



International
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Technology Bangalore

Newsletter

October 2018



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From the Director's Desk



October saw a short break from the fast-paced semester activities with the mid-term break along with the festive season when we had celebrated Dusshera on campus. We have geared up with admissions activities for research degree programs for the next term. The month ended on a high note of activity, with a MoU signing with NIMHANS, RMIT 2018, and Yamini 2018.

In October, we honor and celebrate relentless work. While our own Dean's list was announced in October, the month is special worldwide for the Nobel prize announcements. 2018 Nobel Prize in Physiology/Medicine went jointly to James P. Allison and Tasuku Honjo for "their discovery of cancer therapy by inhibition of negative immune regulation"; Prize in Physics was awarded "for groundbreaking inventions in the field of laser physics" went half-way to Arthur Askin for "for the optical tweezers and their application to biological systems" , and then, jointly to Gérard

Mourou and Donna Strickland for “their method of generating high-intensity, ultra-short optical pulses”; Prize in Chemistry went halfway to Frances H. Arnold for “directed evolution of enzymes” and then, jointly to George P. Smith and Sir Gregory P. Winter for “the phage display of peptides and antibodies”; Peace Prize jointly to Denis Mukwege and Nadia Murad for “their efforts to end the use of sexual violence as a weapon of war and armed conflict”; and Sveriges Riksbank Prize in Economic Sciences in the memory of Alfred Nobel to William D. Nordhaus for “integrating climate change into long-run macroeconomic analysis,” and Paul M. Romer for “integrating technological innovations into long-run macroeconomic analysis.”

We also take this opportunity to pay our respects to Paul Allen, who passed away on October 15. Paul was an American philanthropist, business magnate, technologist, and investor, and he has been more famous as the co-founder of Microsoft.

HAPPY READING!

Achievements

Amitabh Tiwari (MT2017018) and Akash Shendge (MT2017010) **won the IBM Hack Challenge with INR 40000 and 6 months internship** offers at IBM Software Labs. The hackathon results were announced on October 26. The team had worked on the development of SHADE Engine (Social-media Health Analysis and Display Engine) using IBM Watson Services and custom ML models. The goal was to detect whether a person is suffering from depression through his social media activity (Instagram Images, Medium Blogs, Tweets) and then come up with measures to overcome the same.



Abidha V. P. (PH2016010) **won the TCS Research Scholarship, instituted by Tata Consultancy Services (TCS)**. She is working towards her thesis in Theoretical Computer Science under the supervision of Prof. Pradeesha Ashok.

Vinay Chandrashekar (IMT2015523) **won the 1st Place Poster Student Paper Award in IEEE Sensors 2018 Conference** for his paper on "Motion Adaptive Image Capture in a Body-Worn Wearable Sensor." The co-authors of the paper are Masudul Imtiaz and Edward Sazonov, of the University of Alabama.



The **Dean's List** was announced in October 2018. The following students have made it to the Dean's List -- Ashish Kumar Srivastava (DT2016003), Dipanjan Saha (DT2017004), Amogh Johri (IMT2017003), Ananya Appan (IMT2017004), Ayush Yadav (IMT2017009), Deep Inder Mohan (IMT2017013), Eric John (IMT2017016), Kaushal Mittal (IMT2017024), Seelam Lalitha (IMT2017027), Swasti Shreya Mishra (IMT2017043), Yeddula Sai Dhanush Reddy (IMT2017047), U. Prateksha (IMT2017517), Ram S. (IMT2017521), Rathin Bhargava (IMT2017522), Kalyanapu Sailesh (IMT2017524), Gopalakrishnan V. (IMT2016001), Aayush Grover (IMT2016005), Satvik Sunkam Ramaprasad (IMT2016008), Shobhit Pankaj Behl (IMT2016024), Akshi (IMT2016025), Biswesh Mohapatra (IMT2016050), Aditya Gulati (IMT2016052), Aditya Shridhar Hegde (IMT2016054), Lakshmi Manonmale Pasumarthy (IMT2016057), Nomula Rohith Yogi (IMT2016072), Nimisha Garg (IMT2016082), Dacheepalli Soumith Kumar (IMT2016110), Ananth Shreekumar (IMT2016129), Abhiramon R. (IMT2015002), Aditya Ankush (IMT2015003), Alavala Deepika (IMT2015006), Ghantasala Oormila (IMT2015015), Utkarsh Agrawal (IMT2015044), Aparna D. Nair (IMT2015504), Krishna Nagaraj (IMT2015512), Pranav Aggarwal (IMT2015517), Vinay Chandrashekhar K. (IMT2015523), Ahmad Shayaan (IMT2014004), Ankita Christine Victor (IMT2014005), G. Neha (IMT2014018), Gaurav Koley (IMT2014019), Indu Ilanchezian (IMT2014024), Meghana Kotagiri (IMT2014034), Seelapureddy Venkata Rama Aditya Reddy (IMT2014047), Paliwal Aditya Sanjay (IMT2013004), B. Laasya (IMT2013008), Devarsh K. U. (IMT2013012), Komaragiri Vasundhara (IMT2013018), Kumaresh Krishnan (IMT2013021), Meghana M. Reddy (IMT2013025), Nigel Steven Fernandez (IMT2013027), Pranay Dugar (IMT2013030), Rajesh D. M. (IMT203032), Simran Dokania (IMT2013044), Sri Veda

Chevuru Reddy (IMT2013047), Trisha Mittal (IMT2013053), Akshita (MT2017012), Anamol Saxena (MT2017020), Anmol Asrani (MT2017023), Shinde Deepali Deelip (MT2017037), Veerapuraju Dhanya Akhila (MT2017041), Harshita Gupta (MT2017047), Jaishankar G. M. (MT2017054), Kavya K. Puranik (MT2017060), Sumitesh Purohit (MT2017120), Gaorav Kumar Gupta (SMT2017003), Rahul Kumar (SMT2017013), Sowbamika Thirupathiraj (SMT2017023), Surendra Pandey (SMT2017027), Anjana K. (MT2016011), Archana R. (MT2016021), Chavala Sriharipriya (MT2016040), Chellapriyadarshini M. (MT2016041), Jyotsana (MT2016068), Kanika Narang (MT2016069), Meghna Ajay Srivastava (MT2016082), Naik Shivani Shrikant (MT2016088), Nimrani Alok Ramesh (MT2016094), Nishant Oli (MT2016096), Patel Meet Shantibhai (MT2016102), Sabari Nathan A. (MT2016138), Suparna Ghanvatkar (MT2016138), Polareddy Bhavani Lakshmi (MT2016518), Prashanthi S. K. (MT2016520), Sulochan Naik (SMT2016023), Kavin Kumar T. (SMT2015014), Kishore S. N. (SMT2015015), Mohanraja B. (SMT2015020). The list has been published at: <https://www.iiitb.ac.in/donates.php?pid=student-iiitb&class=Dean039s-List1>

Campus News



Events

India Literacy Project (ILP) in partnership with IIITB organized a **Rural Education Hackathon** on October 6 with a singular focus on - to explore ideas & technology solutions to aid and empower the large rural teacher community across India. The hackathon winners are:

Team #1 Cisco - Solution named "Srimathy" for Rural English language teaching

Team #2 Skillio - Chatbot solution for career Counseling



On October 6, **Fae Bikes organised an inaugural event** at IIIT Bangalore where they

launched **Fae Bikes - India's first IoT-powered automated electric scooter** share service, and **FaeSpark** - fast charging station network for Electric Vehicles in the presence of Chief Guest, Shri Gaurav Gupta, the Principal Secretary of Department of IT, BT & ST.



IIITB was a Community Partner in the Open Source India 2018 event scheduled during October 11-12 at the NIMHANS Convention Centre, Bengaluru. Open Source India (OSI) is an attempt by the team at Open Source For You magazine in partnership with India's Open Source community and industry to bring various stakeholders under one roof. The Academic partnership with Open Source India 2018 event has been helpful. Thirty five students from IIITB who attended the conference, have acknowledged that the program was current, relevant and useful to them. The program gave us some open source ideas which we can put in to practice in our Open Source Technology Lab projects.

Ayudha Puja and **Saraswathi Puja** were celebrated at IIITB on October 17.



A memorandum of understanding (MoU) signed between IIITB and NIMHANS on October 30. The MoU is regarding the research and development of an IT-enabled solution to

support the management of mental health care in Karnataka. This project will be implemented by the E-Health Research Center under the leadership of Prof. T. K. Srikanth, in partnership with NIMHANS and the Government of Karnataka.

The ninth conference of Ramanujan, Math and IT (RMIT2018) was held during October 30-31 at IIITB. This series of conference celebrates the life and work of the Indian mathematician Srinivasa Ramanujan, by bringing together pure and applied mathematicians and information theory professionals together. This edition was inaugurated by the Director, Prof. S. Sadagopan. The conference had talks by Prof. V. Arvind (IMSc, Chennai), Prof. D. Surya Ramana (HRI, Allahabad), Prof. Anand Louis (IISc, Bangalore), Prof. R. Ramanujam (IMSc, Chennai), Prof. R. Balasubramanian (IMSc, Chennai), Dr. Karthik Ramachandra (Microsoft Research Lab), Mr. K. Subramani (IIITB), Prof. Vijay Patankar (JNU, New Delhi), Dr. Anusha Mujumdar (Ericsson Research, Bangalore), Prof. C. S. Rajan (TIFR, Mumbai), Prof. C. Pandu Rangan (IIT Madras), and Prof. Ashish Choudhary (IIITB). The conference is organized by IIITB faculty members by a committee headed by Prof. Manisha Kulkarni.



SPIC MACAY chapter of IIIT Bangalore held the second edition of its overnight cultural event, Yamini 2018, from dusk to dawn during October 31-November 1. The event celebrated five major classical art forms. The event commenced with the performance of Hindustani Violin by Dr. N. Rajam, a Padma Bhushan awardee. Dr. Rajam has been awarded the 2012 Sangeet Natak Akademi Fellowship, the highest honor in the performing arts, conferred nationally. It was then followed by Dr. Jayanthi Kumaresh, the founder of Indian National Orchestra, playing the Saraswathi Veena. Dr. Kumaresh has received many awards in India, such as, the "Sangeetha Choodamani", the "Kalaimamani" by the

Government of Tamil Nadu, to name a few, and is a seven-time recipient of "Award for Veena" conferred by the Music Academy, Chennai. Vidwan S. Saketharaman along with a group of artists gave a Carnatic vocal performance, next. Vidwan Saketharaman has received the Yuva Kala Ratna, M. S. Subhalakshmi Award, amongst several others, and was a recipient of the "Best Vocalist Award" conferred by the Music Academy, Chennai, for three consecutive years. Koodiyattam exponent Margi Madhu Chakyar performed next, showcasing the dance drama from the state of Kerala. Margi Madhu, who is involved in research projects on various aspects of the Koodiyattam art form, has received several awards for his body of work, such as the Sanskriti National Award for young artists, the Yuva Kala Ratna award, the Theatre Pasta International Award, and the Kerala Kalamandalam Award. Yamini 2018 event concluded with a performance by Dr. Ashwini Bhide-Deshpande performing Hindustani vocals, at sunrise. Dr. Bhide-Deshpande had decided to pursue her career in music, after receiving a doctorate in biochemistry; and today, she is a renowned vocalist with a unique style, blending her influences from the Jaipur-Atrauli, Mewati, and Patiala gharanas. The event was organized by a large team of student volunteers, led by Bhavisha Sahitya (MT2018025), with Gaurav Joshi (MT2018035), Srujana Kamath (DT2017010), Minnu Ann Abraham (MT2017069), Tripti Agarwal (MS2017009), Ajayveer Singh (MT2018004), and Anushka Parashar (MT2017024) playing key anchor roles for various aspects of the event organization. Profs. G. Srinivasaraghavan and Janaki Srinivasan are the faculty members involved in the effort.



The **second meeting of the Governing Council, and of the Senate, of the Myanmar Institute of Information Technology (MIIT)** was held in Mandalay, on October 30. Prof. Chetan Parikh attended the meetings as a representative of IIT Bangalore, which is mentoring MIIT.



Seetarama Raju Pericherla (IMT2014038) presented his paper titled "**Modeling Confirmation Bias Through Egoism and Trust in a Multi Agent System**" at the 2018 IEEE International Conference on Systems, Man, and Cybernetics (SMC2018) held in Miyazaki, Japan, from October 7-10. The other authors of the paper are Rahul Rachuri (IMT2014041) and Prof. Shrisha Rao. The full citation is: Seetarama Raju, Rahul Rachuri, Shrisha Rao (2018). Modeling Confirmation Bias Through Egoism and Trust in a Multi Agent System. IEEE International Conference on Systems, Man, and Cybernetics (SMC2018), Miyazaki, Japan, October 2018.



Balaji Parthasarathy co-authored the following paper with Yuko Aoyama. "**When both state and market fail: Inclusive development and social innovation in India.**" Area Development and Policy. 3(3):330-348, 2018.

Chaitali Diwan (PH2016002-TODO-roll number), Srinath Srinivasa, and Prasad Ram presented and published their work "**Computing Exposition Coherence of Learning Resources**", in proceedings of the 17th International Conference on Ontologies, Databases, and Applications of Semantics (ODBASE 2018), Springer LNCS, Valletta, Malta, October 22-26, 2018. Paper is available at:

https://link.springer.com/chapter/10.1007/978-3-030-02671-4_26

Prajwal Sharma (MT2016519) and Krishna Nagaraj (IMT2015512) presented their paper on "**Development of a minimally invasive Ventricular Assistive Device**", co-authored by Vikas Vazhayil (PH2016014) and Prof. Madhav Rao, at the IEEE Sensors 2018 conference held in New Delhi during October 29-31.

Nitin Nair presented his paper, jointly authored with Chinchu Thomas (PH2015017) and Dr Dinesh Jayagopi, and titled "Predicting Engagement Intensity in the Wild Using Temporal Convolutional Network" at the 6th Emotion Recognition in the Wild Challenge (EmotiW), 20th ACM International Conference on Multimodal Interaction (ICMI) 2018, Colorado, USA. The system built by the authors was ranked 3rd in the "**Engagement in the Wild**" challenge.



IIIIT Bangalore in Media

[Bengaluru techies develop an app to help rural school teachers learn English](#)

[BMTC to set up big data analytics center to improve its services](#)

[Give your career an 'UpGrad' and switch to a career in Machine Learning & AI](#)

[IIIIT-Bengaluru working on a platform to simplify BMTC data](#)

[Teachers have a great responsibility, says Director of IIIIT, Bengaluru](#)

[Top 10 Courses And Training Programs On Artificial Intelligence In ...](#)



Faculty, Staff and Students

Prof. Manish Gupta gave a talk on "**Applying Machine Learning for Human Learning**" on October 10 at Bangalore Science Forum, National College, Bengaluru (<http://bangalorescienceforum.in/>)

Prof. Subhajit Sen and Chetan Parikh presented their research on pipelined ADC design at the annual inter-university research conference of ISRO-SAC (Ahmedabad) on October 30, 2018.

New Faces on Campus

October 01: Dr. Priyanka Das joined as Assistant Professor. More at the faculty webpage:

https://www.iiitb.ac.in/faculty_page.php?name=drpriyankadas

October 31: Dr. Vinod Veera Reddy joined as Assistant Professor. More at the faculty webpage: https://www.iiitb.ac.in/faculty_page.php?name=vinodveerareddy

Academic Milestones

October 30: The state of the art seminar on “**Open Government Data and citizen participation – A study of MGNREGA**” by Rajesh D. Hanbal (PH2015008)

Guest Talks

October 10: “**Privacy and Security in Online Social Media (PSOSM)**” by Prof. Ponnurangam Kumaraguru, Associate Professor at IIIT-Delhi, Visiting Associate Professor at IIIT Hyderabad.

October 24: “**Automatic Discovery of Efficient Divide-&Conquer Algorithms for Dynamic Programming Problems**” by Dr. Pramod Ganapathi, Founder & CEO, Learning is Beautiful.

Campus Visitors

October 03: Mr. H. R. Ananth, Managing Director, Bangalore Press

October 06: Mr. Gaurav Gupta, IAS, Principal Secretary to Government, Department of ITBT, Government of Karnataka & Participants of ILP- IMACX Hackathon

October 17: Delegates from Mahatma Gandhi International Higher School of Informatics and E-Leadership, Plovdiv, Bulgaria

October 31: Mr. Nishchal Nadhamuni & Mr. Andrew Klarity



Samvaad Talks

October 8: “Some emerging (and re-emerging) areas in digital VLSI Systems”
by Prof. Subir K. Roy.

October 15: “Understanding a post-web world” by Prof. Srinath Srinivasa.

October 22: Algorithms in Software Engineering” by Prof. Sujit Kumar Chakrabarti.

October 29: “Healthcare” and “Data Privacy and Aadhaar” by Prof. T. K. Srikanth.



Campus Calendar for November-December 2018

November 07: Holiday for Diwali

November 24: Graduation Ceremony of Post Graduate Diploma in Data Analytics/Science

December 3-8: Finals week