bangalore. Prior to joining IIIT-B in July, 2012, he was an Assistant Professor at the central University of Hyderabad since April,2007. His research interests are principally in theo- retical soft condensed matter physics, complex sys- tems and dynamical systems theory.



Prof. Chandrasekar Ramanathan, Ph.D. Mississippi State University

Chandrashekar Ramana- than is a faculty member at IIIT-B since 2007. His primary focus area is software engineering, applica-

tion development and databases. Professor Chandrashekar received his Ph.D degree from Mis- sissippi State University. His thesis was in the area of object-oriented databases. He has extensive ap- plication software development experience span- ning over 10 years in large multinational organiza- tions. His current focus is in the area of semistructured databases and software engineering. Ap- plication architectures, enterprise content manage- ment and knowledge management are his other ar- eas of interest.



Prof. Debabrata Das Ph.D. Indian Institute of Technology Kharagpur

Dr. Debabrata Das received his Ph.D. degree from the Indian Insti- tute of Technology Kharagpur (IIT

Kharagpur). At present he is serving as Professor and Hewlett Packard Chair at IIIT-Bangalore (IIIT- B). Before joining IIIT-B, he had served at G S Sanyal School of Telecommunication at IIT Kharagpur and later at Kirana Networks in New Jersey, USA. At present he is Principal Investigator (PI) of Department of Information Technology, Government of India Sponsored project on Green Broadband Wireless Network, and Intel sponsered project on Cross Layer Optimization of Broadband Wireless Network and a Nokia sponsored project in the area of Mobile Computing. His areas of teach- ing interest is, Wireless Access Network, Mobile Computing with IMS and Internetworking. His main areas of research interest are Wireless Ac- cess Network's MAC, QoS, Power saving and IP Multimedia Subsystems. Dr. Das has more than 65 peer reviewed papers in different journals and International conferences. He and his wireless network team had contributed three ideas to IEEE 802.16m Broadband Wireless Standard. He is also board member of IT-Service Management Forum India (itSMF), OCAC of Orissa Govt.; and a member of e- Governance committee under Govt. of Karnataka. He was General Chair of IEEE International Con- ference IMSAA-09. He has been TPC member of number of international conferences and reviewers of IEEE Journals.



Prof. G Srinivasaraghavan, Ph.D. Indian Institute of Technology, Kan- pur

G. Srinivasaraghavan, PhD is a Partner at Performance Engineering As- sociates. He has a PhD in Computer Science from the Indian Institute of

Technology Kanpur and has over 18 years of indus- try experience. At Infosys Technologies, India's pre- mier IT firm, he was responsible for the delivery of large, performance-critical IT systems for Fortune 500 clients in the telecom, BFSI and logistics spaces. He has over a dozen published papers in sev- eral reputed international fora, including journal of Algorithms, International Journal on Computational Geometry and Applications and Foundations of Software Technolgy and Theoretical Computer Sci- ence. In his previous position he was Chief Technol- ogy Officer at Aztecsoft Ltd(now a part of Mindtree Ltd), where he brought about a radical, product- quality-focussed shift in the firm's approach to qual- ity assessment.



Prof. G. N. Srinivasa Prasanna, Ph.D. MIT

Professor Prasanna did his B.Tech at IIT Kanpur, and MS and Ph.D at MIT, USA. He has worked at IIIT- B since 2004, and previously at Lu-

cent Microelectronics and Lucent Bell Laboratories, for about 11 years. At IIIT-B, he is interested broadly in the areas of algorithms and robotics. Major focus areas include robust optimization under uncertainty, with applica- tions to supply chains, real time search, banking, gaming and allied areas. This work couples algo-

rithms with information theory. Several publications from this work (since 2009) are in INFORMS, Eu- roOR, IAEng, and ORSI conferences. In robotics, a major focus area has been novel robot skeletons, which are generalized mechanisms, incorporating magnetics distributed throughout. Publications are in NaComm2007 and NaComm2007. At Lucent Prasanna worked in a variety of fields, including VLSI, switching, optical networking, etc. He was responsible for the signal processing system design of a major access product for Lucent's 5ESS switch, accounting for 30 million lines worldwide.

Prasanna has published about 50 papers, and holds about 20 patents (available on WIPO http:// www.wipo.org). He has been on several technical program committees and has served as a referee for several journals. He is interested in robust optimiza- tion, communication systems (optical, wireless, powerline), electromechanical systems, animation and mathematics.



Prof. Jaya Sreevalsan Nair, Ph.D. University of California, Davis

Professor (Sreevalsan) Nair ob-tained her Ph.D. in Computer Sci- ence from University of California, Davis; after a B.Tech in

Aerospace Engineering from IITM and a M.S. in Computa- tional Engineering from Mississippi State Univer- sity. Prior to joining IIIT-B, she worked as a scien- tific programmer at Enthought Inc. Austin and as a research associate at Texas Advanced Computing Center, University of Texas at Austin. Her areas of interest are scientific computing, scientific visualiza- tion, computer graphics, and computational geome- try.



Prof. Jyotsna Bapat Ph.D. Penn State University

Professor Bapat received her Ph.D.

from Penn State University. Her thesis was in the area of semi-blind equalization applied to communica-

tion systems. After graduation, she worked on de- sign and implementation of voice-band (V.34) and DSL (G.lite) modems at Ariel Corp and Lucent Technologies respectively. Her area of interest is Digital Signal Processing as applied to communica- tion systems. In particular, she is interested in semi- blind identification as applied to OFDM systems.



Prof. K. V. Dinesha, Ph.D. Indian Institute of Technology Bombay

For the past 20 years, Professor Dinesha has been involved in teaching, research and consul-

tancy in Information Technology. He has been de- veloping scientific and commercial software. His areas of interest include Software Engineering, Quality Systems (ISO and SEI CMM Models), Cryptography, Object Technology and Data Struc- tures.



Prof. L T JayPrakash, Ph.D. Indian Institute of Technology, Kharagpur

Professor JayPrakash completed his PhD in Computer Science spe- cializing in Software Engineering

from the Indian Institute of Technology Kharagpur in 2010. His current research interests include pro- gram and model analysis, testing, requirements engineering among others.



Prof. Madhav Rao, Ph.D. University of Alabama Madhav Rao completed his Masters in Microelectronics from University of Arkansas in 2007 and Ph.D in Electrical Engineer-

ing from the University of Alabama in 2012. His major research contribution involves developing a solder based self assembly technology for 3D inte- gration of VLSI circuits. He has published multi- ple journal articles and has given multiple talks on the same in international conferences. His other research interests include fabricating CNT (Carbon nanotubes) in through silicon vias, developing nanomagnetic devices to emulate logic gates, and developing human readable audio for educational purposes.



Prof. Manisha Kulkarni, Ph.D. The Institute of Mathematical Sci- ences, Chennai

Professor Manisha Kulkarni did her masters from Shivaji Univer-sity, Kolhapur, Maharashtra and

her PhD in the field of Number Theory from The Institute of Mathematical Sciences, Chennai. She worked on Galois Module Structure problems in Algebraic Number Theory for her thesis. After that she has been working in the field of Diophantine equations. She is also Principal Investigator of De- partment of Science and Technology sponsored pro- ject on the distribution of Galois groups and class groups. Her areas of interest include Diophantine equations, elliptic Curves, Galois groups and Class groups.



Prof. Meenakshi D'Souza, Ph.D. The Institute of Mathematical Sciences, Chennai

Professor Meenakshi D' Souza did her Master's in Mathematics from

University of Madras, Chennai and her Ph. D. Theoretical Computer Science from The Institute of in Chennai. She joined Sciences. the research Mathematical department of Honeywell Technology Solutions, Bangalore soon after com- pleting her Ph. D. and worked there in the areas of Formal Verification of Software Design, Model Based Development and Physical Access Control. Her research interests are in Formal Methods, Model Based Development, Automata Theory and Enterprise Security. She is also interested in Research and Technology Strategy and Intellectual Property Rights Management.



Prof. Muralidhara V. N, Ph.D. Indian Institute of Technology, Delhi

Prof Muralidhara has done PhD in Computer Science and Engineering at Indian Institute of Technology Delhi. His thesis was in the area of

Algorithms. He has done M.Tech. in Computer Ap- plication at IIT Delhi and M.Sc. in Mathematics at University of Hyderabad. Before Joining IIIT Ban- galore, he has worked as Research Associate at SERC, Indian Institute of Science Bangalore for few months. He is interested in the theory of algorithms and complexity, and it's applications. More specifi- cally, his broad area of research interests include combinatorial optimization, approximation algo- rithms, randomized algorithms, on-line algorithms, cryptography, algebra and coding theory.Prof Mu- ralidhara V. N. joined IIIT-B in August 2009. His primary focus area is the theory of algorithms and complexity, and it's applications.



Prof. N J Rao, Ph.D., Indian Institute of Technology, Kanpur

BE (Telecommunication Engineering) College of Engineering (Kakinada) Andhra University,

1959-64

MTech (Industrial Electronics) Indian Institute of

Technology, Bombay, 1964-66.

Ph.D. (Control Systems), Indian Institute of Tech- nology, Kanpur, 1972

Awards -Jai Jayant Award for Excellence in Teach- ing Positions Held

Chairman, Department of Management Studies, In- dian Institute of Science, Bangalore, Sept., 1998 – to

2006

Professor, Department of Management Studies , In- dian Institute of Science, Bangalore, Sept., 1998 – to 2006

Chairman, Centre for Electronics Design and Tech- nology, Indian Institute of Science, Bangalore. July,

1981 – 1996

Professor, Centre for Electronics Design and Tech- nology, IISc, Bangalore, 1990 to 2006



Prof. Neelam Sinha, Ph.D. Indian Institute of Science

Neelam received her PhD from

IISc, Bangalore. Her thesis was on strategies for rapid MR imaging. Her previous stints include MILE

Lab, IISc and MR Imaging group at GE Healthcare, Bangalore. Her research interests are in medical im- aging and processing.



Prof. Niveditha Menon, Ph.D. Penn State University

Niveditha Menon received her doctorate from Penn State Uni- versity in Sociology and Demog- raphy with a minor in Women's

Studies. Her broad areas of interest are gender, pov- erty, violence, community development, and re- search methodology. In particular, she has worked in the areas of local participatory development, rural poverty, and urban homelessness.



Prof. Poonacha P G, Ph.D. Indian Institute of Technology, Kanpur

Poonacha received B.Tech degree in Electronics and Communication

Engineering from KREC (now known as NITK) Surathkal in 1978, M.Tech and Ph.

D. degrees in Electrical Engineering from IIT Kan- pur in 1981 and

1987 respectively. He is a Senior member of IEEE. He has been working in Signal and Image process- ing and digital communication areas for the past 24+ years which includes 10 years at IITB and 14 years in industry.

He was a faculty member in the EE Department at IIT Bombay between 1986 and 1996. During that period he taught PG level courses in the area of Digital communications, Adaptive signal processing and Neural Networks and worked as Principal as well as co-investigator on MHRD projects by gov- ernment of India. He was with Sasken from 1996 to 2002. At Sasken he became Vice President of its R&D division in 2001, responsible for R&D initia- tives and patents in the area of 4G wireless. MPEG7 and Software Defined Radio (SDR). He was also a member of the management council at Sasken in 2001. Prior to that, he was the head of 3G wireless program at Sasken responsible for development of 3G protocol stack and baseband. Before joining Epi- gon he worked as a Senior Technologist at Texas Instruments, Bangalore. He worked as Chief Tech- nology Advisor and Director at Epigon Media Tech- nologies from 2003 to 2011.At Epigon he worked on development of H.264 codec, Worldspace hybrid radio receiver, DAB receiver and OFDM based mo- dem development.

Research Interests: Computer Vision Problems, Wireless Communications and Wireless Sensor Net- works, Software Defined Radio, Neural Networks and their applications.



Prof S Rajagopalan, Ph.D. Indian Institute of Technology, Kan- pur

Dr. S. Rajagopalan received his B.Tech degree from IIT Delhi , PGDM from IIM Bangalore and Ph.D from IIT Kanpur.

He was the Chief Executive Officer of the Karnataka State Council for Science and Technology from 1982 to 1993 and was involved managing innova- tions that addressed the problems of Karnataka.. In 1993 he along with a few colleagues founded Technology Informatics Design Endeavour (TIDE) a not for profit development society which focused on developing and disseminating technologies that are economically attractive, environmentally sustainable and socially acceptable in rural areas of Karnataka. He was its Chairman till 2007. For his work in TIDE ,he was awarded the Ashoka Fellow (1994), Fellow of the Salzburg Seminar (1999), one of the four finalists of Social Entrepreneur of India award (2006) and one of the 50 pioneers of India chosen by India Today Magazine (2008). TIDE was awarded the International Green Oscar, the Ashden Award in 2008.

Dr Rajagopalan has been working in the area of Geographical Information Systems since 1989 and founded a Company Spatial Data Private Limited in 1999. This Company was pioneer in developing user-friendly digital maps of Indian Cities under the Brand Name Mapcue. Dr. Rajagopalan areas of in- terest includes innovation dissemination, economics of innovations, Geographical Information systems, and Economics of Information Technologies. He also heads the IIITB Innovation Centre, which aims at incubating and promoting innovations in the area of Information and Communication Technologies.



Prof. S Sadagopan, Ph.D. Purdue University

Professor Sadagopan, Director of IIIT-Bangalore, is a product of Ma- dras University, India and Purdue University, USA. He taught for 25+

years at IIT Kanpur, IIM Bangalore, IIT Madras and IIIT-Bangalore in addition to short teaching assign- ments at RUTGERS, USA and AIT, Bangkok. He has wide research interests that include Operations Research, Multi-criteria optimization Decision The- ory, Simulation, Enterprise Computing, Programming Languages, Databases, multimedia and e-Governance. He has authored seven books, sev- eral book chapters and papers. He is also a Fellow of IEE (UK) and Computer Society of India. He is a Senior Member of IEEE, ACM and AIS.

Prof. Sadagopan consults widely across different industry segments (Auto, Manufacturing, Banking, IT and Social Sector) and lectures extensively at cor- porations, industry events and Universities in North America, South America, Europe, Middle East, Asia, Australia and New Zealand on all aspects of IT.

He serves on the boards of Bharat Electronics, Ney- veli Lignite Corporation and Indian Renewable En- ergy Agency and IIIT-Bhubaneshwar, IIIT-Delhi and IBAB; earlier he was also on the Board of Bank of India, NMDC, VisualSoft, Megasoft, Informatics and Shawman Software. Prof. Sadagopan is a Mem- ber of Karnataka Knowledge Commission, Chief Minister's Vision Group on IT, NASSCOM Re- gional Council and ISA Executive Council. He is the Chair of IEEE Computer Society, Bangalore Chapter and a Member of ACM India Council. Currently (till 2011) he is also a Member of WWW Conference Committee (W3CC).

He writes extensively for the popular press; he is a featured Columnist for Times of India.



Prof. Shrisha Rao, Ph.D. University of Iowa

Professor Rao obtained his Ph.D in

computer science from the University of Iowa, and also has an M.S. in logic and computation from Carnegie Mel- Ion University. His research interests

originate in distributed computing, specifically algo- rithms and formal methods for concurrent and dis- tributed systems, and include solar energy and mi- crogrids, cloud computing, energy-aware computing ("green IT"), distributed algorithms in sensor net- works and other domains, algebraic theories of fault tolerance and system safety, safety-critical systems, and demand-side resource management. He is also a regular reviewer for the ACM Computing Reviews journal (computingreviews.com), which reviews a sample of the latest publications related to the com- puting sciences.



Prof. Srinath R Naidu, Ph.D. Eindhoven University of Technology

Srinath R. Naidu obtained his B.Tech degree from the Institute of Technology, BHU in 1996.

After completing his master's degree from the Indian Institute of Science, Bangalore in 1998 he went on to finish his Ph.D in the area of statistical timing analysis for digital integrated circuits from Eindho- ven University of Technology in 2004. After com- pleting his Ph.D he worked for Magma Design Automation Inc in the area of statistical timing analysis. His last work assignment before joining IIIT was with Cadence Design Systems in the area of low power synthesis. His research interests are mainly in the area of electronic design automation including statistical timing analysis and optimisation for digital circuits, power analysis and optimization and formal verification. He is also interested in com- binatorial optimization, and design and analysis of algorithms.



Prof. Srinath Srinivasa, Ph.D. Berlin Brandenburg Graduate School

Professor Srinath holds a Ph.D. in infor- mation systems from the Berlin- Brandenburg Graduate School for Distributed Information Systems, (GkVI) Germany, and an MS from IIT-Madras.

He works in the broad areas of web information re- trieval, multi-agent systems, network analysis and text mining. He is a member of various technical and organizational committees for international confer- ences. He is also a member of the IEEE Executive Committee for Bangalore, a member of ACM and a life member of the Computer Society of India (CSI). He has served and continues to serve as a technical reviewer for various journals like the VLDB journal, and IEEE TKDE. He is also the recipient of various national and international grants for his research activities.



Prof. Uttam Kumar, Ph.D. Indian Institute of Science

Dr. Uttam Kumar has an Engineering Degree in Computer Science from VTU, Belgaum, India; Diploma in Advanced Computing from CDAC,

Pune, India; MS in Geoinformation Science from University of Twente, The Netherlands; and a Ph.D. from the Indian Institute of Science (IISc), Banga- lore, India. Before joining IIITB, he was a Postdoc- toral Fellow at IISc, Bangalore.

His areas of research are Spatial Data Mining, Ma- chine Learning, Management Information System, Digital Image Processing, Geographic Information Science, Statistical Methods, Spatio-temporal Data Analysis, Remote Sensing, Land use/land cover change analysis, Urbanisation and its implications on public policy.



Prof. Vinod Vyasulu, Ph.D. University of Florida

Prof. Vinod Vyasulu has joined as

an Advisor in the Centre for Infor- mation Technology and Public Policy (CITAPP) in the institute

w.e.f. 1st January, 2013. He has Ph Ds (Latin American Studies and Economics) from University of Florida. His areas of interest include federal sys- tem, federal finances, especially the working of local governments, and the process of urbanisation. He has taught at the Universidad de las Americas in Mexico, Indian Institute of Management, Bangalore, and XLRI Jamshedpur. His previous Assignments also include Reserve Bank Chair Professorship at ISEC, Director, Institute of Public Enterprise, Hy- derabad, Director, Centre for Budget and Policy Studies, Bangalore and Economic Adviser to the National Small Industries Corporation. He was co- convener of the 4 volume set of Essays on Bangalore (1984). He consulted with various agencies on ongoing economic issues and development projects. He has worked with ILO, World Bank, UNDP, various bilateral agencies, and public and private institutions in India. In 1998, he set up the Centre for Budget and Policy



Prof. Subajit Sen Ph.D. (University of Waterloo, Canada)

Prof. Subhajit Sen passed with B.Tech in Electronics Engineering from Institute of Technology, Banaras Hindu University, Varanasi, India in 1984, M.S. from Louisiana State University, U.S.A. in 1991 and with Ph.D in

Electrical & Computer Engineering from University of Waterloo, Ontario, Canada in 1997. His Ph.D thesis was in the area of design of Analog-Digital converters for wireless communications. Between 1984 to 1988 he worked at Semiconductor Complex Ltd., Chandigarh, India on analog CMOS circuit design. Subsequent to his Ph.D studies and till 2009 he has worked in the Indian semiconductor industry (Arcus Technologies, Cypress Semiconductors, Cirrus Logic, Sasken Communications, SiRF Technologies) both as a senior level individual contributor as well as project manager for the design of analog modules and sub-systems for fiber-optic communication, audio, video, defense-electronics and GPS related products. Some of these projects have been implemented as successful fabricated chips for commercial products. He has two U.S. patents in the areas of trans-impedance amplifier(TIA) and PLL chargepump. He worked at Dhirubhai Ambani Institute of Information & Communication Technology(DA-IICT), Gandhinagar as Associate Professor from April 2009 - May 2013. His general research interests are in analog/RF integrated circuit & system design, digitally-assisted analog circuit design, analog decoding and embedded-systems for biomedical and energy-harvesting applications. He is also interested in history of Indian science and technology.



Prof. Subir K Roy PhD (IIT Bombay)

Subir K. Roy got his B.E., M.Tech. and Ph.D. degrees from University of Pune, IIT Madras and IIT Bombay in 1982, 1984 and 1993, respectively. Prior to 1993 he worked in Semiconductor Complex Limited, Chandigarh and the VLSI Design Centre, Department of

Computer Science and Engineering, IIT Bombay. From 1993 to 2001 he was with the faculty of Electrical Engineering, IIT Kanpur. From 2001 to 2003 he was with Synplicity Inc, Sunnyvale USA & Bangalore. From April 2004 to January 2013 he was with the Center of Excellence, System on Chip, Texas Instruments India, Bangalore. He spent 2 years from 1998 to 2000 carrying out research on formal verification in Fujitsu Laboratories Limited, Kawasaki, Japan, on a sabbatical from IIT Kanpur. His research interests are in hardware formal verification, power estimation, performance analysis, CAD for VLSI and embedded systems.

Prof. Sujit Kumar Chakrabarti PhD (IISc Bangalore)



Sujit Kumar Chakrabarti has a PhD from the department of Computer Science and Automation, Indian Institute of Science, Bangalore. Prior to that he has a masters from University of Roorkee (now IIT

Roorkee) in measurement and instrumentation, and a BE in electrical engineering from Nagpur University. His research interests are centred around software engineering, formal methods and software testing.

Sujit has nearly 8 years of experience in the industry, with companies like Tata Consultancy Services, Philips and General Motors both in research and software development. His research has touched a wide variety of domains like automotives, healthcare, web-services, compilers and process automation. Prior to joining IIITB, Sujit was with Jed-i, an educational startup involved in spreading the message of the joy in engineering. In Jed-i, Sujit's time was spent interacting with students,

building a variety of engineering projects and creating educational content. Sujit's technical interests are in programming, engineering, and tech-blogging. He also has an irrepressible artistic side being a cartoonist of fair calibre and a flair for sketching and water colours. He is also an ardent blogger.

personal website: http://sujitkc.blogspot.in



Dr Bidisha Chaudhuri,PhD South Asia Institute at the Heidelberg University, Germany

Dr Bidisha Chaudhuri has joined the institute as consulting faculty consulting faculty in the Centre for Information Technology and Public Policy (CITAPP)

w.e.f. 5th September, 2013. She has completed her PhD from the South Asia Institute at the Heidelberg University, Germany in 2012. The title of her doctoral thesis was Hybridising (e) Governance in India: The Interplay of Politics, Technology and Culture. She received an M.A in Sociology from Delhi School of Economics, University of Delhi and a Joint European Masters in Global Studies from University of Leipzig (Germany) and Vienna University (Austria). She wrote her Master's thesis on Global Governance and a case study of WTO. She has worked in research institutions and developmental organisations in India and abroad. Her research interests include governance, gender and development, information communication technology (ICT) for development, policy reform and South Asian politics.

Adjunct Faculty



Tridib Roy Chowdhury

Dr. Tridib Roy Chowdhury, graduated with B-Tech, Computer Sci- ence, from IIT-Kharagpur in 1986. He then proceeded to complete his M.S. in Computer Science from the University of Maryland, College Park, specializing in large intelli-

gent databases. From 1988-1990, he was the CTO of Micronet Corporation in Maryland, USA and was involved in the development of some of the first desktop based document content management sys- tems. He is currently Director-Technology and Co- Founder of STEX Software, a leading firm in the area of document content management systems and business process management systems. His primary interests are in the area of multi-dimensional in- dexes, object databases, image compression and quality systems.

Subhajit Datta

Dr. Subhajit Datta received a Ph.D.

in computer science from the Flor- ida State University. He has more than 10 years of experience in soft- ware design, development, and re-

search at a number of organizations. Subhajit is the author of Software Engineering: Concepts and Ap- plications (Oxford University Press, 2010) and Met- rics-Driven Enterprise Software Development (J.Ross Publishing, 2007).



Dr H Gokul

Dr. H. Gokul received his B.Sc (Hons) and Master's degree in Bot- any from Central College, Banga- lore and Ph D from Bangalore Uni- versity in Plant Biotechnology. His areas of interest are Plant Tissue

Culture, Natural Products and Conservation of Bio resource. He has 49 research presentations and pub- lications in National and International workshops/ symposia/conferences and journals. A Senior Mem- ber of the Asia-Pacific Chemical, Biological & En- vironmental Engineering Society, he is also a Life Member of the International Association of Environ- mental Botanists (Paris). His invited visits include the Harvard University Herbarium, MA, Missouri Botanical Garden, St. Louis, MO and the South Illi- nois University at Carbondale, IL, USA. He is a life member of the Indian Red Cross and the Yoga Re- search Foundation, PA. He has been a technical committee member of several international confer- ences and is also a reviewer of ICEEB Journals.



Prof Roland E Hass

Prof. Roland E. Haas studied Com-

puter Science, Mathematics and Electrical Engineering at the Uni- versity of Karlsruhe and the Tech- nical University of Clausthal, Germany. His studies were supported by the German National Merit

Foundation (Studienstiftung des Deutschen Volkes) and the Mercedes-Benz Scholarship Foundation. He received his Doctorate degree from the Technical University of Clausthal in 1997. He was a visiting researcher at the Kyushu Institute of Design, Fu-kuoka, Japan and at the Daimler Chrysler Research Center in Palo Alto, CA, USA. He has been with Daimler Chrysler for 13 years working in different divisions like Research & Technology, Engineering

Passenger Cars, IT Management and Engineering Airbus. From 2001 to 2006 he was Managing Direc- tor of Daimler Chrysler Research and Technology India, Bangalore. His relation with IIIT-B dates back to 2002 when he started a lecture series in Automo- tive IT and Embedded Systems. Having worked on the borderline between information technology and engineering for more than a decade his research broadly focuses on digital product development top- ics including advanced product data management, engineering workflow automation, concurrent and simultaneous engineering as well as knowledge

based engineering. He is also interested in architec- tural and performance aspects of complex software systems as well as design issues of mechatronical and embedded systems. Recently he started the com- pany QSO Technologies which was incubated by IIITB. QSO Technologies consults clients in R & D outsourcing, develops customized IT solutions in the Life Sciences domain and provides outsourcing ser- vices in systems engineering and software develop- ment. Roland Haas is the author of numerous papers and 2 books while a third textbook is in the making.



Shyamala Kamath

Shyamala Kamath started her ca-

reer in the Public Relations & Hos- pitality Industry nearly two dec- ades ago. Having done her Travel

& Tourism course from lata-Uftaa (Canada),

she worked for thirteen years with M/S Stic Travels (P) Ltd, a General Sales Agent for seven of the World's finest Airlines. She has trav- eled extensively for various Seminars and training programs run by the various Airlines. Analytical thinking and conflict resolution have been her areas of strength which has given her exposure to many "Train the Trainer" programs.

She has been associated with IIIT-B since 2007.

Apart for IIIT-B, she has taught at The Art of Learn- ing Global Entrepreneurship Academy (TALGEA) and Indian Business Academy (IBA).



Muralidhar Koteshwar

Muralidhar Koteshwar has two dec-

ades of experience after a B-Tech from IITMadras, rated as one of the top engineering academies in the world in a career that spans a com-

plete product life-cycle – Product Conceptualization and Development, Usability design, Quality (ISO & SEI CMM), Sales, Marketing, Product management, Competency Development, Corporate Communications and Program management in cross-cultural transoceanic teams.

A part of the team that built India's first Supercom- puter the PARAM at CDAC,he subsequently held leadership positions in multinational organisations like Tektronix (color printing division that was taken over by Xerox), Tata Elxsi, Celstream and Trilogy. He is currently the founder and CEO of Usability Consulting India, Director at Parjanya Technologies

 an online mentoring platform company and visit- ing faculty in Usability Engineering at IIIT-B.

Over the last few years he has trained thousands of IT industry professionals in both technical and lead- ership domains

He is equally passionate about education and as a Member of the Board of Trustees of the Art of Liv- ing's Educational Trust was responsible for estab- lishing over 100 educational institutes, employing

1600 staff and catering to 20,000 students.

He is the course director for its well known teacher training and parent training programs that have posi- tively impacted over 200000 people worldwide

He travels worldwide speaking at International Seminars and training thousands of teachers and pro- fessionals in schools, homes and organisations.

S. Nagarajan

S. Nagarajan is currently Technical Di-

rector at NetApp India, where he contrib- utes to engineering Storage Systems. He has over 28 years of working experience in Computer Systems R & D. His current

research interests are in Storage Systems, Emerging Computing Infrastructure, Operating Systems and Computer Architecture. Nagarajan holds a graduate degree in Electrical Engineering from the University of Calicut (topper from the University) and M.S (by Research) from the Indian Institute of Technology, Madras. Previously he was Director (Systems) and Distinguished Technologist at HP, responsible for the R & D activities for Enterprise Servers, Storage & Networking Division. He started his career as R & D systems software engineer at Wipro Ltd., with re- sponsibility for contributing to the development of computer and embedded systems. While at Wipro, he worked on several international assignments with customers such as Intel Corporation, Tandem Com- puters and Xerox Corporation. He worked as Gen- eral Manager at Philips R & D, with responsibility for embedded software of Consumer Electronics products. He co-founded Bluefont Technologies, a technology startup in the digital convergence and wireless LAN domain. He also worked as Director of Technology at IPVALUE, contributing to intellectual property valuation. Nagarajan is a Senior Member of the IEEE. Member of the ACM and USENIX.



Joy Prabhakaran

Joy did his B.Tech in E&ECE from IIT Kharagpur (84-88) and MS in EE from Michigan Tech (88

-89). At different stages of his ca- reer he has been a teacher, an en- trepreneur and has also worked for

various companies. Joy has worked in diverse areas of technology and he is passionate about finding synergies between these areas. Lately, his work has been in the areas of mobile technologies, multime- dia, printer firmware, aerospace hardware systems and building control technologies. His likes to work at the system conceptualization level and also at the algorithm/logic level. Joy holds two patents granted by the USPTO and also holds a six sigma green belt.



Eswarrao Potladhurthi

Prof. Eswara Rao currently working

as Staff Engineer in Systems and Technology Group of IBM Banga- lore and also as an Adjunct Faculty at IIITB. He did his B.Tech from JNTU Hyderabad and M.Tech from NIT Nagpur in

2005 and 2007 respectively. After his masters he worked as Design Engineer at Edison miconductors and then as Assistant Professor at NIT Nagpur. He is been a part of design and development of various memory products at Edison,IBM and various Analog research activities at NIT Nagpur. He has couple of patents and publications in National/International conferences.He also gave Invited talks at various conferences and workshops. His research interests are Analog Circuit Design, Memory Circuit Design and recetly started designing with FinFETs.



S Ramesh

Prof. S Ramesh earned his B.E. degree in Electronics and ommuni- cation Engineering from Indian Institute of Science Bangalore and his PhD degree in Computer Sci- ence & Engineering from Indian

nstitute of Technology Bombay. He has been with General Motors Global R&D for the last seven years. Prior to that, he was on the faculty of the de- partment of Computer Science & ngineering at IIT Bombay, for more than fifteen years. His areas of interests are Rigorous Software Engineering, Em- bedded Systems and Real-Time Systems. He has published more than 90 papers in International journals and conferences. He is on the editorial boards of the International Journal on Real-Time Systems and Eurasip Journal on Embedded Systems and earlier on IEEE Journal on Embedded System Letters. He is a fellow of the Indian National Academy of Engi- neering.



Hema Krishnamurthy

Area: Financial Reporting & Analysis She is a Fellow Member of the Insti- tute of Chartered Accountants of In- dia.



Revathi Shivakumar

Revathi Siva Kumar is a Delhi University (Literature) postgradu- ate, who has worked for 13 years in The Times of India and Deccan Herald. She handled news and fea-

ture supplements and wrote on developmental is- sues, health, education, environment and social jus- tice. In 2000, she switched to Indiainfo.com as Channel Manager, then joined Infoglobe, an Ohiobased portal on Brain Research, as Team Lead, and next became Special Correspondent for GPS issues at Geospatial Today.

Since 2004, she has been a freelance journalist, writer, poet and instructor. Her projects include a

book on rainwater harvesting, six American e-books and scripts for educational CD-Roms. Currently, she is a Senior Editor at Manyagroup. She has taught at Indian Business Academy and Princeton Review, apart from IIIT-B.



Abbas K Sutarwala

Prof. Abbas enjoys developing software and teaching and mentor- ing good programming. Abbas has over 40 years of hands-on experi- ence in programming and software

development with reputed companies like TCS and Tata Elxsi. He has worked as Team-member, Project Leader, Group Leader and on-site Project Manager for several development projects in India and abroad. Abbas was a Senior Faculty at the TCS Cor- porate Learning Center in Trivandrum and teaches as "Visiting Faculty" at IIIT-B. Abbas authored a book on "Good Programming Skills & Practices" and has delivered workshops on the subject at TCS, Tata-Elxsi, Wipro, CSI, etc.

Abbas is currently a Consultant for Programming Practices at ASL Advanced Systems Ltd., Banga- lore.



KRV Raja Subramanian

Dr. Raja Subramanian founded Radix

Learning in June 2006 with a team of professionals who share a passion for creating innovative learning solutions and services. Prior to founding Radix

Learning, Dr Subramanian co-founded Ascendum Systems in March 2000 along with a group of pro- fessionals hailing from some of the well-known business houses and lvy-league institutions in India.

Before co-founding Ascendum Systems, Dr Subra- manian served as Professor of Computer Science and Dean of Distance Learning at BITS Pilani. Dr Subramanian has a unique mix of academic and corporate experience where he has led from the front for over 28 years. Dr Subramanian holds a Master's Degree in Economics, a Master's Degree in Com- puter Science and a PhD in Computer Science



Venkatesh K

Venkatesh K has over 16 years experience in IT industry. He has worked extensively in the IT areas of software design & development,

product engineering, localization, sales, marketing, support and offshoring strategy. He has worked with engineering teams and customers / prospects in vari- ous geographies such as India, US, Europe and Ja- pan. He has traveled in / visited the US, Belgium, The Netherlands, France, Switzerland, Luxembourg, Thailand, Nepal, Sri Lanka and India.

Venkatesh has performed the various academic ac- tivities, a few of which are listed below. 1. Co-taught a full credit elective course "Managing Soft- ware Business" at the Indian Institute of Management, Lucknow 2. Taught a 3-credits course "Marketing of Information Technology" at the In- dian Institute of Management Bangalore from 2003 to 2009 3. Lecture on "Intellectual Property in the context of Offshoring" (Jan 2006) and IT offshoring (Feb 2011), (both via video conference) to the Post- Graduate students of Law at The University of Michigan Law School, USA 4. Lecture on "Launching of IT products and services", at the School of Management Studies, Indian Institute of Science, Bangalore (Jan 2007) 5. Taught a full credit course "Marketing of Information Technology" at the Thiagarar School of Management, Madurai in 2011 6. Taught "Electronic commerce business models" as Guest Faculty at the post graduate ecommerce technology students of Padre Conceicao College of Engineering, Goa, India (May 2004). 7. Lecture on "Pricing of information technology prod- ucts" (via video conference) to the students of LP University, India 8. Lecture on "Introduction to Marketing of Information Technology" at Thiagarajar School of Management, Madurai, India (Jan 2010)

9. External examiner for various student projects in IIM Bangalore 10. Panelist for PGSEM interviews at IIM Bangalore

Venkatesh has authored a book "Marketing of Infor- mation Technology: Concepts, Products, Services and Intellectual Property", published by McGraw- Hill Education; ISBN 9780070152939 / 9780070248724. This was / is used as a prescribed text / reference in various IIMs and other business schools. He is currently authoring his second book on Software Engineering Practices, which he expects to publish soon. Venkatesh has been a Guest Speaker and Panelist in industry forums such as TCWorld (2012) and STC Conference (2009).



Shakeel Ali

Shakeel Ali owns BE degree in Computer Technology. Currently he runs a

Software Consulting and Corporate Training company in Bangalore. He works on archi-

tecting and developing Distributed and Web Appli- cations using C++, Java, .NET and JavaScript plat- forms. He has trained project teams at various corpo- rates including: Accenture, McAfee, Morgan Stanley, Siemens, Capgemini, Nokia, Thomson Reuters, HP, Samsung, Intergraph, etc.



Prof. A Srinivasan

After graduation from St. Joseph's

College, Trichy and post graduation in Chemistry from IIT Madras, he received his Ph.D. from Indian Insti- tute of Science for his thesis titled "Study of surfaces by electron spectroscopy". He served as a faculty at

National College, Basavangudi, Bangalore for nearly 4 decades. Presently, he is associated with the 4 yr BS programme at IISc. He is involved in teacher training and in popularizing science in rural areas. He is presently the Secretary of the Karnataka Asso- ciation for the Advancement of Science (KAAS), Bangalore.

Visiting Faculty

Dr. Eswaran Subramanian, Ph.D



Dr. Eswaran Subrahmanian received

his PhD degree from Carnegie Mel- Ion University. He worked as Trainee Design Engineer, MN Dastur & Company, Consulting Engineers, Cal-cutta during. He also worked at CMU at various ca- pacities during 1976-1998. He is holding a position as a Research Professor, Institute for Complex Engi- neered Systems, CMU since 1998. Right now he is working as a Chief Architect/Founder, Elefon Incor- porated since 2002.

Dr. Subrahmanian had Consulting Assignments with ABB Corporate Research, Billingstad, Norway, Hosch Research Technology Center, Pittsburg, Uni- versity Industry Research Co-operation, Boeing Se- attle, WA: Technology Consulting, World Bank, Air Products and Lytix. He has published several books and also published several papers in referred jour- nals. He has attended various conferences both in India and abroad.

PROF JAYA SREEVALSAN NAIR

Publications:

- A. Narayan, J. Sreevalsan-Nair, K. Gaither, and B. Hamann, Isosurface Extraction from Hybrid Unstructured Grids Containing Pentahedral Elements, to appear in: Kraus, M., Laramee, R.S., Battiato, S., de Campos, T., Jurie, F., Kato, Z. and Raducanu, B., eds., Proceedings of International Conference on Information Visualization Theory and Applications 2012 (IVAPP 2012).
- C. Auer, J. Sreevalsan-Nair, V. Zobel, and I. Hotz, 2D Tensor Field Segmentation, Scientific Visualization: Interactions, Features, and Metaphors, Schloss Dagstuhl-Leibniz-Zentrum fur Informatik 2011, vol 2, 17-35.
- K. Patel, J. Savalia, and J. Sreevalsan-Nair, Parallelization of Complex Event Processing, 18th Annual International Conference on High Performance Computing 2011 - Student Research Symposium (HiPC2011-SRS), Dec. 2011, http://www. hipc.org/hipc2011/studsym-papers/1569512661. pdf

Conferences attended:

- Attended and presented paper at International Conference on Information Visualization Theory and Applications 2012 (IVAPP 2012). Paper #1 with Akshay Narayan, Bernd Hamann and Kelly Gaither - Feb 25-27, 2012 in Rome, Italy.
- Attended National Spatial Data Infrastructure (NSDI) 2011 organized by KSCST - Jan 11-12, 2012, at IISc, Bangalore.
- Attended and moderated a panel discussion on "Teaching as a Rewarding Career" at Grace Hopper Celebration of Women in Computing in Bangalore, India - Dec 14-16, 2011 in Bangalore.
- Attended and chaired a session at International conference on frontiers of computer science (ICFOCS) - 2011 at IISc, Bangalore.

Lab Details:

 Graphics Computing Lab, PI: Jaya Sreevalsan Nair, started by an initial grant of teaching kit including NVIDIA graphics cards and teaching assistant stipend given by NVIDIA as a part of inducting IIIT-B as an NVIDIA Center for Teaching CUDA.

PROF JYOTSNA BAPAT

Publications:

- Sai Manoj P D, Sasirekha GVK and Jyotsna Bapat, "A novel approach for coexistence of ZigBee with WiFi", accepted, ICSIP 2012, Paris, France.
- Joseph Jeffrey, Roshan G Patil, Skanda Kumar K N, Yogish D, Jyotsna Bapat and Debabrata Das, "Smart Parking System using Wireless Sensor Networks", accepted, SENSORCOMM 2012, August 19 - 24, 2012 -Rome, Italy
- Sasirekha GVK, Jyotsna Bapat, "Adaptive Model based on Proactive Spectrum Sensing for Emergency Cognitive Ad hoc Networks", Accepted, CROWNCOM, June 18-20, 2012
- Sasirekha GVK, Jyotsna Bapat, "Optimal Spectrum Sensing in Cognitive Ad-hoc Networks: A multilayer approach", CogART2011,ACM Digital Library ISBN: 978-1-4503-0912-7doi>10.1145/2093256.2093287
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Collaborations

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WIRELESS NETWORK LAB -- WNL (PROF. DEBABRATA DAS)

The lab focuses on research involving networking standards and technology. Current research work concentrates upon latest broadband wireless access technology – WiMAX/ LTE. Major areas of work include, medium access control (MAC), QoS, QoE, power management, media independent handover (MIH). Microsoft Research India and TCS Research Ph.D fellowship students work in this lab.

MOBILE COMPUTING AND IMS INNOVATION LAB (PROF. DEBABRATA DAS)

In this lab the projects are sponsored by HP and Nokia. The R&D focus on video and audio streaming including handheld devices, as also Video Media Platform, Charging , Service Delivery in IMS using Application Servers, XDMS, HSS and Presence servers. Moreover, this lab addresses issues related to quality of service modeling in IMS architecture with respect to differential traffic.

SNIA - IIIT-B LABORATORY (PROF. G. N. S. PRASANNA)

The institute in collaboration with the Storage Network Industry Association host the SNIA IIIT-B Lab, an inter- industry centre for training, education network and research in all aspect of storage technology. The centre functions as a model centre in this area for academics and industry in India and South Asia ingeneral.

POWER LINE COMMUNICATION LAB (PROF. GNS PRASANNA & PROF. JYOTSNA BAPAT)

This lab has been sponsored by NXP. The research focuses on various aspects of power line communication for AMR over low voltage power lines. The areas include channel modeling, transceiver design and MAC layer design.

COMPUTING SYSTEMS LAB (PROF. SHRISHA RAO)

This lab focuses on systems research, with a focus on contemporary issues such as virtualization, security, reliability, energy-aware computing, high-performance computing using multicore systems, and cloud computing. There are diverse architectures and operating systems in use, such as SPARC, Mac Minis running Mac OS X 10.6, Cell Broadband Engines on Sony PS3s running Yellow Dog Linux, dual-core 64-bit AMD Opterons running FreeBSD, Open SUSE, Open Solaris, and Windows 7/XP.

CENTRE FOR SPATIAL INFORMATION SCIENCES (PROF. S RAJAGOPALAN)

The Centre for Spatial Information Sciences (CSIS) at IIIT Bangalore was established in October 2006. The centre carries out basic and applied research in Geographic Information Sciences Domain, like Geographic Information Retrieval. GIR can be considered as a specialization of Information Retrieval, it takes into account the spatial and Object Oriented Spatial Databases; Geographic Ontology- the studyof geographic objects and the relationship between them and sensor maps.

OPEN SYSTEMS LABORATORY (PROF. SRINATH SRINIVASA)

The Open Systems Laboratory (OSL) at IIIT Bangalore was started in 2002. It works in the broad areas of data and information systems engineering, graph data management, web information retrieval, text mining, social network analysis, mobile data management, distributed computing and openworld computing. The lab also hosts the first PlanetLab (www.planet-lab.org) node in India. PlanetLab grid is a worldwide grid for testing distributed algorithms. The OSL is also involved in another major project called Silverfish, whose objective is to develop a wide-area data grid for academic materials and course pages.

SOFTWARE DESIGN LABORATORY (PROF. K. V. DINESHA)

The research focus here is on the design and architecture of software. Design patterns approach for the software development process is studied, with special emphasis on the impacts of design principals and patterns on the flexibility as one of the prime focus.

DOCUMENT ENGINEERING LAB (PROF. CHANDRASHEKAR RAMANATHAN)

Documents still constitute a significant content type in the enterprise today. Document Engineering deals with developing algorithms, techniques, tools and processes that help in creating and manipulating the content, format, and representation of documents. There are several challenges being addressed as part of Document Engineering. The DocEng lab explores the various standards and tools available in this space. Following are some of the projects

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Research Labs

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from the Lab:

- Pralekhasaara (for interactive content chunking and assembling)
- ORCA (Online Repository for Content Assembly)
- DocuBhasha (translation of documents, supported by Microsoft Research)

INFORMATION CONVERGENCE LAB (PROF. CHANDRASHEKAR RAMANATHAN)

The revolution of mobile phones made media convergence possible. Today we don't need separate devices for talking on the phone, listening to music, watching videos, surfing the Internet, reading/sending emails. Information convergence is a similar concept that is focused on interoperability of information scattered across multiple dimensions and multiple sources and destinations. The focus of the Information

Convergence Lab (I-COG Lab) is to first identify and define various information convergence challenges that are relevant to the real world. The current focus of the lab is to start with a study of information convergence challenges specifically targeted at large enterprises and the government. Based on this understanding of the needs and contexts of information convergence, the lab will specify reusable frameworks that address these challenges in a unified and integrated environment. The focus would be to develop standards- based solutions that can be applied widely.

CENTER FOR ELECTRONICS AND EMBEDDED SYSTEMS (PROF. P G POONACHA)

The Center for Electronics and Embedded Systems (CEEMS) Lab's objective is to nurture talent by focusing on Embedded Computing, Wireless Communication and Computer vision. Facilities available in the lab will enable world class research and education and will be seen as an extension of the strong Information Technology (IT) Core competence already available at IIITB. CEEMS Lab collaborates with public and private organizations to do research and development in the emerging areas of embedded systems to bridge the gap between academia output and industry requirements thus providing every learner an equal opportunity to become industry ready.

CEEMS lab is funded by the government of Karnataka.

WIRELESS SENSOR NETWORK (WSN) LAB (PROF. JYOTSNA BAPAT)

Machine to machine (M2M) communication is going to be one of the major areas of R&D in networking and communication specialization. M2M faces multiple challenges and some of the major issues related to efficient communication between sensors, protocols, power saving in sensor, etc. In IIITB we have a WSN lab which supports multiple R&D projects on sensor networks. This lab has been sponsored by Govt. of Karnataka for development in embedded systems.

ELECTRONIC SYSTEM DESIGN AND MANUFACTURING(PROF MADHAV RAO)

Electronic system design and manufacturing (ESDM) lab is sponsored by Government of Karnataka. The lab involves design and limited fabrication facilities to develop interconnects, wiring, and micro-scale soldering. State of art optical microscope which is used to capture high resolution images of around 1 micron. The design facilities includes mentograhics commercial software, electric MOSIS compatible open source softwares, and Matlab softwares. The lab includes semiconductor characterization facilities and 3D printer. Currently research projects such as nanomagnetic logic gates in collaboration with IIT-Bombay, 3-D high frequency antenna in collaboration with IISc is in progress. The lab will be used for Graduate students enrolled for IC design and fabrication course taught in Spring semester.

HIGH DENSITY ELECTRONICS SYSTEM LAB(PROF MADHAV RAO)

HIDES lab is a part of CEEMS project sponsored by Government of Karnataka. The lab is extensively used by undergraduates (IMTECH) students for their basic electronics laboratory course and physics course. IMTech students build various analog circuits, digital circuits, and sequential circuits. High end Oscilloscopes, function generators, power supply's are available to test the circuits. The lab activities includes various projects derived from Arduino controller. Graduate students use this lab to perform research experiments using ABB commercial robot. HFSS, a commercial electromagnetic software to design high frequency antenna is also available in the lab.

OTHER RESEARCH ACTIVITIES

IT & Society (Research funding from Ministry of IT, Bill & Melinda Gates Foundation, Canadian, UK and Euro funding agencies, part of the most prestigious conference ACM / IEEE ICTD 2006, 2007, 2008; 2007 conference hosted in Bangalore, 4 M Tech theses, 1 PhD student, 15 publications) Balaji, Sadagopan, Rajagopalan

Technology in Education (Research funding from Ministry of IT, international agencies, IEEE International Conference in Bangalore (July 2009), part of OCW Consortium, co-working with MIT, 3 M Tech Theses, 2 PhD students, 4 Teacher training programs),Ramani,Chandrashekar,Rao,Prabhu



REAL TIME SEARCH (RTS) (PROF. GNS PRASANNA)

The Real Time Search project aims to build a search capability on mobile phones based on location and service. Mobile users can use this facility to look for services in an area, track friends or means for transportation. Mobile users providing a particular service can use this as a medium to provide 'location aware' marketing. The students of IIIT-B involved in Real Time Search are working extensively in the area of spatial databases handling highly transient data, aiming to achieve high rates of updates &queries per second. Algorithms to handle the various types of queries are also being developed to work in coordination with the database to provide accurate results in real-time.

ICHESS (PROF. GNS PRASANNA)

iChess or inverse chess, developed by the students of IIIT-B aims to play a game of chess in reverse. The aim of the game is to reach the initial game position of a chess game from some arbitrary starting position. A game of chess in reverse leads to a lot of complications which is essentially a combinatorial explosion of possibilities of move sat each stage of the game. In iChess, pieces are spawned as opposed to that of chess The current work focuses on designing an arbitrator to check the validity of the board position while playing and analyzing the number of iChess games possible.

CHITRAKAVYA (PROF. GNS PRASANNA)

Chitrakavya is an ancient art of writing in special artistic patterns. There are many instances in our ancient scriptures where writers have written poems which can be reading multiple patterns to mean completely different things. An example of this is the "knight's tour" pattern in Paduka Sahasra. The students of IIIT-B are working on creating and displaying such patterns and the mathematics involved in it.

SUPPLY CHAIN MANAGEMENT (PROF. GNS PRASANNA)

The research deals with deriving the optimal solution under uncertainty for a typical supply chain network with the application of optimization techniques. This is done by specifying constraints (results in a convex polytope) considering the behavior of various decision makers who operate in a de-centralized manner and include suppliers, warehouses, distributors as well as the consumers associated with the demand markets.

SPECTRUM SENSING MECHANISMS (PROF. JYOTSNA BAPAT)

Exploration and comparison of various spectrum sensing mechanisms to detect activity of 802.11, 802.15.4, digital TV transmission, microphone and radios in the 900MHz ISM band using an USRP based SDR platform.

KANAJA PORTAL (PROF. S. RAJAGOPALAN)

The Institute has been awarded a project by the Karnataka Knowledge Commission to design, develop, host and maintain a knowledge portal in Kannada. This portal is Kanaja (www.kanaja.in). Kanaja basically is the store house of knowledge in Kannada in web form. In a much broader context, Kanaja is the store house of granaries in villages by farmers and others. It is not an encyclopedia but the portal will be encyclopedic in nature. It is going to be a dynamic one as against a static one where the content is stored and that will change forever to suit the needs of web reading public. As it is an initiative by Karnataka Knowledge commission and funded by Government of Karnataka, it has both educational and proper dissemination of correct information to general public. Easy access to knowledge, creation and preservation of knowledge systems, dissemination of knowledge and better knowledge services are core concerns of this portal. This portal will be acting as a one stop of contact for all knowledge related things in Kannada. This portal aims to gather and create knowledge in Kannada language but not essentially knowledge only on Kannada.

JNANA SANJEEVANI (PROF. K. V. DINESHA)

Jnana Sanjeevani is a joint-effort of IIIT-B and Samatvam Endocrinology Diabetes Center (SEDC), Bangalore. The application developed as part of this project is complete, end-to-end, software aimed at streamlining various activities of the SEDC. The project covers aspects of hospital maintenance such as staff administration, patient monitoring including registration, medical history and billing, inventory management and creating and maintaining a knowledge base.

DESIGN OF AN OFDM TRANSCEIVER FOR AUTOMATIC METER READING (AMR) IN POWER LINE COMMUNICATION (PLC) SYSTEMS (PROF. JYOTSNA BAPAT)

This industry sponsored project deals with design of an OFDM based transceiver for automatic meter reading (AMR) over low voltage power lines. The power line channel is characterized by its time-variant nature and very poor SNR conditions. Applications such as AMR systems require relatively low bit rate and high reliability. Keeping these requirements in mind, an end-end solution is built.

COGNITIVE RADIO - COLLECTIVE LEARNERS (PROF. JYOTSNA BAPAT)

The cognitive radio, built on a software-defined radio, is defined [Simon Haykin, 2003] as an intelligent wireless communication system that is aware of its environment and uses

the methodology of understanding-by-building to learn from the environment and adapt to statistical variations in theinput stimuli, with two primary objectives in mind; highly reliable communication whenever and wherever needed and efficient utilization of the radio spectrum. Using the platform built by Ettus research, we are developing an end- to-end communication system to allow a typical Wi-Fi device to communicate with a typical Bluetooth device. To achieve optimum spectral usage, a game theory based approach is being proposed. The cognitive devices are modeled as self learning multiagents that learn from their own experiences as well as learn from other radios.

INVESTIGATION OF KK,CKK AND PKK ALGORITHM FOR INTEGER PARTITIONING (PROF. K. V. DINESHA)

Karmarkar-Karp algorithm and Complete Karmarkar Karp algorithm are the best known heuristic approaches for partitioning a set of integers. Integer partitioning is a very old and interesting problem which is NP complete, while efforts are in progress to come up with a replacement of original KK algorithm, our approach instead complements the KK algorithm, either using it as a part of the algorithm, or the inputs are treated before being fed to KK, one such process/method of treating the input before giving to KK is paketization. The probability of getting a perfect partition (The difference between the sum of elements in the sets is minimal) is estimated for various Range and Cardinality ratio and is used as a parameter for comparison.

BROADBAND WIRELESS ACCESS GREEN **NETWORK: SPONSORED** BY DEPT. OF INFORMATION TECHNOLOGY, GOVERNMENT OF (PRINCIPAL **INVESTIGATOR:** PROF. INDIA DEBABRATA DAS AND CO-PI: PROF. JYOTSNA **BAPAT**)

The growth in wireless access technologies has its basic limitation of mobile devices, i.e. their limited battery power. There are multiple interesting challenges with respect to power saving of a mobile device, as it affects quality of service (QoS), quality of experience (QoE) (like, delay, packet loss, jitter etc.) of real time and non-real time services. Thus the objective of this proposed project is to design optimized power management strategies for wireless mobile devices based on IEEE 802.16e/m based Mobile WiMAX. We perceive efficient power management can be achieved through both optimization of network access as well as optimization of the operations of the device.



MOBILE COMPUTING: SPONSORED BY NOKIA

RESEARCH CENTER AND UNIVERSITY RELATION, FINLAND (PROF. DEBABRATA DAS)

Environment to support Mobile Computing on Broadband Wireless Network and IMS services by IMSUE/Mobile-Devices and its performance evaluation. Additionally, the quality of service delivered to the mobile users over broadband networks will be studied.

BINAURAL CUE CODING (BCC) (PROF. JYOTSNA BAPAT)

This project explores areas of Spatial Audio Coding (SAC). With conventional audio coders such as MPEG -2, the bit rates scale as the number of channels increases. Without specific matrixing, traditional multichannel coding is restricted to a certain number of channels e.g. 5.1 and speaker placement. BCC aims at separating the basic audio content and the information relevant for spatial perception. Matlab based model will be built first followed by an ARM implementation.

SEEKHA: AN INTELLIGENT SEARCH ENGINE FOR CONCEPT EXTRACTION AND CONTEXTUAL DATA RETRIEVAL (PROF. SRINATH SRINIVASA)

This project, originally titled "Contextual Knowledge Assistance for Academics (CKAA) is now pursued under the name "Seekha" (meaning, "I learnt" in Hindi). The project aims to create a web-based portal where academic activities, events and programs from Institutions across the country, can be consolidated and searched with various levels of intelligent behavior.

CASE STUDIES FOR DESIGN AND OO MODEL FOR COMPUTER GAMES (PROF. K. V. DINESHA)

We have chosen four games viz. Chess, Tetris, Packman and Battle field for building case studies. The objective is to identify classes, objects, relationship between objects and classes in OO model of each of these games. We explore few designs for each these games and study the flexibility of these designs. Use some tool (like RSA, Netbeans etc) to enter this model. We also implement (in java) prototypes of these models. In addition to build a general framework for board games we hope that these designs, models and implementations to act as a rich set of artifacts useful in teaching OO modeling, design patterns and frameworks.



BLOGLEARN: A BLOG ANALYTICS ENGINE

(PROF.

SRINATH SRINIVASA)

This work proposes a blog analytics engine, primarily aimed at corporate blogging environments. The platform, called BlogLearn, aims to support rich analytical queries over a repository comprising of blog posts and different users. The basic building blocks of this engine include concept and containment hierarchies over entities, and an entity co- occurrence graph.

MINING SEMANTICS FROM LEXICAL CO-OCCURRENCE GRAPHS AND CONCEPT HIERARCHIES (PROF. SRINATH SRINIVASA)

The first part of this work looks at modeling textual data as a cooccurrence graph in order to mine patterns in the contextual cooccurrence of words. The second part of this work looks at identifying semantics from the co-occurrence patterns of words by modeling textual data in terms of a co- occurrence graph as well as a concept hierarchy. The concept hierarchy bootstraps with some initial relationships being tagged by a human. The idea is to look at the co-occurrence patterns of concepts that have been tagged by the human and extract more such relationships in an automated fashion.

DESIGNING OPTIMAL NETWORK TOPOLOGIES UNDER MULTIPLE EFFICIENCY AND ROBUSTNESS CONSTRAINTS (PROF. SRINATH SRINIVASA)

In this work, we propose that network design is governed by the tradeoffs between three critical parameters: efficiency, robustness and cost. We model performance requirements of several classes of networks in terms of the above parameters and address network design as an evolutionary optimization problem. This leads to a compendium of recurring topology classes that are optimal under a variety of performance requirements.

SELF TUNING ENERGY AWARE ENSEMBLE MODEL FOR SERVER CLUSTERS (PROF. SHRISHA RAO)

With the growing use of cluster systems in web servers, file distribution and database transactions, power conservation and efficiency have been identified as critical issues in the design of server cluster systems. To reduce power consumption, a master in a server cluster should hibernate the idle servers following the pattern observed from the historical data. This project focuses on finding patterns from historical data, decision logic to send a server to hibernation.

VITERBI DECODER ON CELL BROADBAND ENGINE (PROF. SHRISHA RAO)

The Project implemented Viterbi Decoder on the Cell broadband Engine (CBE) that reduces computational time and space complexity utilizing the multi-core environment and thus improving its performance as compared to its performance on single core architecture. The project concentrated on simulation of communication channels on the hardware of the Playstation-3. The project thus opens a doorway to implement the resource efficient Viterbi decoder in practical communication application.

PORTING MIFOS TO MAC OS X (PROF. SHRISHA RAO)

Mifos is an industry-wide initiative to address the issue of information management in microfinance industries. A new service model is created using the open source paradigm that will increase access to technology for all microfinance institutions, ultimately enabling them to extend their reach to the world's poor. As part of this project, we intend to port the freely available Mifos software to MAC OS X. We aim to integrate Mifos into Fink, which is a framework for porting UNIX software to MAC OS X. This can be achieved by resolving the dependencies, so that it compiles and runs on MAC systems.

LOCALIZING MYSQL : A SYSTEM TO HANDLE MYSQL DATABASES IN HINDI (PROF. SHRISHA RAO)

The dominance of English language in computing has contributed significantly to the great digital divide so prominent in India. The currently available English based applications are totally unfamiliar and intimidating to semi- literate people. The sole focus of the project is to develop a user friendly system that helps a semi-literate person handle data in her/his native language. The system provides interfaces in hindi, both graphical and console based. The system has been developed and tested for MySQL5.5.

DETECTION AND REPORTING OF SPECIFIC NUCLEOTIDE SEQUENCES FROM VARIOUS REGIONS WITHIN GIVEN GENOMIC SEQUENCES (PROF. SHRISHA RAO)

Sequence alignment is a technique of finding common sub-sequences between any two sequences. This project aims in detecting and reporting of specific nucleotide sequences from various regions within givengenomicsequences. This

analysis throws new information on non-coding RNA's, etc. Smith-Waterman algorithm over Cell Broadband Engine (CBE) is used to perform this alignment.

Research Projects



An efficient, and unified monitoring infrastructure that allows system administrators to watch events that are occurring on a server. The system sends notifications in the form of tweets whenever an event occurs on a server. The system watches the server for a scheduled shutdown or reboot and sends out tweets in advance. The server administrator can respond to the events by sending a reply to the tweets of the server beingmonitored.

SECURITY ENHANCED LINUX ON CBE (PROF. SHRISHA RAO)

The project creates an implementation of Security Enhanced Linux (SELinux) on the Cell Broadband Engine (CBE) architecture. SELinux is a Linux security feature that provides fine grained control over all system resources through the use of user defined policies. First, an existing SELinux implementation is ported to a CBE based hardware like the Sony Play Station 3.

STREAMING MULTIMEDIA FAULT TOLERANCE (PROF. SHRISHA RAO)

Multimedia streaming essentially follows server-client architecture. The server streams the multimedia file to the clients. In case of server outage, clients will not be serviced. The main challenge is to continue streaming even at times of server outages in both planned and unplanned cases. In this project we have been able to achieve this continuity in streaming with 99.9999% reliability using Application level fault tolerance.

DICT MINIX: SECURE VERSION OF MINIX3 WITHOUT USING SWAP SPACE(PROF. SHRISHA RAO)

The disk accesses required by common operating systems are a potential security threat when a device crosses a security barrier. One solution to the problem can be to use an operating system which does not write any data to the secondary storage at all. We have provided the solution to this problem by creating an OS based on Minix 3, which can be loaded from a live CD without using any swap space. Also a webserver is run, which serves word requests from clients and returns dictionary meanings from a Webster's Dictionary.



SECURE OS WITHOUT SWAP SPACE – WITH FREEBSD (PROF. SHRISHA RAO)

The project attempts to provide a solution to protect one's data in personal devices during travel. When a person wants to browse internet in a public network environment, it is not advisable to use the laptop or any device with sensitive data. Instead, one can use a Live CD. This is a good idea, but an intruder can still access the data residing in the hard drive. If the Live CD has a provision where secondary storage is completely inaccessible to the intruder, then such an attack would not be possible. FreeBSD is an operating system built from the principles of BSD. This would be ideal for achieving the goal as the FreeBSD kernel offers good level of customization. That being said, the necessary modifications has to be made to the kernel of an existing FreeBSD release to build a secure version of LiveCD.

ANTICIPATORY RETRIEVAL AND CACHING FOR DATA SEARCH AT VARIABLE BANDWIDTHS AND DATA ACCESS RATES (PROF. SHRISHA RAO)

The anticipatory retrieval and caching is a solution that offers a better experience to the users regardless of the network, code and data access details. The idea behind the technique involves anticipating the future actions of the user with respect to the data that might be downloaded and then caching "some" of the data locally so that future accesses to the data does not involve large latencies due to low bandwidth levels, data-transfer and server processing overheads. Caching is done asynchronously in the background, possibly during times of high bandwidth. The System assesses the semantic data relevance, user priorities and availability of bandwidths and prioritizes data downloads based on the relevance quotient to determine what information to download while access to a connection is available.

INTELLIGENT EVENT PROCESSING MACHINE (IEPM) (PROF. SHRISHA RAO)

The ever-growing and constantly generating data flow from various systems like Financial, Military, Stock Market, Banking systems etc. has become a huge responsibility for today's IT environment. Thus, event processing is a data processing technique that comes in handy for making decision about event data in real-time to generate immediate insight and enable instant response to changing conditions. Here, we have developed software which is an open source clone of a product of Oracle prevalent in market these days as Oracle Complex Event Processing (CEP). The software is developed for Linux platform and is called IEPM (Intelligent Event Processing Machine). IEPM is a lightweight, modular



application server for eventdriven applications. Event-driven

applications are concerned with processing streams of real- time events. IEPM provides a rich, declarative environment for the development of event processing applications that can process and act on events. IEPM has been made hot- pluggable by adding more user-side programs. The generic EPN (Event Processing Network) components have been implemented for applications which are arbitrage, simple hello world program and searching for a particular number pattern program.

IMPLEMENTING FUNCTIONALITY OF SERVICE LOCATION PROTOCOL IN CLOUD (PROF. SHRISHA RAO)

This project provides the functionality similar to Service Location Protocol, used to locate services in a local area network without prior configuration, on the cloud computing platform. This project makes use of the advantages of the cloud and eucalyptus architecture and SLP to allow the users to make use of the service without having to know neither the details of cloud nor the configuring details of services. It uses Eucalyptus an open source implementation of cloud as its platform. Eucalyptus has a layered architecture consisting of the server, no decontroller, and node. The application is a web page that allows users to select among the services by specifying the service name and version in an iterative fashion. The results get filtered as the user selects the specification of the service he/she wants to use. Users don't have to know about the platform on which the service is running and other attributes required for running the service, thus giving abstraction and ease of use to users.

CLOUD RETAIL SERVICES (PROF. SHRISHA RAO)

A reseller is a company or an individual that purchases goods or services with the intention of reselling them rather than consuming or using them. This is usually done for profit (but could be resold at a loss). We had proposed to build such a reseller model which could buy applications from the main cloud and sell it to the clients. We have successfully built the model based on this thought. Along with the reselling concept, we have introduced security which has always been a questionable issue in the area of cloud computing. The security feature has been highlighted in the three level hierarchy of our reseller model to the best of our extent.

PORTING EXTEX TO MAC OSX (FINK)(PROF. SHRISHA RAO)

Mac OS X is a modern OS that combines the power and stability of UNIX through its BSD subsystem. This enables the exciting prospect of porting the applications that run on

UNIX to Mac OSX. However, the installation procedure has to be tweaked in such a way that the existing applications does not get affected. Fink is a package management tool that enables porting and the community of developers have laid down the procedure to do the porting process. This ensures that there exists a separation of layers between the OS and the packages that gets installed via fink, so that the operating system will not function in improper manner. EXTEX is a TeX implementation in Java and the installation in other OS is straightforward. To port to Mac OSX, there is a need to create an info file that takes care of the installation. Using the software forms the configuration file of the software needs to be modified. The modified file should be included along with the package, so that the software builds successfully and works out of the box for the user.

CEEMS LAB (PROF. P G POONACHA)

- Development of a blind navigation system using computer, webcam and ultrasound distance sensor to develop a voice feedback system for helping visually handicapped people to move around without human help. An initial prototype was developed during the summer of 2011. The first step is to develop a Laptop based application which captures images of the surroundings as well as signal strength from available wireless access points and gives a voice description of the possible location and its surrounding to the user. Computer vision related problems are yet to be solved satisfactorily. Currently work is in progress to develop a laptop prototype which can access RF signals from wireless access points and give a good estimate of the location based on triangulation technique.
- Rasphberry Pi based low cost computer: The lab staff assembled a low cost computer using open source software and Rasphberry Pi card which has a 700MHz processor to help school children learn programming and use of computers. A demo is currently available. Rpi was conceived by the raspberry pi foundation, a charity based organization in Cambridge,UK
- Swift A Low Complexity Protocol for Event & Location Tracking in Wireless Sensor Networks was developed and its performance was measured using a simulator developed at IIITB. This work resulted in a paper which got accepted for presentation at WOCN2012.
- Improving Capacity over Wireless Channels using Space, Time and Topological Diversity: This is a new form of diversity being studied to increase data rates in future wireless communication systems. A formulation is also proposed which shows the use of Space Time Codes and convolutional signals in improving bandwidth efficiency.

IPv6 Seminar—Jul 28, 2011

At this platform, Prof Sadagopan shared his views on IPv6 and its relevance to India. Ms. Yanick Pouffary, HP IPv6 Global Leader & HP Distinguished Technologist, discussed the common perspectives and transition mechanisms.

IMSAA 2011—Dec 12,2011

Mobility, convergence of networks, and proliferation of smart end-user equipments have sparked many new architectures enabling internet multimedia applications. However, "Any Information, Any Device, Any Location" networked systems still face significant technical challenges including issues related to performance, privacy, services, security, reliability, scalability, mobility, interoperability, and deployment.

IMSAA-11 was designated to tackle these challenges by bringing together researchers, engineers and practitioners from academia, service providers, industry and government working on Internet, multimedia services/application and systems. The conference included a peer reviewed program of technical sessions, workshops, tutorials, and demonstration sessions.

The Fifth International Conference on Internet Multimedia Systems Architecture and Applications (IMSAA-11) was jointly organized by COMSOC Bangalore Chapter, the Academia and Corporates. The Conference was held during December 12 - 13, 2011 at IIIT-B Campus

COMAD 2011—Dec 19 - 21, 2011

For close to two decades, the International Conference on Management of Data (COMAD), modelled along the lines of ACM SIGMOD, has been the premier international database conference hosted in India. The first COMAD was held in 1989, and it has been held on a nearly annual basis since then (except for a few breaks such as in the years when VLDB and ICDE were held in India). COMAD has always had a significant international participation, with about 30% of the papers being from outside India, including Europe, USA and East/South-East Asia.

HP Network University 2012—Jan 12, 2012

Hewlett-Packard, in partnership with International Institute of Information Technology, Bangalore (IIIT-B) conducted the HP Network University. The two day workshop was held on the 12th & 13th January, 2012 at IIIT-B. Based at the IIIT-B campus the university allowed IT Professionals to advance their IT knowledge in the delivery of next generation enterprise networks. The growth of networking technologies, new open standards and unified communications has increased the skill requirements of IT professionals.

Ramanujam Math IT Conference 2012— Jun 25,2012

The conference (cosponsored by the Indian Mathematical Society and IIIT-B), brought together leading researchers in elliptic functions, q-series, and partitions from India and throughout the world. Several leading researchers from India and abroad delivered lectures. Topics of interestincluded:

- Elliptic Functions
- Q-Series
- Partitions and Related Number Theory

Other Topics included

- Mathematical Quantum Mechanics
- Ramanujan at Elementary Levels
- History of Indian Mathematics

Parallel Track (Math and IT):

Mathematical education is key to the future of the Indian IT Industry today. This parallel track dealt with how the Math and IT communities can work together for mutual benefit.

MHRD Virtual Labs (Prof Prasanna)

The purpose of the project is to develop a remotely operated lab environment, where students can physically exercise concepts of robotics and electromagnetical systems. This lab can be used to conduct simple to complex experiments in a competitive environment. This kind of setup can also be used by an organization to test equipments or machines remotely. The essence of this laboratory is remotely controlled physical experiments. The lab will have variety of equipments which can be remotely started or stopped. To achieve this kind of remote access both hardware and software infrastructure support is required. The hardware infrastructure consisting of robots are controlled from remote location via Internet. And the software infrastructure must allow remote commanding of the robots with any of the already known programming languages or a specific language that would be developed for this environment. No student will physically be present in the lab, hence all measurements are taken remotely. A student undertaking these laboratory exercises diligently is expected to be able to understand, analyze, design and optimize various kinds of electromechanical systems - utilizing a combination of sensors, algorithms and actuators.

Sandesh: A Semantic Data Mesh over Indian Open Data

Sponsor: Department of Science and Technology, Government of India

In India, datasets and reports are published periodically by government agencies at district, state and national levels. However, there are no specific standards in which the data is published. Also, lot of data is published in the form of PDF documents, or as a part of reports, which makes it difficult to extract. Also, because there is no unique dictionary used describing the data, same words are used to describe different concepts or vice-versa, thereby creating a larger problem of semantic incompatibility. Connecting these dataset elements with each other is a challenge because of this semantic incompatibility between the datasets. Analysis of these datasets when done in segregation, may give only few biased insights depending on the dataset. We need to analyze these datasets together to get the real picture.

The purpose of Sandesh is to create a web-based portal which will enable users to explore and analyze the open data available in India. It aims to create an ontological structure that links the datasets together, thus attaching semantics to the datasets. It will use the Linked Data standards to publish the ontology for perusal of Semantic Web applications built on top of the portal. (Srinath Srinivasa)

Sorting Hat: Task Clustering for Efficient Automatic Hybrid Routing

Sponsor and Collaborator: EMC Technologies

This project aims at computing similarities between datasets that goes beyond lexical features into underlying semantics. Semantic similarity matching involves computing similarity measures based on a number of underlying factors like metaphorical similarity, intentional similarity, situational similarity, etc. (Srinath Srinivasa)

Three-dimensional visualization of LiDAR point cloud dataset

This project involves three-dimensional visualization of LiDAR point cloud dataset using feature extraction. The extracted features are used for further visualization, thus reducing the complexity of the dataset as well as retaining interesting features of the data. We are exploring linear as well as nonlinear dimensionality reduction techniques for feature extraction. (Jaya Sreevalsan Nair)

Visualization of coauthorship networks using similarity matrices

In this project, we are working on ways of visualizing large-scale small world networks, (specifically coauthorship networks here) using similarity matrices. The motivation behind this work is to combine techniques used in machine learning and visualization to analyze large networks. Additionally, we have used parallel sets-like visual metaphor to find interesting patterns in the networks.(Jaya Sreevalsan Nair)

- A study of solder based self assembled 3D microelectronic structures; by: Dr Madhav Rao; Jun 06,2012
- Towards better Evolutionary Multi-objective Optimization Algorithms; by : Dr Karthik Sindhya; Jun04,2012
- Coordinate interleaving for improving the performance of wireless MIMO systems; by : Dr K V Srinivas; Mar 21,2012
- Contemporary Communication Challenges and Some Solutions; by : Dr Bharat Doshi; Mar 21,2012
- Application of Auditory Masking for Robust Speaker Verification in Noisy Conditions; by : Dr Ashish Panda; Mar 14,2012
- Some Diophantine Equations in Number Theory; by : Dr Manisha Kulkarni; Mar 07,2012
- Modelling physical & biological phenomena -- some paradigms; by : Dr Balakrishnan Ashok; Feb 22,2012
- Simulation Based methods for Optimization; by : Dr Vivek Kumar Mishra; Feb 15,2012
- Legacy software understanding; by : Dr Philippe Dugerdil; Feb 10,2012
- Intuitive security policy configuration in mobile devices using context profiling; by : N Asokan; Feb 06,2012
- The Complex Human Brain Can We Prevent Aging & Dementia; by : Dr. Satish Chandra; Feb 01,2012
- Interference in Wireless Sensor Networks; by: Dr Anjulika Gupta; Feb 01,2012
- Excitement of research & Global Technology Outlook 2012; by : Dr C. Mohan; Jan 31,2012
- Fundamentals of ARM Architecture; by : Dr. Sadanand Gulwadi; Jan 30,2012
- Distributed Bioenergy Systems for Expanding Rural Electricity Access in Tumkur District, India: A Feasibility Assessment using GIS, Heuristics and Simulation Models; by : Dr. Deepak Paramashivan; Jan 25,2012
- Existence of solutions for Ambrosetti-Prodi type problem; by : Dr. Rasmita Kar; Jan 18,2012

- Structural complexity of networks a quantitative approach; by : Dr. Lavanya Sivakumar; Jan 11,2012
- Utility-Aware Privacy Preserving Distributed Data Mining with Worst Case Privacy Guarantee; by : Dr. Madhushri Banerjee; Jan 04,2012
- Static Path-Aware Analysis of Program Invariants; by : Dr.Murali Krishna Ramanathan; Nov 30,2011
- Worklife Balance; by : Dr. Vinaya Prabha Baligar; Nov 23,2011
- Model Slicing; by : Dr. Jayprakash T Lalchandani; Nov 16,2011
- A Common Value Approach to Pricing in Credit-Based Insurance; by : Dr. Shreemoy Mishra; Nov 09,2011
- Managerial excellence in next decade; by : Abhay Gupte; Sep 21,2011
- Technologies for Healthcare Delivery; by : Bill Thies; Sep 14,2011
- Internet-based collaborative platform for document management.; by : Richard Andersen; Sep 14,2011
- Designing Decision Support Systems To Help Avoid Biases And Make Robust Decisions; by : B Chandrasekaran; Sep 08,2011
- Saraswati, The River That Disappeared; by : Dr. K S Valdiya; Sep 07,2011
- Temperature Sensor for SOCs; by : Dr. Subhajit Sen; Sep 02,2011
- Cloud Computing : Dell Difference; by : T Kaliraj and Raghava Bagepalli; Aug 24,2011
- How to Way-find in a Network?; by : Dr. S R Sudarshan Iyengar; Aug 17,2011
- Liquid Crystal Displays: Passive Matrix Addressing Techniques and Electro-Optic Effects; by : Dr. K G Panikumar; Aug 10,2011
- Data Stream Computing: Platforms and Algorithms; by : Dr. Srikanta Tirthapura; Aug 09,2011
- Probe-Send Fault-tolerant Network-On-Chips (NoC) router; by : Dr. Sumit Mediratta; Aug 03,2011
- Robot Assisted Surgery; by : K Subrahmanian; Jul 28,2011
- Working Conference IT and ITES Industry; by : Prof. N Ravichandran; Jul 04,2011

MTECH Thesis 2013

ABHINAV PUNDIR (MT2011004) Title: Binary Semantic Classifier with Scarce Training Data Supervisor/s: Prof. GNS Prasanna

HARI MEDHA K (MT2011048) Title: Concept, Feasibility and Architecture for Remote Damage Diagnostics in Cars and its Application in Car Sharing Supervisor/s: Prof. Roland E Hass

KAMALDEEP KAUR (MT2011061) Title: Slicing Acme Models Supervisor/s: Prof. Jayprakash Lalchandani

MOHIT KUMAR (*MT2011079*) Title: load Balancing and Simultaneous Utilization of Multiple Network Interfaces in Wireless Local Area Networks Supervisor/s: Prof. Debabrata Das

NOOPUR SRIVASTAVA (MT2011095) Title: Monte Carlo Analysis of Indian and US Stock Market Supervisor/s: Prof. GNS Prasanna

P SHATA KIRTI REDDY (*MT2011096*) Title: Impact Analysis in Acme Models Supervisor/s: Prof. Jayprakash Lalchandani

PAYAL PRAKASH (*MT2011102*) Title: Cost-Aware Scheduling Using Differential Evolution for Electricity Consumers Connected to a Smart Grid Supervisor/s: Prof. Shrisha Rao

PRAGYA SINGH TOMAR (*MT2011105*) Title: An Efficient Channel Access Method Using Polling and Dynamic Priority Assignment Supervisor/s: Prof. Poonacha G

PRATHEEK KA (*MT2011110*) Title: A Simulator for Game of Magnetic Carom Supervisor/s: Prof. GNS Prasanna

RANA MANI PRATAP (MT2011121) Title: Singular Value Decomposition (SVD) vs Non-Negative Matrix Factorization (NMF)- A Comparative Study Supervisor/s: Prof. G. Srinivasaraghavan

RIJUTHA N (MT2011126) Title: Scheduling in the Presence of Uncertainity about Resource Availability Supervisor/s: Prof. GNS Prasanna

S VIDYASEKAR (MT2011131) Title: Randomization-Based Privacy-Preserving Association Rule Mining Supervisor/s: Prof. R.Chandrashekar

SAMYA BAGCHI (MT2011134) Title: Two Algorithms for Object Detection in Images, Based on Hierarchical Segmentation, Maximum Margin Correlation Filter and Support Vector Machines Supervisor/s: Prof. Poonacha G

SHAMBO BHATTACHARJEE (MT2011141) Title: Efficient Algorithm for Crossing Alert in Camera-Based Advanced Driver Assistance Systems Supervisor/s: Prof. Roland E Hass

SHREEPRIYA DOGRA (MT2011147) Title: Reliability Analysis Using Model Libraries Designed in SysML Supervisor/s: Prof. Shrisha Rao

SUBRAMANIAN N (MT2011156) Title: Manipulator Grip Control in Service Robotics Supervisor/s: Prof. Roland E Hass SUDEEP K H (MT2011157) Title: Software for design of four-bar electrical mechanism Supervisor/s: Prof. GNS Prasanna

MS Thesis 2013

Raghavendra Sunku (2007502) Title: Study on off-line and on-line charging of blended services in IP multimedia subsystem networks Supervisor/s: Prof. K V Dinesha - 2013

Allahbaksh Mohammedali Asadullah (2010501) Title: An investigation to two bin partition problem Supervisor/s: Prof. K V Dinesha - 2013

Srinivasa Gopal (2010505) Title: A study of software project management education and project effort estimation using students' project data Supervisor/s: Prof. Chandrashekar Ramanathan - 2013

Saima Parveen (MS2011012) Title: Visualization of transformation of graphs based on similarity functions Supervisor/s: Prof. Jaya Sreevalsan Nair - 2013

PhD Thesis 2013

Mandar Mutalik Desai (2005902) Title: Semantics extraction in information spaces using co-occurance analysis Supervisor/s: Prof. Srinath Srinivasa - 2013

Student Awards and Scholarships

13TH CONVOCATION (JULY 2013)

I.No.	Student Name	Award
1	Abhinav Pundir and Suchitra Madathil	Institute Gold Medal
2	Abhinav Pundir and Suchitra Madathil	Sir M Vishveswariah Scholarship award
3	Nisha Menon	Institute Medal for Contribution to IIIT-B Community Life
4	Rijutha N	Late N Ramrao Medal for Student of the Year
5	Jatin Chaudhary	Late N Ramrao Medal for All Rounder of the Year



Student Awards an Scholarships

DIRECTOR'S MERIT LIST

• MTech 2012-13, October 23, 2013.

RollNo	Name
MT2012056	Jayati Deshmukh
MT2012029	Avipsa Nayak
MT2012063	Kartikay Nagal
MT2012073	Lalwani Amarkumar Bhagwandas
MT2012114	Rangan Dutta
MT2012108	Raghav Bali
MT2012160	Venkata Sai Sriram Mahavadi
MT2012161	Vijay Huddar
MT2012117	Ritu Sharma
MT2012086	Navik Yogesh Laljibhai
MT2012120	Rupali Aneja

iMtech October 29, 2013.

RollNo	Name
IMT2012010	Chandan Yeshwanth



IMT2012007	Anusha P S
IMT2012046	Tanmayee Narendra
IMT2012004	Ananth Murthy

The Institute over the years has developed academic / research collaboration with several global universities & corporations. They include

Student Exchange Programmes

- University of Kaiserslautern (Germany)
- University of Malmo (Sweden)
- Hof University (Germany)
- Collaborative Research Project

European Union (Insight, India mentor, Ingenious)

- Intel USA
- UKIERI
- Lever Hume Trust,
- IMS Innovation Labs: Networking and Communication, HP France and India.

Research / EDUCATION

- Universidad Carlos III DE Madrid Spain
- QUT, Australia

Industry Partnerships

The following Labs were funded by the Industry over the years at IIIT-B

- Siemens Vision Lab
- Honeywell Automation Lab
- Intel Planet Lab
- Intel Community PC Lab
- HP IMS Lab

A number of companies and organizations have endowed scholarships to support students pursuing M Tech / MS / PhD programs at IIITB. The sponsoring agencies include

Infosys (5) ABB (3)

Outreach

Post Graduate Diploma in Software Development (PGDSD)

The PGDSD program is a 12-month, full-time, face-to-face training program in software development. On completion of the program, students get a "Post Graduate Diploma in Software Development" from IIIT-Bangalore.

The goal of the program is to prepare students for a successful career in the Indian IT industry. The program is committed to creating and disseminating knowledge to address the challenges facing India's IT industry. The program was based on the premise that to succeed in today's IT industry, a student needs more than theory; they need to be equipped to know how to relate to it. The program fuses conceptual foundations with hands-on, real-world learning to provide a unique recipe for success.



Incubation

The Incubation activities at IIITB are carried out through a Section 25 company named IIITB Innovation Centre which was incorporated on 30th March 2009. An incubation policy of the Institute encourages proposals from both within and outside of IIITB.

IIITB Innovation Centre also networks the entrepreneurs with consultants in the domains of flnance, strategy, marketing, legal compliance etc and also introduces them to angel investors and other investment avenues. IIITB Innovation centre arranges visits of leading consultants to meet with the entrepreneurs on one on one basis. In addition to this support, the Centre also provide seed funding support (not exceeding Rs 25 lakhs) as equity to one or two promising new ideas every year.

FACILITIES:

IIITB Innovation Centre provides incubation assistance to new ideas right from the seed stage. The support includes working space, internet connectivity, access to library, meeting rooms, cafeteria, and the opportunity to hire our post graduate students as interns, and part time employees. Besides the faculty are also available for consultation, guidance and advice.

ELIGIBILITY:

Anyone or a group of professionals with interesting ideas can approach us for incubation in the area of Information Technology. Though preference will be given to students, faculty and alumni if the Institute, others with interesting idea are encouraged to apply. Currently out of eleven enterprises being incubated, three ideas are from students and faculty, the rest eight are from outsiders.

HOW ARE IDEAS CHOSEN FOR INCUBATION:

IIITB Innovation Centre incubates ideas only in the area of information technology. It looks for novelty, non triviality and usefulness of the ideas. By novelty, we mean ideas which are not merely extensions of already existing ideas or businesses, ideas that are not merely finding a new market for an existing product/service. There must be some originality in the proposed idea.

By non triviality we mean that the proposed idea must be capable of resulting in commercialisable intellectual property. The new idea should not be so simple that anyone spending some time in thinking can come up with the same idea. In short, the idea must be able to create an entry barrier for competition.



By usefulness we mean that the idea should reach market and start earning revenue within two years. It should be found useful by a section of the society in India or abroad within this span. It may take longer to break even, but it should start earning revenue in this period.

ADDITIONAL CRITERIA:

In addition we also look for the possibility of our post graduate students to work as interns with the enterprise. The idea should be intellectually challenging to attract our students and faculty. The interaction between the institute community and the enterprise must also result in teaching material, bywayofcase studies etc.

SEED FUNDING:

The IIITB Innovation Centre provides to one or two enterprises in a year, a seed funding not exceeding Rs 25 lakhs. The IIITB IC provides this as equity and takes about 12% stake in the enterprise. If fund required are less, the stake taken will be pro rata reduced. The decision to invest is taken by an investment committee and require a business plan. The process may take about four months. In the last two years we have funded four enterprises. Currently preference is given to ideas which involve a new hardware/embedded system design.

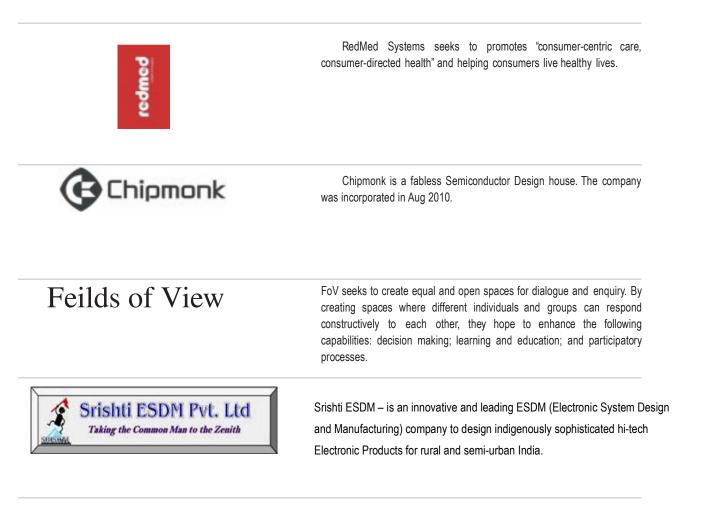
FINANCIAL CONDITIONS:

Incubation facility is provided for a period of two years that may be extended by a year. Our incubation facilities are based on open plan interiors and hence incubating companies share the room of about 25 work desks. The facilities may be used for 72 hours a week (from 9 a.m to 9 p.m for six days), but facilities manager need to be informed if it is to be used beyond 6p.m or after 9 p.m.

We charge Rs 5000 per month per desk. We may postpone collecting of this charges, for a period of six months in case the incubating enterprise is boot strapping and do not have resources to pay the charges in the initial stages.



Organizations and firms currently being incubated at IIITB Innovation Centre



38

Firms that were incubated at iiitb innovation centre

bitstat

Bitstat creates innovative software products for challenging opportunities in financial domain by leveraging latest advancement in computation, collaboration technologies & cutting edge software systems.



TutorVista aims at providing world-class tutoring and highquality content to students around the world. Tutor Vista.com is an online destination for affordable education



Backend Bangalore Pvt Ltd is the first incubated company of the International Institute of Information Technology, Bangalore. Since its inception in year 2000 the Company has been developing and releasing specialized software products for specific business verticals.



QSO Technologies specializes in R&D support, IT and Embedded Systems. The goal of global, virtual teams is a seamless integration into the client's main R&D teams and processes, offering services at the best possible price, allow the clients to cut down on overall development costs and to decrease time-to-market of their products dramatically



Learning Labs provides a comprehensive suite of Talent Assessment & benchmarking, Talent trans formation and employer branding solutions



Mapunity develops technology to tackle social problems and development challenges. Our GIS, MIS and mobile technologies are used mostly by government departments and civil society organisations, and in the R&D initiatives of commercial ventures.

CAMPUS & HOUSING

The Institute moved to its present Electronics City campus in 2003. The campus features well-maintained lush green lawns, musical fountains, and a small pond, creating an ideal learning environment to stimulate intellectual and personal growth.

Designed and built in compliance with the highest global standards, the teaching and learning infrastructure features the most advanced elements of contemporary academic tools. With over 80,000 square feet of air-conditioned space, uninterrupted power supply, and a wellcrafted interior, the Institute offers a world-class environment for students and faculty.

All the classrooms are "smart," with high-speed data networks and large projection systems for audio and video. The well designed main classroom comfortably seats in excess of 150 students. Video conferencing capabilities are built in using state of-the-art audiovisual equipment. They include electronic smart boards, location-sensing microphones, and multiple LCD projectors, thus enabling an enriching learning experience. Meals are available at the Food Court located in a separate building (the food that our students have is the same food that is also had by faculty and staff, and offered to visitors including distinguished dignitaries, thus ensuring quality). A separate small cafeteria is available for snacks during working hours.

Residential facilities are available for students in the form of separate boys' and girls' hostels, where students stay in individual rooms, have wired and wireless network connectivity for 24 hours a day, and also have access to

recreational facilities. The hostel accommodates 180 male students (single occupancy with shared bath) and 80 female students (single occupancy with shared bath); in addition there is accommodation for 48 students (double occupancy with attached bath) and four fully furnished suites for short term visiting faculty. There are also a small number of suites for visitors such as guest speakers.

COMPUTING RESOURCES

The infrastructure for IIIT-B's fully wired campus consists of a highspeed fiber-optic backbone connected to the internal network through a high-end gigabit Ethernet switch. Dedicated network equipment includes printers, scanners, and other equipment. Connectivity in the campus is established at two levels. First, the local intranet implements a "virtual classroom," where all the visual material, such as presentation slides used by professors in class, are made available electronically to students. All assignments and projects are announced and submitted online. The intranet also enables knowledge sharing among students. At the second level, 24*7 Internet access is available throughout campus, in both wired and wireless modes. IIIT-B is one of the few institutions in India to have an active wireless LAN (and was the first to have this technology). Wireless-mode access is available throughout campus using the 802.11b protocol. In addition, high-quality Ethernet ports are installed at various locations in the building, providing wired Internet access through a proxy web server. All students have a Wi-Fi enabled laptop for their exclusive use. This ensures a student to machine ratio of better than 1:1, implying complete accessibility. This in turn allows for an individual approach to learning, providing the freedom to learn at one's own pace and focus on one's chosen domain of specialization.



Recruitment Statistics class of 2012

41

INTERNSHI

•	8K Miles	(4)
•	Allgo Systems	(1)
•	CDC Software	(3)
•	Ebay	(4)
•	Fidelety	(4)
•	Goldman Sachs	(3)
•	GE Healthcare	(4)
•	Holistic Labs	(3)
•	HP	(3)
•	HSBC	(3)
•	IBM	(2)
•	Indus	(2)
•	Intel India	(12)
•	Intuit	(3)
•	Kenapps	(2)
•	Marketelligent	(2)
•	Nokia Research	(3)
•	SAP	(10)
•	Schneider Electric	(1)
•	Siemens Corporte Research and Technology	r (8)
•	Symphony Services Pvt. Ltd.	(2)

•	Thorogood	(4)
•	Tyfone	(4)

• Wipro Research (3)

Recruitment Statistics class of 2012

PLACEMEN

•	8K Miles	(3)
•	ABB	(4)
•	Activesphere	(1)
•	Alcatel Lucent	(4)
•	Algo Embedded	(1)
•	ARM	(1)
•	Attribo	(2)
•	BOSCH	(1)
•	Broadcom	(1)
•	CDC Software	(3)
•	CISCO	(11)
•	Deutche Bank	(1)
•	Deutche Bank Ebay	(1) (2)
•	Ebay	(2)
•	Ebay GE	(2) (1)
•	Ebay GE GE Healthcare	(2) (1) (1)
•	Ebay GE GE Healthcare Geodesic	(2) (1) (1) (1)
•	Ebay GE GE Healthcare Geodesic Goldman Sachs	 (2) (1) (1) (1) (3)
•	Ebay GE GE Healthcare Geodesic Goldman Sachs	 (2) (1) (1) (1) (3) (2)
•	Ebay GE GE Healthcare Geodesic Goldman Sachs HP HSBC	 (2) (1) (1) (1) (3) (2) (1)

•	Informatica	(2)

- Infosys (10)
- Intel (14)
- Intuit (3)
- IP Horizons (1)
- Marketelligent

(2)

- MBRDI (8)
- Motorola (3)
- QSO-TECH (3)
- Samsung (9)
- SAP (7)
- Siemens (2)
- Symphony Services (3)
- Synopsys (4)
- Thorogood (1)
- TLL (1)
- Tyfone (5)
- Virtual Labs (2)
- Ziva Software (1)
- Zomato (1)

Recruitment Statistics class of 2013

43

INTERNSHI • ABB (4) Allgo Embedded (1) • American Express (2) • Axiom DA (3) Broadcom (7) CDC Software (2) ٠ CISCO (11) • Commvault (1) • Deutsche Bank (3) • eBay (2) • EMC² (3) • Fiberlink (4) • FMR (4) • GE Aviation (2) • GE Energy (2) GE Healthcare (9) • HSBC (3) • IBM (12) • Indus Scientific (1) Informatica (2) • Infosys (4) ٠ Intuit (8) • IpInfusion (3) • Kuliza (1) • • Malmo (2)

•	Marketelligent	(1)
•	NetApp	(1)
•	Nokia Research	(1)
•	NUS	(1)
•	NVIDIA	(3)
•	NXP Semiconductor	(4)
•	Operative	(1)
•	QuickLogic	(1)
•	Robert Bosch	(4)
•	Samsung	(1)
•	SAP	(2)
•	Siemens	(8)
•	SocGen	(2)
•	SymphonySV	(6)
•	Synopsys	(3)
•	Tyfone	(1)
•	ZivaSoft	(2)

Recruitment Statistics class of 2013

PLACEMEN

•	Accolite	(2)
•	Alcatel-Lucent	(1)
•	Allgo Embedded	(2)
•	American Express	(1)
•	Axiom DA	(4)
•	Azul System	(2)
•	BitzerMobile	(1)
•	BorQs	(4)
•	Broadcom	(3)
•	CDC Software	(1)
•	CISCO	(21)
•	Citi	(7)
•	Commvault	(2)
•	CSR	(2)
•	CSTEP	(4)
•	Deutsche Bank	(1)
•	eBay	(1)
•	EMC ²	(3)
•	Fiberlink	(2)
•	GE Aviation	(3)
•	GE Healthcare	(1)
•	HP	(1)
•	HSBC	(2)
•	IBM	(10)
•	Informatica	(3)

•	Infosys	(7)
•	Intuit	(5)
•	lpInfusion	(2)
•	JDA Software	(2)
•	Justeat.in	(2)
•	Mavenir Systems	(1)
•	MBRDI	(7)
•	McAfee	(2)
•	MS-IDC	(1)
•	NetApp	(4)
•	Nokia R&D	(2)
•	Nokia Siemens Network	(1)
•	Qualcomm	(3)
•	Samsung	(5)
•	SAP	(2)
•	Siemens	(1)
•	SocGen	(1)
•	SymphonySV	(1)
•	TCS R&D	(2)
•	Thorogood	(6)
•	Tyfone	(1)
•	Zentron Labs	(1)

INTERNSHI

THE FINANCIAL PROFILE FOR THE FINANCIAL YEAR 2011-12 IS AS FOLLOWS:

INCOME	Rs IN LAKHS	EXPENDITURE	Rs IN LAKHS
Students Fee	52,798,100	Faculty /StaffExpenses	3,41,46,490
Entrance Exam	24,66,089	Student Expenses	35,28,005
Consultancy	26,27,594	Library	5,597,263
Income from Hostel & other Facilities	1,27,62,166	Operations & Maintenance	2,18,30,793
Interest on Fixed Deposits	1,49,06,246	Depreciation	1,95,54,638
		Excess of Expenditure over Income	(94,32,821)
Total	7,37,85,045	Total	7,37,85,045
Needs to be undated			

Needs to be updated

List of Students



PHD STUDENTS

PH2006503	Manju Nanda	PH2010901	Balakrishnan K
PH2006901	Aditya Ramana Rachakonda	PH2010902	Saptarshi Chaudhuri
PH2006902	Anjali K Mohan	PH2010903	Shweta Ghodeswar
PH2006904	Subramanian N	PH2010904	Sita Kondamadugula
PH2006905	Shanbhag Vivek Krishna	PH2010905	Subha PE
PH2007901	Ritesh Kumar K	PH2010901	Balakrishnan K
PH2008901	GVKSasirekha	PH2010902	Saptarshi Chaudhuri
PH2008902	Aparna Lalingkar	PH2010903	Shweta Ghodeswar
PH2008903	V Ranganathan	PH2010904	Sita Kondamadugula
PH2008905	Raghu A	PH2011001	Ganesh Perumal
PH2009901	Abhilasha Aswal	PH2011002	J Yogalakshmi
PH2009902	Sunil Kumar Vuppala	PH2009906	Vyshnavi Malathi Ramesh
PH2011003	Pragati Agrawal	PH2012005	Prashant K Wali
PH2011004	Rajanikanth N Kashi	PH2012006	r Rajikha
PH2011005	Sri Lakshmi Vadlamani	PH2012007	RAJEEV ARORA
PH2011006	V Anil Kumar	PH2012008	S A Chethan Danivas
PH2012001	Anushka Chandrababu	PH2012010	Shivakumar Venkataraman
PH2012002	Banerjee Shilpi Tushar	PH2013001	Asha Subramanian
PH2012003	Joy Prabhakaran P	PH2013002	GRACY JOSEPH
PH2013005	Deepti J Anand	PH2013003	Rahul Gowda BV
PH2013006	Balachandra K	PH2013004	Kumar D

PH2013007	Payal Prakash
PH2013008	Neha Oraon
PH2013009	Sumant Kulkarni
PH2013010	Dibakar Das

List of Students



MS BY RESEARCH

MS2010505	Srinivasa Gopal
MS2011001	AkanshaSingh
MS2010501	Allahbaksh Mohammedali Asadullah
MS2010504	Siddhartha Lal
MS2011002	Ambily P
MS2011004	Bivas Bhattacharya
MS2011005	Karthik V
MS2011006	V Krishna Sashank Dara
MS2011007	Leena N
MS2011008	M S Srinivasan
MS2011009	Priyankar Talukdar
MS2011011	RakshathaPK
MS2011012	Saima Parveen
MS2011013	Sumant Kulkarni
MS2012001	Agrawal Sweety Vinod
MS2012002	Ameneh Pourmoghadas Langroudi
MS2012005	JOG CHINMAY SANJEEV
MS2012008	SATYABRAT SRIKUMAR
MS2012009	Vivek Yadav
MS2013001	Aakanksha Bapna
MS2013002	Ambuj Mishra
MS2013003	Beena kumara
MS2013004	Putluru Sravani
MS2013005	Anshu Bhardwaj

MS2013006	B.Gowthami prasanna
MS2013007	Rajesh kumar R
MS2013008	Anoop Kumar Pandey
MS2013009	Khusbu Bubna
MS2013010	Nirmal kumar S
MS2013011	Prakruti
MS2013012	Parthiban A
MS2013013	Nadimpalli Pavan Kumar



M.TECH STUDENTS CLASS OF 2014

MT2012001	Aamir Shaad Alam	MT2012010	Ajitava Kundu
MT2012003	Abhilash CS Gowder	MT2012011	Alisha
MT2012004	Abhinav C Kanavi	MT2012012	Alka Luqman
MT2012005	Abhishek Bajpai	MT2012013	Alpna
MT2012006	Abhishek Varshney	MT2012014	AmarShekhar
MT2012007	Abinaya M	MT2012015	Amrita Pal



MT2012016Amrutha JayaramMT2012017Amulya KMT2012018Ananda Prakash VermaMT2012020Anjali Reddy VMT2012021Anne Rachel GothamMT2012022Anne Rachel GothamMT2012023Anshul SharmaMT2012024Anuj DuggalMT2012025Apoorve TomerMT2012026Appidi Soujanya ReddyMT2012027Ashwin Venkat B GMT2012028Astha GoyalMT2012029Avipsa NayakMT2012030Ayushi GoelMT2012031B Krishna ChaitanyaMT2012032Baurisetty DhirajMT2012033Bhuma SruthiMT2012034Bisen Vikrantsingh MohansinghMT2012035D Surya Pratap DesaiMT2012039DebarghaGangulyMT2012039DebarghaGangulyMT2012040Deepti ShuklaMT2012041Dibyajyoti BiswalMT2012042Dilip S		
MT2012018Ananda Prakash VermaMT2012020Anjali Reddy VMT2012022Anne Rachel GothamMT2012023Anshul SharmaMT2012024Anuj DuggalMT2012025Apoorve TomerMT2012026Appidi Soujanya ReddyMT2012027Ashwin Venkat B GMT2012028Astha GoyalMT2012029Avipsa NayakMT2012030Ayushi GoelMT2012031B Krishna ChaitanyaMT2012032Baurisetty DhirajMT2012034Bhavanam Ravindra ReddyMT2012035Bhuma SruthiMT2012036Bisen Vikrantsingh MohansinghMT2012037Brijesh VMT2012038D Surya Pratap DesaiMT2012039DebarghaGangulyMT2012040Deepti ShuklaMT2012041Dibyajyoti Biswal	MT2012016	Amrutha Jayaram
MT2012020Anjali Reddy VMT2012022Anne Rachel GothamMT2012023Anshul SharmaMT2012024Anuj DuggalMT2012025Apoorve TomerMT2012026Appidi Soujanya ReddyMT2012027Ashwin Venkat B GMT2012028Astha GoyalMT2012029Avipsa NayakMT2012030Ayushi GoelMT2012031B Krishna ChaitanyaMT2012032Baurisetty DhirajMT2012034Bhavanam Ravindra ReddyMT2012035Bhuma SruthiMT2012036Bisen Vikrantsingh MohansinghMT2012037Brijesh VMT2012038D Surya Pratap DesaiMT2012039DebarghaGangulyMT2012040Deepti ShuklaMT2012041Dibyajyoti Biswal	MT2012017	Amulya K
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MT2012032Baurisetty DhirajMT2012034Bhavanam Ravindra ReddyMT2012035Bhuma SruthiMT2012036Bisen Vikrantsingh MohansinghMT2012037Brijesh VMT2012038D Surya Pratap DesaiMT2012039Debargha GangulyMT2012040Deepti ShuklaMT2012041Dibyajyoti Biswal	MT2012030	Ayushi Goel
MT2012034Bhavanam Ravindra ReddyMT2012035Bhuma SruthiMT2012036Bisen Vikrantsingh MohansinghMT2012037Brijesh VMT2012038D Surya Pratap DesaiMT2012039Debargha GangulyMT2012040Deepti ShuklaMT2012041Dibyajyoti Biswal	MT2012031	B Krishna Chaitanya
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MT2012038D Surya Pratap DesaiMT2012039Debargha GangulyMT2012040Deepti ShuklaMT2012041Dibyajyoti Biswal	MT2012036	Bisen Vikrantsingh Mohansingh
MT2012039Debargha GangulyMT2012040Deepti ShuklaMT2012041Dibyajyoti Biswal	MT2012037	Brijesh V
MT2012040 Deepti Shukla MT2012041 Dibyajyoti Biswal	MT2012038	D Surya Pratap Desai
MT2012041 Dibyajyoti Biswal	MT2012039	DebarghaGanguly
	MT2012040	Deepti Shukla
MT2012042 Dilip S	MT2012041	Dibyajyoti Biswal
	MT2012042	Dilip S

MT2012043	Dipanjan Sarkar
MT2012044	Diptarka Gupta
MT2012046	GaurangiAnand
MT2012047	Gorthy Ravi Kiran
MT2012048	Gorty Sreeraag
MT2012049	Gowri LN
MT2012050	Haripriya V
MT2012051	Hidangmayum Diana Devi
MT2012052	Himanshu Shrivastava
MT2012054	Jalla Karthik Varma
MT2012055	Jatin Goyal
MT2012056	Jayati Deshmukh
MT2012057	Jyotiska Nath Khasnabish
MT2012058	K Sri Sayi Bhavani
MT2012059	K Surya Tejaswini
MT2012060	Kakkireni Ranadheer
MT2012061	KaluvaSireesha
MT2012062	Karthik CH
MT2012063	Kartikay Nagal
MT2012064	Kausal Malladi
MT2012065	Kilambi Bhavana
MT2012066	Kodamasimham Pridhvi
MT2012067	Krishna Prem
MT2012068	Kriti Chawla

MT2012069	Kumari Suhani
MT2012070	Kurada Sravya
MT2012071	KurdagiSandeep
MT2012072	Lakshya Sivaramakrishnan
MT2012073	Lalwani Amarkumar Bhagwandas
MT2012074	Laxmi Agrawal
MT2012075	Madhulika Pandey
MT2012076	Mallika N
MT2012077	Manali Patnaik
MT2012078	Manzoor Ilahi Hunagund
MT2012079	Megha R Shedligeri
MT2012080	Mehak Dhiman
MT2012081	Mitali Sodhi
MT2012082	MridulAgarwal
MT2012083	N Puneeth
MT2012084	Nagashree DA
MT2012085	Namita Bist
MT2012086	Navik Yogesh Laljibhai
MT2012087	Neeldhwaj Kumar Pathak
MT2012088	Neha Gupta
MT2012089	Neha Kishnani
MT2012090	Nivedita Singh
MT2012091	Pakalapati Srinivas Raju
MT2012093	Patel Vinitkumar Bharatkumar

MT2012094	Pavan Kumar Y
MT2012095	Piyush Lashkari
MT2012096	Poulami Debnath
MT2012097	Pradeep Aluru
MT2012098	Pradeep K R
MT2012099	Pradyot H Adavi
MT2012100	Pratibind Kumar Jha
MT2012101	Pratik Mankawde
MT2012102	PreethyVarma
MT2012103	PriyaArora
MT2012104	Priyadharshini V
MT2012105	PriyasmitaGhosh
MT2012106	Purohit Amruta Hemant
MT2012107	PushpendraSinha
MT2012108	Raghav Bali
MT2012109	Rahul AR
MT2012111	Rahul Singh Dhek
MT2012113	Rajeev B
MT2012114	Rangan Dutta
MT2012115	Rinitha Raj K
MT2012116	Rishu Goel
MT2012117	Ritu Sharma
MT2012118	Ruchi Juneja
MT2012119	RuchikaSharma

MT2012120	Rupali Aneja
MT2012121	Rupesh Kumar Sahu
MT2012122	Sai Naga Sravani Peraka
MT2012123	Sana Javed
MT2012124	Sandeep K
MT2012125	Santwana Sarangi
MT2012126	Sarabjeet Singh
MT2012128	Sarthak M G
MT2012129	Satya Deepthi Bhagi
MT2012130	Shalini Govil
MT2012131	Shalini Tawari
MT2012132	Shayan NS
MT2012133	Shravankumar S Malagihal
MT2012134	Sindhu Priyadarshini
MT2012135	Sneha V Deshpande
MT2012136	Sri Harsha Nooli
MT2012137	Sri Sushma K
MT2012138	Sridhar J
MT2012139	Srivatsan S
MT2012140	Sruti Davis
MT2012141	Sucheta Chatterjee
MT2012142	Suhasdev MD
MT2012143	Sujata S Mehta
MT2012144	Sumit Sharma
MT2012145	Sunkavilli Ravi Chaitanya

MT2	012146	SurabhiPandey
MT2	012147	Sushanth Bhat
MT2	012148	Suvadra Tripathy
MT2	012150	Talluri Udaykumar
MT2	012151	Tammana Lakshmi Prasanthi
MT2	012152	Tushar G Thomas
MT2	012153	Tushar Sharma
MT2	012155	Vaibhav Singh Rajput
MT2	012156	Vakrani Prashanth Kumar
MT2	012157	Vamsi Krishna Srungarapu
MT2	012158	Varsha Raveendran
MT2	012159	VeenaPilli
MT2	012160	Venkata Sai Sriram Mahavadi
MT2	012161	Vijay Huddar
MT2	012162	Vikas Verma
MT2	012163	Vinay Gangadhar Hegde
MT2	012164	Vishnu Priya K P
MT2	012165	Vivek Sethi
MT2	012166	Vrinda Yadav
MT2	012167	VyavhareAshviniRamdas
MT2	012168	Yamini M
MT2	012169	Yammanur Anusha
MT2	012170	Yata Preethi
MT2	012171	Yellapantula Sahitya Sindhu

MT2013001	Abhijit Bagchi
MT2013002	Abhijith
MT2013003	Abhishek Bhol
MT2013004	Ajay Tiwari
MT2013005	Allada Dhanunjaya Prasad
MT2013006	Allu Pramod Reddy
MT2013008	Amit Tomar
MT2013009	Amrutha M
MT2013010	Ananth Krishna Hegde
MT2013011	Ankesh Kumar Sengar
MT2013012	Ankesh Sharma
MT2013013	Ankit Gumber
MT2013014	Ankit Narang
MT2013015	Ankit Sharma
MT2013016	Ankita Sharma
MT2013017	Ankur Ashok Rathi
MT2013019	Ankur Kumar
MT2013020	Annu Singh
MT2013021	Anshul Karasi
MT2013022	Anumula Kavya Sree
MT2013024	Anusha Modwal
MT2013025	Apoorwa Mishra
MT2013026	Arjun S Bharadwaj
MT2013028	Ashish Garg
MT2013029	Ashish Kumar Gupta

MT2013030	Ashutosh Trivedi
MT2013031	Ashutosh Vyas
MT2013034	Bakori Niravkumar Govindbhai
MT2013035	Balmukund Agrawal
MT2013036	Bhardwaj Ramkumar
MT2013037	Bhuvanesh Kumar Srivastava
MT2013038	Brij Mohan
MT2013039	C Sai Bhaskar Krishna
MT2013040	Charan Shetty
MT2013041	Chavan Laxmikant Abasaheb
MT2013042	Chavvakula Rose Rani
MT2013043	Chillal Kashinath Basanna
MT2013044	Dawalatabad Mohd Nauman Abdul Razzak
MT2013045	Deepthi M
MT2013046	Devesh Singh Rawat
MT2013047	Dipesh Joshi
MT2013048	Divya Maharshi
MT2013049	Divya Rawat
MT2013050	Duggineni V Krishna Chaitanya
MT2013052	Garisa Venkata Sowmya
MT2013053	Gaurav Chugh
MT2013059	Jain Manish Balchand
MT2013061	Joshi Dnyanesh Madhav
MT2013062	Joydeep

MT2013063	Kanchan
MT2013064	Kanduluru Kishore
MT2013065	Kaushik Ranjan
MT2013066	Khamar Bhargav Harishkumar
MT2013068	Koduru Sindhuja
MT2013069	Komal Gupta
MT2013070	Koppisetti Rakesh Kumar
MT2013072	Kumudini Kakwani
MT2013074	Lahankar Pushkaraj Jayant
MT2013075	Mayur Patidar
MT2013076	Michael Peter
MT2013077	Midthur Ayesha Siddiqa
MT2013078	Mitesh Gupta
MT2013079	Mitta Hari Krishna
MT2013080	Mohnish Bhatt
MT2013081	Monika Sharma
MT2013082	Muhammed Hunaif P
MT2013083	N. L. Prathyusha
MT2013084	Nallu Naveen
MT2013085	Nandyala Ravi Kishore
MT2013110	Prakash Vijay Kharche
MT2013111	Prashant Jhaba
MT2013112	Prashant Prabhakar Nagansure
MT2013113	Prashant Ruwali
MT2013114	Prasun P

MT2013087	Naveen Pai
MT2013089	Neetika Panwar
MT2013090	Nikhil Agrawal
MT2013091	Nikita
MT2013092	Nisha Basia
MT2013093	Nitesh Konkar
MT2013095	P Saipriya
MT2013096	Pankaj Kumar Agrawal
MT2013097	Paras Mittal
MT2013098	Parul Gupta
MT2013099	Parush Agarwal
MT2013100	Paspulati Leelaram
MT2013101	Patil Sanjivani Rajiv
MT2013102	Patil Vivek Madhavrao
MT2013103	Patwari Abhijeet Bapurao
MT2013104	Pavithra
MT2013105	Pawan Kumar Rajpoot
MT2013106	Pereira Hammond Alphonse
MT2013107	Pillalamarri B V Ramana
MT2013108	Piyush Kaushik
MT2013115	Priyamvadha
MT2013116	Priyanka Shukla
MT2013118	R Prashanthkumar Reddy
MT2013119	Rahul R

MT2013120	Rajaram Rahul Ramchandra	I
MT2013121	Rajat Bansal	١
MT2013122	Rakesh Rajpurohit	١
MT2013125	Robin Sharma	I
MT2013126	Ruchita Jain	I
MT2013127	S Anvith	I
MT2013128	Sadariya Ankit Pravinbhai	١
MT2013129	Sagar Sanjay Sabale	١
MT2013132	Sandipan Saha	I
MT2013134	Sanju Haragapure	I
MT2013135	Saraiya Chirag Manoj	١
MT2013137	Satya Prakash	I
MT2013138	Saumya Tayal	I
MT2013140	Shah Ankitkumar	I
MT2013141	Shah Nikita Rajan	I
MT2013142	Shefali Singla	I
MT2013143	Shivam Agarwal	I
MT2013144	Shivam Upadhyay	I

MT2013146	Shreyas N
MT2013147	Shrimant Chakrabarti
MT2013148	Shubham Karodiya
MT2013150	Siddhesh Dosi
MT2013151	Soumit Das
MT2013152	Srinivas R Vaidya
MT2013153	Subin Thomas
MT2013154	Sumit Kumar Dutta
MT2013155	Sumit Singh Chauhan
MT2013156	Sunkari Raja Shekhar Reddy
MT2013157	Surabhi Taluja
MT2013160	Thangella Venkat Reddy
MT2013161	Tuli Kundu
MT2013162	Uday Bhan Singh
MT2013165	Varun Singh
MT2013166	Venkatesh Vishwarup
MT2013167	Venu Gopal Peddi
MT2013168	Vishesh Jain
MT2013169	Yash Thadani
MT2013170	Zadbuke Apurva Jagdish

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ACADEMICS / RESEARCHERS

- Dr. Geleyn R Meijer, Dean, Hogeschool van Amsterdam, Prof. Dr. PMA Sloot, Professor of Computational Sciences & Anouk Tso MA, Sr. Policy Adviser, International Relations, University of Amsterdam; Mar 28,2012
- Dr. Jaideep Prabhu. Director, University of Cambridge, Judge Business School, UK, Peter Jadersten, Special Advisor to the Director, University of Cambridge, Judge Business School, UK & Raj Ganesh; Mar 26,2012
- José Araujo, Chairman of the North Region. Joaquín Guerra, Chairman of the Chihuahua Campus of the ITESM; Mar 13,2012
- Ing. Alberto Araujo Saavedra, Director General & Ing. Joaquin Guerrachem, Director General, Campus Chihuahua, Mexican University; Mar 13,2012
- Dr Yukihide HAYASHI, Principal Fellow, Centre for Research & Development Strategy Japan Science & Technology Agency
 & Dr Phil. Fujio Niwa, Visiting Professor of National Grauate Institute for Policy Studies, Japan; Mar 12, 2012
- Dr. Ing.Dietmar P. F. Moller Chair: Computer Engineering AB TIS, Dept of Computer Science University of Hamburg; Feb 29,2012
- Dr. Rafael Prikladnicki Head of the Technology Management -AGT Associate Professor, Post Graduate Program in Computer Science Catholic University of Rio Grande do Sul - PUCR; Feb 24,2012
- Dr. Roger Brindley, Associate Vice President, Global Academic Programs, USF World & Dr. Aruna Das Gupta, Director, USF In India, University of South Florida; Feb 13,2012
- Dr Philippe Dugerdil, MBA Professor of software engineering Head of research Geneva school of Business Administration Univ. of Applied Sciences of Western Switzerland; Feb 10,2012
- Dr. Christiane Michel Hanlon, Director of International and Language studies and Amritha Chandramouli, Indian Relations Manager of EFREI; Feb 08,2012
- Prof. Dr. Ing. Helmut Dispert, International Coordinator, Computer Science & Electrical Engineering & Prof. Dr. Jens Lussem, KIEL University; Feb 08, 2012

- Dr. Veronique Lapaige Associate Professor, Psychiatry, University of Montreal and a researcher at the Fernand-Seguin Research Centre (Mental Health Institute of the University of Montreal); Feb 01,2012
- Dr. Garud Iyengar, Professor, Industrial Engineering and Operations Research Columbia University; Jan 02,2012
- Prof. Nils G Indahl Associate Professor of Journalism, Norwegian School of Creative Studies; Dec 08,2011
- Dr. Reinhard Doleschal, Head of Business School OWL, University of Applied Sciences, Germany; Nov 16,2011
- Dr. A.E.M (Astrid) Zuurbier, Senior Policy Officer, Netherlands Organization for Scientific Research,; Nov 15,2011
- Dr. Nisar Hundewale, Ph.D Associate Dean, Development & Accrediation College of Computers
 & Info Tech Ministry of Higher Education, Kingdom of Saudi Arabia Taif University; Jul 18,2011

GOVERNMENT

- Rear Admiral KB Mehta, Principal, Indian Naval Academy; Mar 28,2012
- G S Bothyal, IAS Joint Secretary Ministry of HRD & Commissioner, NVS; Feb 10, 2012
- A delegation of the Government of Indonesia lead by Son Kuswadi, Education Attache of the Embassy of the Republic of Indonesia to India ; Jan 12,2012
- H E Lt. Gen. Andi M. Ghalib, Ambassador of the Republic of Indonesia to India; Jul 27,2011

INDUSTRY

- Nick Howe,Vice President, HDS Academy, Hitachi Data Systems Corporation; May 10,2012
- Uma Reddy, President & Mohan Das, General Secretary, CLIK India; May 07,2012
- Srini Rajam Chairman and CEO, Ittiam Systems
- Dr. S R Jindal, Chairman & Managing Director, Jindal Aluminium Ltd; Apr 13,2012
- Helen Sohn, Director of POC, Microsoft IT John Williams, General Manager of HR for MS IT, MS Operations, and SMSG Finance, Mary Jo Krutak, Sr. HR Manager, Microsoft IT, Raj Biyani, Managing Director, Microsoft IT (India), Sakun Ganason, HR Business Manager for John Williams, Salil Dave, Senior Director, Microsoft IT, Sameer Nagi, HR Manager, Microsoft IT (India), Santhosh Madiraju, Group HR Manager, Microsoft IT (India), Tim DiMarco, Sr. HR Manager, Microsoft; Apr 03,2012
- Kalpana, Director, WebSphere Adapters and AIM Development, India, IBM, Niranjan Tirumale, EMC & Prof. Tridb Roy Chowdhury; Mar 30,2012
- Manish Bali, Sales Director (PSG) Asia South & Ananda Sekhar Bhattacharjee, Chief Solution Architect – HPC, Asia South - NVIDIA Graphics Pvt Ltd; Mar 15,2012
- Dr. Kajoli Krishnan, GE Global Research; Mar 15, 2012
- Rukmani Attri, Asst. Director, Income Tax (Exemptions); Mar 14,2012
- K R Raghunath, Chairman, Dr. S R Jindal, CMD & B D Garg, Executive Director, Jindal Alumnium Ltd; Mar 10,2012
- Sudeepth P; Berglund Håkan; Svensson Magnus Senior managers from Volvo; Feb 21,2012
- Magnus Svensson, Research Engineer, Hakan Berglund, Manager Embedded Software and Sudeepth Puthumana VOLVO Technology Corporation; Feb 21,2012

- N Asokan, Distinguished Researcher, Nokia Research, Helsinki; Feb 06,2012
- Dr. Michael Kiessle, Chief Innovation Officer, Globalization Services, SAP AG, Germany; Feb 02,2012
- Yogesh Kochhar, Director Strategic Engagement, Microsoft Corporation(I) P Ltd; Feb 02,2012
- K A Sadhana, Curator, (Electronics) Visvesvaraya Industrial & Technological Museum; Jan 31,2012
- Dr C Mohan, IBM Fellow and Former IBM India Chief Scientist, IBM Research; Jan 31,2012
- Deepankar Bhattacharyya, Sr. Manager, India Education Programs; Jim Quanci, Director of E D N Worldwide (based in San Rafael, CA) and Arvind Thangli, Manager India. Autodesk India Private Limited; Jan 23,2012
- Kaushal Veluri, Director Channels & Alliances, Citrix Systems India Pvt. Ltd; Jan 19,2012
- John Blomquist, Lead Social Protection Specialist and Mr. Changqing Sun, Economist from the World Bank, New Delhi office; Dec 14,2011
- Dr. Bernd Hohler, Managing Director & Christian Koch, Head of IT Applications, bhn Dienstleistungs GmbH & Co, KG; Nov 16,2011
- K Christoph Ranze, CEO, encoway GmbH; Nov 16,2011
- Brigette F Daniel, awardees of Eisenhower Fellowship 2011, Executive Vice President, Wilco Electronic Systems, Inc., Philadelphia, USA; Nov 10, 2011
- M R Krishnan VP & N. Muralidaran CEO NSE Infotech Services; Nov 04,2011
- Avaneesh Dubey, Sr.VP, On-Premise Suite Test Centre, SAP Labs India Pvt. Ltd; Oct 10,2011
- Dr. Gerry Petratos , Hiteks Inc; Oct 03,2011
- Ken Vander Wal, CISA CPA, ISACA International President; Sep 08,2011

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•Rohit Mahajan, Managing Director & Kaushik Bellani,

- CEO,SavinanceTechnologies;Sep07,2011 Shyam Kedare, Founder & CTO move 2 voice; Sep 02,2011
- Stuart Jack, Coordinator, International Cyber Conference, Foreign & Commonwealth office & Simon Sharpe, Second Secretary (Political) Foreign

& Security Policy Team, British High commission New Delhi; Sep 02,2011

- Vivek Kulkarni, IAS (Retd), Managing Director, Brickworks; Aug 09,2011
- U V Ramana, Associate VP. Planning & Assurance, FINACLE, Infosys; Aug 08,2011
- Dr. Jabez Dhinagaran, Vice President, Advanced Engineering Group, TVSM; Aug 04, 2011
- Christian Schwarzkopf Managing director, Center f
 ür Innovation & Entrepreneurship (CIE), Karlsruhe Institut fur Technologie (KIT); Aug 01,2011
- Saqib Sheokh, Director, Payments Markets Asia Pacific & Arun Tiwari, Head of Indian Sub-continent, SWIFT; Jul 19,2011
- Vish Narayan, IBM Distinguished Engineer, CTO Industry Solutions Arch, Software Group, IBM; Jul 19,2011
- Tejas Lagad, Nexus PortWise; Jul 19,2011
- Dr. P Gopalakrishnan, Ph.D Vice President India Software Lab IBM India Pvt Ltd; Jul 18,2011

Suraj Mukundarajan Global Head of Embedded SW
Development Micro Controller Business Line Infineon
Technologies India Pvt Ltd; Jul 12,2011

• Marelle van Beerschoten, Co-Founder Lex Beijer, Co-Founder Mr. Marco Wijnakker, Co-Founder Applified BV; Jul 04,2011

• Ms. Beena, Sr. Portfolio and Product Manager, Cisco Services (May 3, 2013).

- Mr. Giri Rangan, Senior Managers, IBM (May 3, 2013).
- Dr. Radha Shelat, President/CEO and Amit Gupta Nevis Networks (May 3, 2013).

- Mr. Shanker Annaswamy, Ex IBM India, Managing Director (May 9, 2013)
- Rahul Narayan, CEO and founding members of TeamIndus (May 9, 2013)

 Rajesh Ram Mishra, Vice President Emerging Technology Solutions & Head, ARISE Labs, Chief Technologist Office, Wipro Technology (May 9, 2013)

• Raja Bahadur, Independent Industry Analyst and Automation Consultant (May 9, 2013)

- Dr. Aloknath De, CTO, Samsung (May 15, 2013)
- Mr Kiran Gopalakrishna, Mr Ravindra Narasimhamurthy and Mr Sumit Rishi from Honeywell R & D (May 28, 2013)
- Lakshminarayana Rao, CTO, HP (May 31, 2013)
- Mr. Sridhar Namachivayan Director Channels and Strategic Alliances on June 10, 2013
- Mr. Rahul Naryana, Team Indus visits on June 11, 2013
- Sanjay Deshpande, Program Director, Talent Development, India Software Lab, IBM Software visited IIITB on June 5, 2013
- Gopal Krishnan Founder, CEO, Chairman Ninestars visited on July 6, 2013
- Sanjay V P, CEO & Co-Founder, InKnowTech Pvt Ltd visited on July 26,2013
- Samir Venugopal and Arun Rajamani, GM, Microsoft Public Sector Sales Head visited on August 5th, 2013
- Vijay Ballapuram, Associate Vice President Internal Information Systems, Hinduja Global Solutions visited on August 5th , 2013
- Dr. Prasad Ram, Founder, Ednovo & Anand Talwai,, Co-Founder& Executive Director, NextWealth Entrepreneurs visited on August 8th, 2013
- Haragopal M, Global Head, Finacle, Infosys Ltd visited on August 13, 2013



Advisorto UNISEF & Prof. Srinath Reddy, PresidentPublic HealthFoundation of India, Delhi, Dr. SureshShapeti visited on August 13, 2013

- Pawan Kumar- vMoksha visited on August 14, 2013
- Dr. Pamela Kumar, IBM on September 4 ,2013
- Damian Thompson Global Coordinator The Conversation, Melbourne, Australia visited IIIT-B on October 1, 2013.
- Mr. Sanjay Agarwal, HP visits IIIT-B on October 30, 2013.
- Pitchaiah, Director, Finance, BEML visited IIITB on October 30, 2013.

MEDIA

- Umberto Torelli from Correire Della Sera, Italy; Apr 06,2011
- Dennis Gastmann & Matthias Sdun, freeeye.tv, Germany; Jan 10,2011

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Prof S S Prabhu	Advisor to Director
A N Ramachandra	Registrar
Prof Srinath R Naidu	PhD, MS Course Co-ordinator
Prof V N Muralidhara	MTech Course Co-ordinator
Prof R Chandrashekar	iMTech Course Co-ordinator
Prof Meenakshi D'Souza	Placement Co-ordinator
Prof Jyotsna Bapat	Professor-in-charge Scholarship
Prof Debabrata Das	Professor-in-charge Computing
Prof Balaji Parthasarathy	Professor-in-charge Library
Prof R Chandrashekar	Professor-in-charge Web Resources
Prof S Rajagopalan	Professor-in-charge Institutional Finance
Prof Neelam Sinha	Professor-in-charge Foreign Students
Prof L T JayPrakash	Resident Warden
Prof Neelam Sinha	Lady Warden
Chandrika D	Finance Officer
Dorai Murugan	Manager (Technical)
Ramadevi	Librarian

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