



**A Half-yearly e-newsletter of the Department of Computer Science and Engineering
Manipal Institute of Technology, Manipal University, Manipal
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Message from Department Chair



I am happy to note that the Department of Computer Science and Engineering is bringing out the first e-newsletter of the department. This will provide a platform to share the success stories of staff members, students and alumni of the department. It is my pleasure to thank each one of you for your support during my tenure. I congratulate and wish all the best to Dr. Ashalatha Nayak who has taken over the responsibility as the Head of the Department. I wish all the success and hope to see many more issues of the e-newsletter.

A Warm Welcome to the new Head of the Department

We are pleased to welcome Professor Ashalatha Nayak as the new Head of the Department. Professor Ashalatha Nayak has a PhD in Computer Science from IIT Kharagpur. She has authored/co-authored more than 20 technical articles in refereed journals and conferences. Professor Ashalatha Nayak takes over as Head of Department from Professor Renuka A, who has successfully held the post for the past five years. The department appreciates the efforts put in by Professor Renuka A in strengthening the department and would like to congratulate and welcome Professor Ashalatha Nayak on her new post.



Machine Learning Workshop

“Google’s self-driving cars and robots get a lot of press, but the company’s real future is in machine learning, the technology that enables computers to get smarter and more personal”, says Eric Schmidt (Google Chairman) . The two-day workshop “Clustering in Machine learning” organized by the department was conducted on 26-27 September 2016. The resource persons were Prof. Dr. Nachamai and her team from Christ University, Bangalore. The workshop gave an insight into the basics and various techniques used for clustering in machine learning and its application. The workshop was huge success with 98 participants including students and faculty members of various department of MIT.



Microsoft Hackathon

The Department of Information and Communication Technology and Department of Computer Science in collaboration with Microsoft conducted a 24 hour event ‘code.fun.do’ ,Microsoft Hackathon on 22nd-23rd October 2016. A total of 87 teams participated of which 72 teams submitted their projects at the end. The three winning teams are going to compete at the national level.

Faculty Journal Publications

1. Hemalatha.S, U. Dinesh Acharya, Renuka A, “ High capacity video steganography technique in transform domain”, Pertanika Journal of Science and Technology, July 2016.
2. Rudresh D. Shirwaikar, Dr. Dinesh Acharya U, U. Krishnamoorthi Makkithaya, M. Surulivelrajan , Leslie Edward Simon Lewis, “Machine Learning Techniques for Neonatal Apnea Prediction”, International Journal of Artificial Intelligence, August 2016.
3. K.N. Manjunath, P. C. Siddalingaswamy , G.K. Prabhu, "An Improved Method of Colon Segmentation in Computed Tomography Colonography Images Using Domain Knowledge", International Journal of Medical Imaging and Health Informatics, August 2016.
4. Bhargav J Bhatkalkar ,Govardhan Hegde K, Dr. Srikanth Prabhu, Dr. Sulatha Bhandari, “Feature Extraction for Early Detection of Macular Hole and Glaucoma in Fundus Images”, International Journal of Medical Imaging and Health Informatics, October 2016.

Faculty Mentor: Dr.Renuka A

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From the Desk of Research Groups

COMPUTER VISION

Convener - Dr. P.C Siddalingaswamy

Computer Vision In Agriculture : Technological advances in recent times have made a difference in the way the agronomists,

... [read more](#)

Compiled By: Mrs. Radhika Kamath

MACHINE LEARNING

Convener - Dr. Srikanth Prabhu

Machine Learning – The Future : Machine learning is a branch of computer science where algorithms learn from data.

....[read more](#)

Compiled By: Ms. Jimcymol James

KNOWLEDGE ENGINEERING

Convener – Dr. U. Dinesh Acharya

Brain Biometrics: Your responses to certain stimuli -- foods, celebrities, words might seem trivial, but they say a lot about you.

....[read more](#)

Compiled By: Mr. Govardhan Hegde

Welcome to New Faculty

We are pleased to welcome our new faculty, Mr. Manjunath K N who has joined the department as an Assistant Professor-Senior Scale. He has submitted his PhD thesis in medical imaging stream to Manipal University. He has around 7+ years of corporate experience in the cross functional areas of Research and Development (CT Imaging and Radiation Oncology Solutions).



Farewell to Mrs.Vimala Kamath

The department hosted a farewell party for Mrs.Vimala Kamath , General Duty Worker who retired from service on 31 October 2016. She has served in different institutions under Manipal University for more than 20 years. The department wishes her a happy retired life.



Student News

Final year student bags unique Internship opportunity

The “Women Enhancing Technology, WeTech ” scholarship and internship is a partnership program between the Institute of International Education (IIE) and Juniper Networks, that invests in young women and future leaders in ICT in the United States and India. Through WeTech, Juniper Networks is investing in building the global pipeline of women in STEM by providing scholarships to current female students in India and the United States. The scholarship amounts to \$5,000 for the academic year 2016-2017 and our student Ms Ganga Singhal is fortunate to be a part of this unique opportunity during the period Jan – June 2017.

Simple innovations can make big changes in people’s lives

In collaboration with Philips, Manipal University organized “HackAbout-2016” on 13th September 2016 for the students of MIT and KMC. The contest was among 49 teams to design and prototype solutions to identified medical problems. The main motto was to enable better and improved health care services in India. The team of four students Shikhar Srivatsava and Reuben John from our own department along with Sidharth R and Siddharth Pratap Nene from KMC bagged a prize money of One Lakh Rupees as the winner.



Advent of ‘Flico’: From Manipal to Silicon Valley

‘Flico’, is a startup launched by four students of our department named Yash Goel, the founder, and co-founders, Kartik Arora, Anirudh Raghunath, Rahil Patel and Amrit Ayyar from Information Technology ,which is described as a Chrome Extension aimed to fulfill the average user’s curiosity by predicting relevant information from a media file. The team won AngelHack Coding Contest and was one of those best performing teams which was invited to pitch at the Global Demo Day held in November 2016 at Silicon Valley in the USA.

Department Club Activities

IECSE

Faculty Advisor: Mr.Giridhar N S

To improve competitive coding and graphic designing of students, weekly meetings of Code Meets, Web Meets, Design Meets , Developer Meets.. were conducted.

Linux User Group

Faculty Advisor: Mr. Ashwath Rao

MuPy - Manipal's first ever Python Developer Conference was held at MIT Manipal on October 22 and 23, 2016. The Conference saw about 240 students.

ACM Student Chapter

Faculty Advisor: Dr.Srikanth Prabhu

The new club which started this odd semester had a series of meetings to come up with the event schedule for 2017-18.

Alumni Speaks

SAP HANA Cloud Platform for IOT

I joined SAP Labs through campus placement in 2013 and have been part of this organization since then. Recently SAP has dived into the IOT arena aligning it for ERP systems. The SAP HANA platform enables to go from sensor to action with SAP HANA Cloud and the Internet of Things service. It provides the ability to quickly develop, deploy, and manage real-time IOT and machine-to-machine (M2M) and remote data synch applications. I hope to work more on this technology in the coming year and build an expertise on it.

-Megha, 2013 Batch , SAP Labs Pvt.Ltd.

