



International
Institute of Information
Technology Bangalore

Newsletter | May - June 2017



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From the Director's Desk



IIIT-Bangalore faculty members were busy recruiting future students and arranging placements for graduating students throughout the months of May and June. Admission lists were announced for M.Tech. and iM Tech (Integrated M.Tech.) students based on GATE & JEE Score. We called a press meet on June 30 to announce about our 17th Convocation on July 2. Our 17th Convocation is a special one, which will be covered in the July edition of the newsletter.

The season of graduation ceremonies had started for us with that of the first batch of CCSER program in May.

Meanwhile elsewhere in technology, the race to building a quantum computer intensifies. Earlier in March, Google laid out its plan for building a 49-qubit computer by the end of the year. In May, IBM announced its construction of their 17-bit qubit prototype that will part of the IBM Q systems. These are exciting times in the technology world.

You will find more details of Institute news in the section below.

HAPPY READING!

Achievements

The IIIT-Bangalore team comprising Aditya Paliwal (IMT2013004), Shyam Komini Babu (IMT2014050) and Simran Dokania (IMT2013044) participated in the **41st edition of the ACM International Collegiate Programming Contest (ICPC)** World Finals held at Rapid City, South Dakota, USA, on May 24. 17000 teams (more than 50000 students) participated in the contest. Among them, only 128 teams made it to ACM ICPC World Finals. IIIT-Bangalore is one among 8 teams selected from India, and one among 128 teams from more than 100 countries. The team was mentored by Prof. V. N. Muralidhara.

More details: <https://icpc.baylor.edu/scoreboard/>

Congratulations to the team!

Dipanjan Sarkar (MT2012043), Raghav Bali (MT2012108), and Tushar Sharma (MT2012153) have written a book titled "**Learning Social Media Analytics with R**," which has been published by Packt - Birmingham, UK. The description of the book says that the readers can learn the use of R for exploring data and gaining insights to the knowledge. This book provides detailed strategies, workflows and hands-on approaches to explore data on social media platforms and showcase the power of leveraging analytics to get insightful information.

The paper titled "[A Novel Location and Neighborhood Adaptive Method for Binary Image Interpolation](#)" by Joy Prabhakaran (PH2012003) and Prof. P. G. Poonacha, won the best paper award at the 2nd International Conference on Advances in Signal, Image and Video Processing, held in Barcelona, Spain during May 21 - 25, 2017.

Campus News



Events

AICTE e-Governance Project meeting was held on May 8.

IIIT Dharwad Selection committee meeting was held during May 8-10.

Strategy brainstorming session for faculty members was held on May 10.



The **graduation ceremony for the first batch of the cyber security essentials ITSEC program** was held at the Institute on May 20. The Chief Guest was Mr. A Krishnakumar, Director, Andhra Bank, ex-MD, State Bank of India. Attendees included Prof. S. Sadagopan, Director, IIIT-Bangalore, Prof. Tricha Anjali, CCSER coordinator, IIIT-Bangalore, Mr. Mohan Ram and Mr. Rahul Mishra, FISST, and the students.



57th Senate meeting of IIIT-Bangalore was held on June 21.

The **third International Yoga Day** was celebrated at IIIT-Bangalore on June 21. The celebration started with lighting of the lamp after which we formally welcomed the guests of the day Ms. Bhagya Sree (Yoga Practitioner), Ms. Deepthi Priya N. S. (Trainer Heartfulness) and Mr. Sriram Munagala (Coordinator Heartfulness). Deepthi spoke on the Introduction to Meditation along with relaxation and practical experience of Heartfulness Meditation. Bhagya Sree explained the importance of yoga in daily life. This was followed by a demonstration of Yoga Asanas by Bhagya Sree, who also spoke of the benefits of the various Asanas. Students, faculty and staff members participated in the yoga session. The programme was concluded with a formal vote of thanks by Prof. Chandrashekar Ramanathan, the Dean-Academics.

For Photos: <https://qoo.ql/photos/vmzciKsiE93hhP3r5>



A press meet on the 17th Convocation was held on June 30 at Taj West End, Bangalore. The 17th Convocation, held on July 2, included graduation of first batches of multiple programs at IIIT-Bangalore, namely, the iM Tech (Integrated M.Tech. In IT), Sponsored M.Tech. (SMTech), and M.Sc. In Digital Society. First two batches of SMTech graduated together on July 2. Ms. Vidhya Y. (DT2015009), who is visually impaired and graduated from the M.Sc. In Digital Society programme, is a special student of IIIT-Bangalore. In addition to her other achievements, she graduated with the highest CGPA in the first batch of M.Sc. Digital Society programme. The other students who joined the press meet, included the winners of the medals distributed at the Convocation, namely, Mr. Yashvanth Kondi (IMT2012053), and Ms. Anusha P. S (IMT2012007), and another from the graduating batch of M.Sc. in Digital Society, Ms. Priyanka Ivatury (DT2015006). Prof. S. Sadagopan (Director) Prof. R. Chandrashekar (Dean-Academics), Prof. Madhav Rao (Coordinator- iM Tech), Prof. Amit Prakash (Coordinator-M.Sc. Digital Society), Commodore SR Sridhar (Retd) (Registrar), Mr. D.V.Jagadish (CEO-Outreach) and Mr. Pitchaiah (Adviser-Finance) also represented the Institute at the press meet.



Publication Including Presentations

Joy Prabhakaran (PH2012003) presented his paper titled "**A Novel Location and Neighborhood Adaptive Method for Binary Image Interpolation**", co-authored with Prof. P. G. Poonacha, at the 2nd International Conference on Advances in Signal, Image and Video Processing, held in Barcelona, Spain during May 21 - 25, 2017. This work won the Best Paper Award. Details of the award are at:

<https://www.iaia.org/conferences2017/AwardsSIGNAL17.html>

The conference proceedings are available at ThinkMind Digital Library

<http://www.thinkmind.org/index.php?view=event&event=SIGNAL>

Balaji Parthasarathy presented a paper titled "**Collaborative Social Innovation in the Hybrid Domain: Organization and Rationality**" at the 14th International Conference on Social Implications of Computers in Developing Countries (IFIP Working Group 9.4 2017 conference) held during May 22-24 in Yogyakarta, Indonesia. Yuko Aoyama, Clark University, co-authored the paper.

Prof. Dinesh Jayagopi's collaborative work with Prof. Daniel Gatica-Perez and Dr. Oya Aran, researchers at EPFL Switzerland, has been published as a book chapter in Social Signal Processing by Cambridge University Press, 2017. The title of the chapter is "**Analysis of Small Groups**".

Akshay Jindal (IMT2012002) presented his work done under the supervision of Prof. Shrisha Rao on **agent-based modeling of mosquito-borne diseases**, at the AAMAS 2017 conference in São Paulo, Brazil, on May 10. The full citation of the paper is:

Akshay Jindal and Shrisha Rao, Agent-Based Modeling and Simulation of Mosquito-Borne Disease Transmission. Sixteenth International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2017), São Paulo, Brazil, May 2017, pp. 426-435.



The article titled "**Aadhaar security: Why government needs to develop a framework for analysing privacy issues**" by Prof. V. Sridhar and Prof. T. K. Srikanth has appeared in Financial Express on May 4. The article is published at:

<http://www.financialexpress.com/industry/aadhaar-security-why-government-needs-to-develop-a-framework-for-analysing-privacy-issues/653313>

The article titled "**Big Data's big governance impact**" by Prof. V. Sridhar has appeared in Live Mint on May 19. The article is published at:

<http://www.livemint.com/Opinion/HDSiFfUfFEiOcmw1KHKTNM/Big-Datas-big-governance-impact.html>

Ramakrishnan Raman (PH2015010) presented his paper titled "**Knowledge Value Stream Framework for Architecting Complex Products**" co-authored by Meenakshi D'Souza, at the IEEE TEMSCON (Technology Engineering Management and Society Conference) held during June 8-11 in Santa Clara, USA.

The article titled "**Why are telecom firms in the doldrums?**" by Prof. V. Sridhar and Prof. Rohit Prasad, MDI, Gurugram has appeared in Live Mint on June 12. The article is published at:

<http://www.livemint.com/Opinion/Zt5OmUwqqZOlPovXdrnLiP/Why-are-telecom-firms-in-the-doldrums.html>

The article titled "**Getting through campus placements**" by Prof. Sujit Kumar Chakrabarti has appeared in Deccan Herald on June 22. The article is published at: <http://www.deccanherald.com/content/618626/getting-through-campus-placements.html>

Journal article: **Sridhar, V.**, Selvaraj, V. (2017). Management of Outsourced Satellite Phone Development Project: Sasken's Experience. Journal of Information Technology Teaching Cases. DOI: 10.1057/s41266-017-0019-1.



IITB In Media

[The democratization of the supercomputers](#)

[These Bengaluru game designers have gamified policymaking. Let's play!](#)

[Can Netflix and Amazon Disrupt India's Streaming Video Market?](#)

[Big Data's big governance impact](#)

[Screwvala's co to offer courses in tech](#)



Faculty and Staff

Prof. S. Sadagopan delivered the keynote address at the **Infineon Technology Symposium** on May 4.

Balaji Parthasarathy was invited to attend a workshop on the **Developmental Implications for Digital Economies** organized by the University of Manchester's Global Development Institute, and funded by the UK's Economic and Social Research Council. The workshop was held during May 25-26 in Yoyakarta, Indonesia.

Jaya Sreevalsan Nair gave an invited talk on "**Visual Analytics of Airborne LiDAR Point Clouds**" at the one-day workshop on Satellite Remote Sensing and Image Analysis at the IEEE GRSS (Geoscience & Remote Sensing Society) Bangalore Chapter at ISI Bangalore on June 12.

Prof. Sachit Rao was invited to give a series of lectures on the "**Theory of Variable Structure Systems**" as a part of the QIP short term course on Nonlinear and Adaptive Control, organised at IISc, on June 16.

The paperback edition of the book "**Politics of the 'Other' in India and China: Western Concepts in non-Western Contexts**" edited by Lion Koenig and Bidisha Chaudhuri, and published by Routledge in 2016 was launched on June 19 at The Cayley Lecture Theatre, University of Westminster, London, U.K.

The details of the event are at: <https://www.westminster.ac.uk/events/politics-of-the-other-in-india-and-china-western-concepts-in-non-western-contexts>

Meenakshi D'Souza gave an invited talk at the International Conference on **Women in Science, Research and Innovation**, a collaborative venture by Consulate General of Israel and Christ University, on June 20 at the Christ University, Bengaluru

Prof. V. Sridhar was an **external thesis committee member** for doctoral candidate, Rishabh Dara, who graduated in 2017 from Indian Institute of Management Ahmedabad, India . Rishabh's thesis is titled, "A Framework to Analyse the Telecommunications Policy Process in India"

Prof. V. Sridhar was **doctoral dissertation examiner** for the Rajkumar Upadhyay of Indian Institute of Management Bangalore, and Manas Tripathi of Indian Institute of Management Lucknow. Rajkumar defended his thesis on "Three essays on evolution of the Indian Cellular Industry" on May 26. Manas defended his thesis on "A Framework for IT Risk Management and IT Governance for Organizations" on April 18.



Students

Kavitha Narayanan (PH2016004) participated in the Residential Summer School titled "**Doing Marxism Today**" organised by the South Asian University, New Delhi and Rosa Luxemburg Stiftung, Germany during June 3-12.



Academic Milestones

May 5: Thesis Oral Examination on "**Design of an RSD Cyclic ADC with analysis of effects of Finite gain and capacitor mismatch**" by Banda Gowthami Prasanna (MS2013006).

May 19: Thesis Oral Examination on "**Investigation and Implementation of a 10-bit adiabatic SAR ADC for low power applications**" by Arjun Sundaresan (MT2015510)

May 30: Thesis Oral Examination on "**Novel Information Exchange Mechanism For Interworking In 4g And 5g Networks**" by G. Akhil (IMT2012015)

June 1: Thesis Oral Examination on "**Identifying Opinion Drivers on Social Media**" by Anish Bhanushali (MT2015013)

June 2: Thesis Oral Examination on "**Data, Data Every Where, and Citizens Put It to Use: A Case of Data-Centred Civic Initiatives in India**" by Tejas Pande (DT2015007)

June 5: Thesis Oral Examination on "**Human Trajectory Prediction Using Spatially Aware Deep Attention Models**" by Daksh Varshneya (IMT2012012)

June 6: Thesis Oral Examination on "**On the Authenticity of Garbling Schemes**" by Yashvanth Kondi (IMT2012053)

June 6: Thesis Oral Examination on "**An Anonymous Credential System Using Standard Signature Schemes**" by Dhananjay Pawan Ravi (IMT2012014)

June 6: Thesis Oral Examination on "**Privacy-Preserving Perceptron Learning On Secret -Shared Floating Point Data**" by Karthik S. (IMT2012021)

June 6: Thesis Oral Examination on "**Estimating Traffic Density At Inter-Sections**" by Chandan Yeshwanth (IMT2012010)

June 7: Thesis Oral Examination on "**Causal Discovery For Closed Systems: The Example Of Aircraft Engines**" by Tanmayee Narendra (IMT2012046)

June 7: Thesis Oral Examination on "**Extracting Event Mentions from Text and Anchoring their Occurrences to a Timeline**" by Ved Mathai (MT2015125)

June 7: Thesis Oral Examination on "**Network Grafting: A novel approach to Autonomous Transfer In Deep Reinforcement Learning**" by Sushravya G. M. (IMT2012044)

June 8: Thesis Oral Examination on "**Constructing e-waste: An ethnographic study of an e-waste campaign in south Bangalore**" by Anisha Nazareth (IMT2012005)

June 9: Thesis Oral Examination on "**Approximation Algorithms For Vehicle Routing Problems On A Line And A Ring**" by Ananth Murthy (IMT2012004)

June 12: Thesis Oral Examination on "**Human-Weapon Activity Detection In Surveil Lance Videos Using Structural-Rnn**" by Susarla Praneeth Kumar (IMT2012043)

June 12: Thesis Oral Examination on "**Automatic Analysis Of Table Tennis Strokes Using Rgb Cameras**" by Neha Tarigopula (IMT2012029)

June 13: Thesis Oral Examination on "**Automatic Evaluation Of Hand-Drawn Face Sketches With Adaptive Feedback To Improve**" by Mayank Sharma (MT2015063)

June 14: Thesis Oral Examination on "**Contract based development and refinement in Simulink**" by Sujit Kumar Muduli (MT2015113)

June 14: Thesis Oral Examination on "**Active Learning For Automatic Image Annotation With Bayesian Convolutional Neural Networks**" by Mohammed Haroon (MT2015065)

June 14: Thesis Oral Examination on "**Paragraph To Paragraph Neural Machine Translation Based On Attention Model**" by Peeyush Joshi (MT2015075)

June 14: Thesis Oral Examination on "**An Analysis Of Dynamic Memory Network Method For Machine Comprehension**" by Prachi Prakash Mahapatro (MT2015076)

June 14: Thesis Oral Examination on "**Large Scale Railway Timetabling Optimization**" by Sanat R. (IMT2012039)

June 14: Thesis Oral Examination on "**Stock Market Analysis Using Deep Recurrent Neural Network Models**" by Anjani Kumar Jha (MT2015015)

June 14: Thesis Oral Examination on "**The occupation of the IT engineer in India: Looking back to see ahead**" by Supriya Dey (MS2014006)

June 14: Thesis Oral Examination on "**The Social Construction of Paper Based Health Records**" by Priyanka Ivatury (DT2015006)

June 15: Thesis Oral Examination on "**Design of Programmable Output Binary and Fibonacci Switched Capacitor Step-down and Step-up DC-DC Converter**" by Mahesh Zanwar (MS2014002)

June 19: Thesis Oral Examination on “Smoothed Truncation Windows For Mri Image Reconstruction Using Partial Data” by Satyabrat Shrikumar (MS2012008)

June 29: State-of-the-art seminar on “Study of Multilingual Phone Recognition using Indian Languages” by Manjunath K. E. (PH2014014)



Guest Talk

June 14: “Moving towards Predictive Analytics in Real Time in Intensive Care Units” by Prof. Rishikesan Kamaleswaran, the Center for Biomedical Informatics and Division of Critical Care Medicine at the University of Tennessee Health Science Center.



Campus Visitors

May 2: Students from Bangalore Science Forum summer school.



May 2: Dr. Anup K Pujari, IAS.

May 18: Delegation from African Development Bank.



June 15: Ms. Anupam Agrawal, Sandeep Oberoi, TCS

June 15: Prof. Ashok Srinivasan, Florida State University.

June 16: Mr. T. K. Srirang, Senior General Manager & Head – Human Resources ICICI Bank Ltd and Governing Body Member of IIIT-Bangalore.

June 17: Ms. Bombay Jayashri accompanied by Mr. Ramanathan, Mr. Sabesh, Mr. Vikram Sampath, and Mr. Rickey Kej. Mr. Kej was part of the Grammy 2016 winning album "Grace".



June 19: Dr. Nipun Kwatra, co-founder, Chekkoo Technologies



Campus Calendar for July

July 2: 17th Convocation

July 7: Arrival of new M.Tech batch

July 10: Classes begins for the new M.Tech batch

July 20: EHRC Seminar Series - a talk on ultrasound imaging by Prof. Subhajit Sen and team

July 31: Arrival of new iM Tech batch