

Manipal Academy of Higher Education

Impressions@MAHE

Faculty work

Summer 7-1-2021

A Half- yearly E-newsletter of the Department of Computer Science and Engineering, Manipal Institute of Technology - Jul 2021

Ashalatha Nayak Dr.

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MESSAGE FROM DEPARTMENT CHAIR



Warmest greetings to all. It gives me immense pleasure to publish the new issue of the E-newsletter. We have been together in this pandemic for more than a year and the teaching learning process is entirely shifted to online mode. Even in these unprecedented times, the faculty members and the students have enthusiastically participated in various academic, extra-curricular and research activities. I congratulate all who have won accolades in all these activities and encourage all of them to continue with this trend. Happy reading and stay safe.

- Dr. Ashalatha Nayak

Faculty Mentor

Dr. Srikanth Prabhu

Editor-in-Chief

Ms. Vidhya V.

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1. Mr. Ashwath Rao B.
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4. Dr. Bhargav Bhatkalkar
5. Ms. Priya Kamath
6. Dr. Radhakrishna Bhat
7. Ms. Richa Hinde
8. Ms. Vidya Prabhu

DEPARTMENT EVENTS

JOINT INTERNATIONAL CONFERENCE

The Department in association with St. Francis De Sales College, University GoGlobal and Rotary Club Manipal organized an international conference on Global Collaborations in Science, Technology, Education, Mathematics (STEM) & Humanities to advance the Frontiers of Knowledge and Innovation" from 8th to 13th March 2021. The conference is aimed at providing perfect opportunity to exchange and share advances in knowledge and innovation and inspiring the student community to be the next generation leaders in technology and innovation. The virtual conference was co-ordinated by Dr. Srikanth Prabhu.

Ph.D. AWARDEES

Mr. Ravindra B. V. has been awarded doctoral degree by MAHE, Manipal, for his thesis titled "Knowledge based decision support medical system using Data mining framework" under the co-guideship of Dr. Geetha M.

Ms. Vidya Rao has been awarded doctoral degree by MAHE, Manipal, for her thesis titled "Design of secure communication schemes to provide authentication and integrity among the IoT devices" under the guidance of Dr. Prema K. V.

Mr. Muralikrishna S. N. has been awarded doctoral degree by MAHE, Manipal, for his thesis titled "Development of novel algorithms for human action and activity recognition in video surveillance system" under the guidance of Dr. Balachandra.

Ms. Rashmi Naveen Raj has been awarded doctoral degree by MAHE, Manipal, for her thesis titled "Development of multi-objective based Spectrum aware routing protocol for cognitive radio ad hoc networks" under the guidance of Dr. Ashalatha Nayak.

SAMSUNG PRISM PHASE III

Samsung PRISM is a platform for Professors and Students to work on industry relevant projects. As part of this program, Samsung has executed MOU with MAHE to collaborate with relevant Departments/Professors on real-time projects across Institutions. As part of Phase III of the program, four faculty members from the department are mentoring the R & D worklets in the domain of 5G multimedia.

ALUMNI CORNER

CSE ALUMNI STRIKING A GOLDEN STREAK IN WORLD OF TECHNOLOGY



Google Cloud appoints Mr. Bikram Singh Bedi (1993) as Managing Director for India. He will be leading the Google Cloud's sales and operations teams in the country and is committed towards digital transformation in India by promoting use of cloud computing.

LAUNCH OF INDIA'S FIRST PLANT-BASED EGG

Mr. Prakarshi Pulkit who is also a graduate from a culinary school co-founded India's first plant-based liquid vegan egg producing company named PlantMade. He pursued his passion in culinary field and moved on to revolutionise the concept of vegetarian food styles.

ALUMNI RECEIVES ASIAN HR LEADERSHIP AWARD

Mr. Yashwant Lodha (2006), co-founder of the entrepreneurial firm Pay Nearby, has been conferred with 'Dream Company to Work For' award at the prestigious 19th Asian HR Leadership Award 2021.



ALUMNI APPOINTED AS HEAD OF ENGINEERING

Mr. Srinikandala (1993) has been appointed as head of engineering - big data platform and shared services at Motorola solutions. He will be responsible for managing engineering and product teams in various areas like data pipelines, cloud migration, data warehouse and analytics/reporting for better planning and efficiency in public safety and data security.

SASHA VASUVALA PROMOTED AS THE ASSOCIATE PARTNER IN MCKINSEY

Ms. Sasha Vasuvala (2007) has been promoted as the Associate Partner in McKinsey & Company. She has previously co-lead the Pharmaceutical & Healthcare, and Organization practices in McKinsey's India office.

DEPARTMENT CLUB ACTIVITIES

LINUX USERS' GROUP

Faculty Advisor

Mr. Ashwath Rao

Events Conducted

1. What the SHELL! Workshop - 10th Sept. 2020
2. Ctrl + C event - 6th to 9th Nov. 2020
3. Quarantine CTF event - 6th to 8th Nov. 2020
4. Smoked event - 6th to 9th Nov. 2020

IECSE

Faculty Advisor

Mr. Girdhar. N.S

Events Conducted

1. Session on 'Understanding SVM and KNN using Sklearn - 8th Apr. 2021
2. Code Meet - 10th to 11th Apr. 2021
3. Prometheus events - 5th to 21st June 2021

ACM STUDENT CHAPTER

Faculty Advisor

Dr. Srikanth Prabhu

Events Conducted

1. Co-host for India Data Scientist AI Fellowship (IDSAI) - 4th Mar. 2021
2. Session on 'How to start with competitive coding on Discode platform' - 27th May 2021

STUDENT ACHIEVEMENTS

OUTSTANDING ACADEMIC ENDOWMENT



Akshatha Kamath has been awarded the prestigious Knight-Hennessy Scholarship for Master's Program at Stanford University, USA. She is one among the two Indian students selected from around the world this year. She will pursue her Master's degree in Data Science at Stanford Graduate School of Education.

GRAND SUCCESS IN MAHINDRA'S SPARK THE RISE CHALLENGE

Project MANAS has been selected as one of the top 13 teams in 'Spark the Rise' Challenge organized by Mahindra & Mahindra and awarded a prize money of Rupees 25 lakh for their contribution to the self-driving car technology.



GRADUATE ADMISSIONS

Rakshit Naidu, a final year student, has received admissions to the Master of Science in Information Technology, Privacy Engineering (MSIT-PE) program at Carnegie Mellon University (CMU) for the class 2021-2022. He has also received a Director's Scholarship worth \$2000.

STUDENT WINS GOOGLE APAC SCHOLARSHIP



Sonalika Sahoo has been awarded 2021 APAC generation Google scholarship for women in Computer science. She is also invited to the virtual retreat hosted by Google in the month of June. She is the fourth female student from Manipal to receive the prestigious scholarship.

MANY FEATHERS TO HIS CAP

Kumud Lakara has been selected to the 2021 Harvard College Conference that was held virtually from 15th to 18th January 2021. He has been awarded the SPARK Research Fellowship to work as a research intern at IIT Roorkee. Further, the research paper titled 'BERT based Transformers for Extraction of Health Information from Social Media' by Kumud and his team has been accepted in one of the world's top NLP conference NAACL 2021. The team has also received first position in the task related to "Classification, extraction and normalization of adverse drug effect (ADE) mentions in English tweets" at SMM4H 2021 organised by University of Pennsylvania.

TRAVEL GRANT | INTERSPEECH CONFERENCE

Ritika Nandi and Dr. Manjunath Mulimani have received the prestigious International Speech Communication Association (ISCA) travel grant for presenting their paper titled "Acoustic Scene Classification using Kervolution - Based SubSpectralNet" at Interspeech 2021 conference.

STUDENT PUBLICATIONS

The research article titled "Weed Density and Distribution Estimation for Precision Agriculture Using Semi-Supervised Learning" by Sidharth R, got published in IEEE Access on February. His another research article titled "BERT based Transformers lead the way in Extraction of Health Information from Social Media" got

published in the Proceedings of the Sixth Social Media Mining for Health Workshop and Shared Task -NAACL 2021 on May 2021.

B.TECH STUDENT ACCEPTED INTO Ph.D. PROGRAM AT CMU

Parv Kapoor has been accepted into Ph.D. program in Software Engineering in the School of Computer Science (SCS) with full financial support.

DUO EMERGES FIRST RUNNER-UP IN IEEE CSSC IDEATHON

The team of Aaysuh Agarwal and Siddhisa Banerjee were declared first runner-up in the national level ideathon organized by the IEEE Computer Society Student Chapter (CSSC) of Vidyavardhaka College of Engineering, Mysuru on 13th March 2021. The student team was mentored by Dr. Srikanth Prabhu.

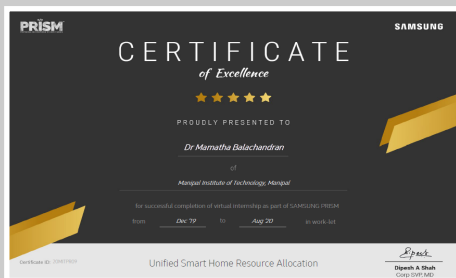


M.TECH STUDENT RECEIVES BEST PAPER AWARD

Rencita Maria Colaco, a M.Tech CSIS student and Dr. Narendra V G have won the best paper award for the paper titled "Image Processing Technique for Authentication of Indian Paper Currency" in the Third International Conference on Advances in Computing & Information Technology organized by Reva University, Bengaluru during 17th to 18th May 2021.

FACULTY ACHIEVEMENTS

The two Samsung work-lets mentored by Dr. Srikanth Prabhu and Dr. Mamatha Balachandra, have been awarded Certificate of Excellence as part of the Phase-1 Samsung PRISM program held during December 2019 to August 2020. The teams have also rewarded with Amazon vouchers worth \$900 for the work-lets based on software quality assurance and Internet of Things (IoT).



The classroom presentational slides submitted by Dr. Manjunath K. N for the Medical Image Computing and Computer-Assisted Intervention Society (MICCAI) Educational Challenge, an event conducted as part of MICCAI conference, was accepted and published on their website. The educational materials can be used by any researcher/presenter for teaching purposes without the author's permission.

Musica Supriya has presented a webinar session on "Effective use of Tools for Online Teaching" on 17th May 2021 hosted by Govt. First Grade college Hiriadka. She was one of the judges for Hack4cause 2.0 event organized by IEEE SBM during 1st to 2nd May 2021. She has also been acknowledged for the support offered to the institute NAAC team in automating the process of merging student data from alumni office and placement office of all UG branches.

Dr. Mamatha Balachandra has been appointed as International Cyber Security Data-mining Society (ICSDS) Governing Board Member for India. Her role includes supervising the ICSDS business affairs, encouraging researchers and reviewing method descriptions from the CDMC competition and research papers to the AICS workshop.

Dr. Adesh N. D, research alumnus of the department, has been awarded with the "Special Mention of the Jury" Award 2019 for his thesis titled "Design and Implementation of Efficient Techniques for Packet Scheduling and Congestion control in 4G LTE Network" in an event organized by the Board for IT Education Standards (BITES). The research was carried under the able guidance of Dr. Renuka A. With double the excitement, Dr. Renuka A has also been conferred with the "Special Mention of the Jury" Supervisor Award during the same event.



Dr. Srikanth Prabhu won second best paper award in Senior category at QUADRANS 2021 International Physiotherapy virtual conference held on 26th and 27th February in KLE institute of Physiotherapy Belagavi. He has also delivered a keynote address on 'Science Society and Technology, now and Into the Future' in the one week International conference 'Global Collaborations in Science, Technology, Engineering, Mathematics (STEM) and Humanities to advance the Frontiers of Knowledge and Innovation' held during 8th to 13th March 2021.

Dr. Radhakrishna Bhat has presented a webinar session titled "Parallel Programming Capabilities and Challenges" on 5th June 2021 hosted by First Grade Degree College, Honnavar.