




**2019 Second International Conference on  
Advanced Computational and Communication Paradigms  
(ICACCP 2019)**  
Organized by  
**Department of Computer Science and Engineering  
Sikkim Manipal Institute of Technology, Sikkim, India**  
**Date: February 25-28, 2019**



<b>ICACCP 2019 Program at a Glance (Tentative)</b>	
<b>Day 01</b>	<b>Date: 25<sup>th</sup> February 2019 (Monday)</b>
<b>09:00 AM Onwards</b>	<b>Registration @ C-Quad Reception Desk</b>  Pre-conference Tutorials (Industry Experts)
<b>09:30 AM - 10:30 AM</b>	Tutorial I (ACM Distinguished Lecture): <b>Scaling Up Next Generation Supercomputers</b> Dr. Valentina Salapura, Thomas J. Watson IBM Research Center, USA  Venue: Seminar Hall
<b>10:30 AM – 11:00 AM</b>	<b>Tea Break@ Seminar Hall</b>
<b>11:00 AM – 12:00 AM</b>	Tutorial II: <b>Evolutionary Multi-objective Optimization and Topological Data Analysis for Designing Innovative Products</b> Dr. Hamada Naoki, Artificial Intelligence Laboratory, Fujitsu Laboratories Ltd., Japan  Venue: Seminar Hall
<b>12:00 AM – 1:00 PM</b>	Tutorial III: <b>Applied Data Stream Analytics</b> Mr. Sumit Misra, RS Software (India) Limited, Kolkata, India  Venue: Seminar Hall
<b>01:00 PM – 02:00 PM</b>	<b>Lunch Break@ Marena</b>
<b>04:00 PM – 05:30 PM</b>	<b>Conference Inauguration @ Multipurpose Hall</b>
<b>05:30 PM – 6:00 PM</b>	<b>High Tea@ Multipurpose Hall</b>
<b>06:00 PM – 7:00 PM</b>	Plenary Talk: <b>Computational Biology: Foundations, Advances and Challenges</b> Prof. (Dr.) Sanghamitra Bandyopadhyay, Director, Indian Statistical Institute, Kolkata, India  Venue: Multipurpose Hall
<b>07:00 PM – 8:00 PM</b>	Keynote Talk I : <b>Difficulties in Performance Comparison of Evolutionary Multi-Objective and Many-Objective Optimization Algorithms</b> Prof. (Dr.) Hisao Ishibuchi, Southern University of Science and Technology, China  Venue: Multipurpose Hall
<b>08:00 PM – 8:30 PM</b>	<b>Instrumental Classical Music – Sarod</b>
<b>08:30 PM – 09:30 PM</b>	 <b>Banquet Dinner @Marena</b>





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<b>Day 02</b>		<b>Date: 26<sup>th</sup> February 2019 (Tuesday)</b>
<b>09:00 AM Onwards</b>	<b>Registration @ C-Quad Reception Desk</b>	
<b>09:30 AM - 10:30 AM</b>	Keynote Speech-II (ACM Distinguished Lecture): <b>Puzzle-based learning in Cyber Security Education</b> Prof. (Dr.) Dipankar Dasgupta, The University of Memphis, Memphis, USA  Venue: Seminar Hall	
<b>10:30 AM – 10:45 AM</b>	<b>Tea Break@ Seminar Hall</b>	
<b>10:45 AM – 11:45 AM</b>	Invited Talk-I (IEE Distinguished Lecture, Computer Society): <b>Secure Fog Computing for Smart Living</b> Prof. (Dr.) Bruce McMillin, Missouri University of Science and Technology, USA   Venue: Seminar Hall	
<b>11:45 AM – 12:45 PM</b>	Invited Talk-II: <b>Some Prospective Applications of Cognitive Radio in 5G Communication</b> Prof. (Dr.) Iti Saha Misra, Jadavpur University, Kolkata, India  Venue: Seminar Hall	
<b>01:00 PM – 02:00 PM</b>	<b>Lunch Break@ Marena</b>	
<b>02:00 PM – 04:00 PM 04:15 PM – 07:00 PM</b>	<b>Parallel International Symposium ISCMM 2019  Venue: Seminar Hall</b>	
<b>02:00 PM – 04:00 PM 04:15 PM – 07:00 PM</b>	<b>Track-V: Computer Vision and Image Processing   Venue: AP Lab</b> <b>Session Chairs:</b> Dr. Sekhar Mondal, Indian Institute of Engineering Science and Technology, Shibpur and Dr. Sourav De, Cooch Behar Government Engineering College, India	
<b>02:00 PM – 04:00 PM 04:15 PM – 07:00 PM</b>	<b>Track-IX: Electrical and Electronics Devices and Power Systems  Venue: MP Lab</b> <b>Session Chairs:</b> Dr. Singam Jayanthu, National Institute of Technology, Rourkela, India and Swarup Sarkar, Sikkim Manipal Institute of Technology	
<b>02:00 PM – 04:00 PM</b>	<b>Special Track-IX: Machine Learning Paradigms for Text Analysis and Bio-Signal Processing  Venue: PGR-I Lab</b> <b>Session Chairs:</b> Dr. Kamal Sarkar, Jadavpur University, Kolkata, India and Dr. Aakanksha Sharaff, National Institute of Technology, Raipur, India	
<b>02:00 PM – 03:00 PM</b>	<b>Track-I: Advanced Computational Paradigms  Venue: PGR-II Lab</b> <b>Session Chair:</b> Dr. Nibaran Das, Jadavpur University, Kolkata, India	





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<b>03:00 PM – 04:00 PM</b>	<b>Track-III: Cyber Security and Data Forensics   Venue: PGR-II Lab</b> <b>Session Chair: Dr. Debabrata Samanta, Dayananda Sagar Institute Of Technology, India</b>
<b>04:15 PM – 05:00 PM</b>	<b>Special Track-I: Computational Neuroscience, Cognition, Bio-Medical Engineering and Biotechnology   Venue: PGR-II Lab</b> <b>Session Chair: Dr. Tapan Kumar Gandhi, Indian Institute of Technology, Delhi</b>
<b>04:15 PM – 05:00 PM</b>	<b>Special Track-III: Internet of Things (IoT) and Blockchain  Venue: PGR-I Lab</b> <b>Session Chair: Dr. Anirban Das, University of Engineering &amp; Management, Kolkata, India</b>
<b>05:00 PM – 06:00 PM</b>	<b>Special Track-V: Big-Data Analytics and Social Networking   Venue: PGR-II Lab</b> <b>Session Chair: Ms. Mradula Singh, Senior Data Scientist, IBM Watson and AI, Bangalore</b>
<b>4:00 PM – 04:15 PM</b>	<b>Tea Break@ C-Quad</b>
<b>08:00 PM – 09:00 PM</b>	<b>Dinner @ Marena</b>





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<b>Day 03</b>	<b>Date: 27<sup>th</sup> February 2019 (Wednesday)</b>
<b>09:00 AM Onwards</b>	<b>Registration @ C-Quad Reception Desk</b>
<b>09:30 AM - 10:30 AM</b>	Invited Talk-III: <b>TBA</b> Dr. Tapan Gandhi, Indian Institute of Technology, Delhi, India  Venue: Seminar Hall
<b>10:30 AM – 10:45 AM</b>	<b>Tea Break @ Seminar Hall</b>
<b>10:45 AM – 11:45 AM</b>	Invited Talk: <b>Machine Learning and Data Science</b> Prof. (Dr.) Ujjwal Maulik, Jadavpur University, Kolkata, India  Venue: Seminar Hall
<b>11:45 AM – 12:45 PM</b>	Invited Talk-V (IEE Distinguished Lecture, I&M Society): <b>Intelligent Measurement Systems for Smart[er] Grids Control</b> Prof. (Dr.) Mihaela M. Albu, Politehnica University of Bucharest, Romania  Venue: Seminar Hall
<b>01:00 PM – 02:00 PM</b>	<b>Lunch Break @ Marena</b>
<b>02:00 PM – 04:00 PM 04:15 PM – 06:00 PM</b>	<b>Parallel International Symposium ISCOMM 2019  Venue: Seminar Hall</b>
<b>02:00 PM – 04:00 PM 04:15 PM – 06:00 PM</b>	<b>Track-VII: Adaptive Computation and Machine Learning  Venue: AP Lab</b> <b>Session Chairs:</b> Dr. Sreeparna Banerjee, West Bengal University of Technology, India and Dr. Hamada Naoki, Fujitsu Laboratories Ltd., Japan
<b>02:00 PM – 04:00 PM 04:15 PM – 06:00 PM</b>	<b>Track-II: Networking and Data Communications  Venue: MP Lab</b> <b>Session Chairs:</b> Dr. Himanshu Monga, Jawahar Lal Nehru Government Engineering College, Himachal Pradesh, India and Hiren K. D. Sarma, Sikkim Manipal Institute of Technology
<b>02:00 PM – 04:00 PM</b>	<b>Track-VI: Computational Intelligence   Venue: PGR-I Lab</b> <b>Session Chair:</b> Dr. Paramartha Dutta, Visva Bharati, University, Santiniketan, India
<b>02:00 PM – 04:00 PM</b>	<b>Track-IV: Signal Processing and Communication Engineering   Venue: A PGR-II Lab</b> <b>Session Chairs:</b> Dr. Iti Saha Misra, Jadavpur University, India and Dr. Sudhan Majhi, Indian institute of Technology, Patna, India
<b>04:15 PM – 06:00 PM</b>	<b>Special Track-IV: Next Generation Computing and Communication  Venue: PGR-II</b> <b>Session Chairs:</b> Dr. Jaya Sil, Indian Institute of Engineering Science and Technology, Shibpur and Dr. Hardeo Kumar Thakur, ManavRachana University, Faridabad, India
<b>4:00 PM – 04:15 PM</b>	<b>Tea Break @ C-Quad</b>





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<b>06:30 PM – 8:00 PM</b>	 <b>Cultural Program @ Open Theater</b>
<b>08:00 PM – 09:30 PM</b>	 <b>Gala Dinner @Marena</b>

<b>Day 04</b>	<b>Date: 28<sup>th</sup> February 2019 (Thursday)</b>
<b>09:00 AM Onwards</b>	<b>Registration @ C-Quad Reception Desk</b>
<b>9:30 AM – 10:30 PM 10:45 AM – 11:45 PM</b>	<b>Special Track-VIII: Geophysical Remote Sensing and Geographic Information System  </b> Venue: MP Lab <b>Session Chairs:</b> Dr. Saurabh Das, Indian Institute of Technology, Indore, India and Dr. Swastika Chakraborty, Sikkim Manipal Institute of Technology, India
<b>9:30 AM – 10:30 PM</b>	<b>Special Track-II: Human Computer Interaction, Mechatronics and Robotics </b> Venue: PGR I Lab <b>Session Chair:</b> Dr. Ratika Pradhan, Sikkim Manipal Institute of Technology, Sikkim, India
<b>10:30 AM – 10:45 AM</b>	<b>Tea Break @C Quad</b>
<b>9:30 AM – 10:30 PM</b>	<b>Special Track-VI: Material Science and Nano Technology </b> Venue: PGR II Lab <b>Session Chair:</b> Dr. Somenath Chatterjee, Sikkim Manipal Institute of Technology, India
<b>9:30 AM – 10:30 PM</b>	<b>Special Track-VII: Graph, Geometric Algorithms and Applications </b> Venue: PGR II Lab <b>Session Chair:</b> Dr. Biswajit Deb, Sikkim Manipal Institute of Technology, Sikkim, India
<b>9:30 AM – 10:30 PM 10:45 AM – 11:45 PM</b>	<b>Track-VIII: Industrial Applications </b> Venue: AP Lab <b>Session Chair:</b> Mr. Avik Bhattacharya, Ixia Solution Group – Keysight., India
<b>12:00 AM – 1:00 PM</b>	<b>Valedictory Session @ Seminar Hall</b>
<b>01:00 PM – 02:30 PM</b>	<b>Lunch Break @ Marena</b>

