

## Message from the COMSNETS Steering Committee

We are pleased to introduce the Eleventh edition of the International Conference on COMMunication Systems and NETworkS (COMSNETS). The conference has grown to be one of the flagship conferences of India supported by several organizations in India and abroad.

The COMSNETS conference continues its tradition of providing a rich technical program, with a mix of invited papers from recognized researchers (both academic and industrial), many high-quality technical papers derived from a pool of outstanding submissions, a poster session that provides insight into cutting edge research topics, a graduate forum where up-and-coming students have an opportunity to present their work to the broader community, and a Demos & Exhibits session where many start-ups, universities and established companies provide live examples of research-in-action with working prototypes and products. In addition, COMSNETS continues to hold several workshops that cover topics from the intersection of the Internet-of-Things (IoT) and Big Data, emerging topics in social networking, biomedical applications of computer networking, and new areas in research in intelligent transportation. We are delighted to share with you that three new workshops have been introduced in 2019, the new workshops cover Blockchain technology, 'Last Mile' communications for smart infrastructure, and, machine intelligence for networked data systems. Mobile India, the industrial track of the conference that is focused on the mobile economy, explores the emerging topic of machine learning in mobile services. The conference also continues a special Mentoring session for the 4th year, where young researchers can meet with established researchers for direct interaction. In addition, for the first time this year, a COMSJOB session will be held which allows sponsoring organizations to connect with potential recruits for open positions. We expect COMSJOB to be a big hit with students.

The primary conference continues to be held in Bangalore, and the Steering Committee is grateful for the long-standing support from the management and staff of the Chancery Pavilion hotel. The facilities provided have more than kept up with the annual growth of the conference. We are also pleased to have been able to hold a satellite COMSNETS Workshop in Jakarta, Indonesia for the second straight year in December 2018. We greatly appreciate the help received from Ms. Ade Melita and her team members for ensuring the success of the COMSNETS Jakarta workshop.

The COMSNETS 2019 organizing committee is composed of a strong mix of industry and academic researchers from around the world. Through their efforts, a strong technical program has been put together for this year's version of the conference. In particular, we are grateful to the General Co-Chairs - Prof. Sue Moon (Korea Advanced Institute of Science and Technology, Korea), Prof. Animesh Mukherjee (Indian Institute of Technology, Kharagpur, India) and Prof. Krishna Gummadi (The Max Planck Institute for Software Systems, Germany). We are indebted to the Technical Program Committee Co-Chairs - Dr. Ranjita Bhagwan (Microsoft Research, India), Prof. Rajesh Balan (Singapore Management University, Singapore), and Prof. Suman Banerjee (The University of Wisconsin at Madison, USA) for ensuring a very strong and vibrant technical program. Thanks to the efforts of the General Co-Chairs and the TPC Co-Chairs, COMSNETS 2019 has outstanding Keynote and invited speakers. The conference is delighted to welcome global thought leaders as keynote speakers -- Dr. Rakesh Agrawal (Data Insights Laboratories, USA), Prof. Anja Feldmann (Max Planck Institute for Informatics, Germany), Dr. Gautam Shroff (TCS Research & Innovation, India) and Dr. Jan Holler (Ericsson Research, Sweden). The conference organizing committee is also extremely grateful to the invited speakers gathered from across the globe for having agreed to share insights in their area of expertise and for enriching the technical program.

COMSNETS 2019 organizing committee has worked extremely hard and put together an outstanding program for this year's conference. We would like to thank Mrs. Chandrika Sridhar for her continued support of the conference as the finance and registration chair. Our special thanks go this year to Abhijit Mondal for his role as the Web Chair. Abhijit has played a key role this year and has worked extremely hard to ensure high-quality web pages. Our special thanks to the local arrangement co-chairs - Raj Sharma and Pooja Kadambi. Both Raj and Pooja have put in tremendous effort throughout the year. We would

like to express our appreciation for the efforts put in by Ananda Krishna and Rohit Verma. They bring in a lot of energy and enthusiasm to ensure a smooth conference.

COMSNETS 2019 boasts of seven excellent workshops in current areas. Our sincere thanks to all the workshop chairs and co-chairs for ensuring a very strong technical program. Our special thanks to Prasant Misra and Samar Shailendra (LastMileS Workshop), Vijay Gabale and Vinay Kolar (MINDS Workshop), Rohan D'Souza and Abhishek Appaji (NetHealth Workshop), Rishiraj Saha Roy and Saptarshi Ghosh (Social Networking Workshop), Vinay Ribeiro and Sayandeep Sen (Blockchain Workshop), Abhinav Kumar and Prem Prakash Jayaraman (WACI Workshop), C. S. Shankar Ram and Lavanya Marla (ITS Workshop). We would like to mention the outstanding contributions of Rohan D'Souza and Abhishek Appaji for raising fantastic sponsorship for the NetHealth workshop of COMSNETS 2019. Dr. V. Sridhar (IIIT Bangalore) and Dr. T K Srikanth (IIIT Bangalore) have been the brains behind Mobile India 2019 and we would like to thank them for their efforts and support.

Our special thanks to the Panel co-chairs Prof. Somali Chaterji (Purdue University, USA) and Akshay Uttama Nambi (Microsoft, India). The panel chairs have chosen diverse and exciting topics for the panel discussions; they have also ensured that all panels are packed to capacity. Our big thanks to the Poster co-chairs Prof. Antony Franklin (IIT Hyderabad, India) and Prof. Swarun Kumar (CMU, USA) for selecting a good number of high-quality poster papers that are spread over two days of the main conference. We would like to express our gratitude to the Mentoring Session co-chairs, Nova Ahmed (North South University, Bangladesh) and Dr. Nikhil Karamchandani (IIT Bombay, India), the Graduate Forum Co-Chairs, Bharadwaj Satchidanandan (Texas A&M University, USA) and Dr. Rijurekha Sen (IIT Delhi, India). Our very special thanks to Prof. Sandip Chakraborty (IIT Kharagpur, India) for having served as the Publications Chair of the conference. He has managed EDAS extremely well throughout the year and we are very grateful to him. The chairs of COMSJOB - Dr. Prasant Misra (TCS Research & Innovation, India) and Dr. Amit Kumar Saha (CISCO, India) need to be complemented for ensuring an exciting and a packed event in a very short time frame. The travel grant co-chairs - Dr. Malati Hedge (IISc Bangalore) and S. V. R. Anand (IISc Bangalore) have worked extremely hard and have ensured that almost all authors who have a paper at the conference are provided travel grants. We are thankful to the publicity co-chairs for widely publicizing the conference across the globe. Binbin Chen from Singapore has been extremely proactive in publicizing the conference.

The conference continues to benefit from many industrial sponsors and university partners. We give a special note of gratitude to CISCO - this year's Platinum Sponsor. CISCO has been a Platinum sponsor of the conference for several years now and has been an invaluable partner in its growth. We also are sincerely grateful to our Gold Sponsor, Qualcomm and Silver Sponsors, Microsoft, J. P. Morgan and Ericsson. Many of these companies have also sponsored and participated in the conference for several years. We are excited to welcome J.P. Morgan and Ericsson as a first-time Silver Sponsor for the conference. In addition, we greatly appreciate our Bronze Sponsors - Singapore Management University, Google, Flipkart, ABB, IBM Research, Bosch, InnAccel, Consensus, The Lemelson Foundation, the IEEE Humanitarian Activities Committee, Adobe and VMware. We would like to express our sincere appreciation to our Technical partner - Tata Consultancy Services (TCS), Humanitarian Non-Profit Partner - Aarogya Seva, WiFi partner - ARISTA, Online Media Partner - Your Story and Video partner - VideoKen.

We are delighted to have the University of Pennsylvania, Singapore Management University, Korea Advanced Institute of Science and Technology, IISc Bangalore, IIT Delhi, IIT Bombay, IIT Hyderabad, IIT Kharagpur, IIT Madras, IIIT Delhi, IIIT Bangalore, and the Dhirubhai Ambani Institute for Information and Communication Technology as university partners.

We are also delighted to continue our relationship with IEEE who are the technical co-sponsors of COMSNETS again through the IEEE Communications Society. We are grateful to ACM for their continued support, through the SIGCOMM and SIGMOBILE interest groups. SIGCOMM and SIGMOBILE along with LRN Foundation have also underwritten the student travel grants for the conference for many years. Our special thanks to ACM SIGMOBILE for announcing a USD \$5000 Student Travel Grant for COMSNETS 2019. This is in addition to the USD \$10,000 Student Travel Grant announced by ACM SIGCOMM. We greatly

appreciate the efforts of Prof. Roch Guerin (ACM SIGCOMM) and Prof. Marco Gruteser (ACM SIGMOBILE) for making this happen. We would like to express our sincere appreciate to Dr. B. M. Baveja and Ms. Tulika Pandey, from the Ministry of Electronics and Information Technology (MeitY), Government of India for their untiring efforts in ensuring a strong partnership with COMSNETS.

No conference can be a success without the efforts of the volunteers. We are extremely fortunate to have highly energetic volunteers from across the country. We would like to express our sincere thanks to the COMSNETS 2019 volunteers -- Madhumita Mallick, Prerna Arote, Anirudh Alameluvari, Adwaith Gautham, Sundar Anand, Mehul Sharma, Rohit HR, Yoghitha Ramamoorthi, Abhijit Mondal, Priyanka Mathikshara, Rohit Verma and Ovia Seshadri. We will hand over the conference to the volunteers on 7th January 2019!

We welcome you to COMSNETS 2019, and hope that you are able to take full advantage of all this conference has to offer.



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