

A Conclave on Data Science & Artificial Intelligence

October 27th, 2018

Organizing Committee

Prof. Subhasis Chaudhuri
Prof. Sunita Sarawagi
Prof. Shivaram Kalyanakrishnan
Prof. Manoj Gopalkrishnan

Workshop Management

IITB Research Park Foundation

Contact Details

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Programme Schedule

Time (Hrs.)	Programme
8:30 – 9:00	Registration with breakfast @ VENUE: Meluha – the Fern, Hiranandani Gardens, Powai
9:00 – 9:10	Welcome address & IIT Bombay overview Prof. Devang Khakhar Director, IIT Bombay Chair: Ms. M. Kameshwari
9:10 – 9:20	IITB Research Park Overview Prof. Rajesh Zele Professor-In-Charge, IITB Research Park Foundation Chair: Ms. M. Kameshwari
9:20 – 9:35	Talk by the Chief Guest Dr. Anil Kakodkar Former Director, Bhabha Atomic Research Centre (BARC) Chair: Ms. M. Kameshwari
9:35 – 9:55	Keynote by Prof. Sunita Sarawagi Department of Computer Science and Engineering, IIT Bombay Title: The Frontiers of Machine Learning Chair: Ms. M. Kameshwari
9:55 – 10:15	Keynote by Dr. Shivkumar Kalyanaraman Executive Leader, Digital Renewables Innovations, GE Power Conversion Title: Data Science and Industrial IoT, Industry 4.0 and Renewable Energy Chair: Prof. Sunita Sarawagi
10:15 – 11:15	Technical Session 1 - Machine Perception Session Chair: Prof. Amit Sethi Department of Electrical Engineering, IIT Bombay Talk by Prof. Amit Sethi Title: Cancer detection and beyond in gigapixel pathology

	<p>images</p> <p>Talk by Dr. Sujoy Kar, CMIO, Apollo Hospitals Title: AI-based cardiac risk score by Apollo Hospitals and Microsoft</p> <p>Talk by Prof. Biplab Banerjee, Department of Electrical Engineering, IIT Bombay Title: Image representation for few-shot learning, image retrieval, human action recognition, and satellite image analysis</p> <p>Talk by Prof. Animesh Kumar, Department of Electrical Engineering, IIT Bombay Title: Towards Data-Driven Sensing with a Location Unaware Mobile Sensor</p> <p>Talk by Prof. Suyash Awate, Department of Computer Science and Engineering, IIT Bombay Title: Medical Image Computing</p> <p>Talk by Prof. Ajit Rajwade, Department of Computer Science and Engineering, IIT Bombay Title: Compressed Sensing for Medical Image Acquisition</p> <p>Talk by Prof. Rajbabu Velmurugan, Department of Electrical Engineering, IIT Bombay Title: Machine Learning Applications in Video, Audio, and Speech Signal Processing</p>
11:15 - 11:45	Tea Break
11:45 - 12:00	<p>Short Talks by Industry</p> <p>Talk by Flytxt - Dr. Rahul Vyas, Head - Data Sciences Practice Title: Customer Analytics: Machine Learning (ML) to Artificial Intelligence (AI)</p> <p>Talk by Cognizant - Mr. Prashant Achanta, Head-Delivery (Automation Hub & Platform Assets Studio) Title: Enabling capability build out with research. Focus on software engineering & automation</p> <p>Chair: Ms. M. Kameshwari</p>
12:00 - 13:00	<p>Technical Session 2 - Language and Text Session Chair: Prof. Ganesh Ramakrishnan Department of Computer Science and Engineering, IIT Bombay</p> <p>Talk by Prof. Pushpak Bhattacharyya Director, IIT Patna Title: Low Resource Machine Translation</p>

	<p>Talk by Dr. Karthik Sankaranarayanan Senior Research Scientist in Artificial Intelligence at IBM Research Title: AI for Industries and Open Challenges with Language and Text</p> <p>Talk by Dr. Ashish Tendulkar Machine learning and Text Mining Specialist, Google Title: Fifteen India specific Text Analytics and Machine Learning Problems</p> <p>Talk by Prof. S. Sudarshan Department of Computer Science & Engineering, IIT Bombay Title: Fake news detection</p> <p>Talk by Prof. Ganesh Ramakrishnan Department of Computer Science and Engineering, IIT Bombay Title: Insights from two sequence-to-sequence modeling experiences: Automatic Question Generation and Text recognition in images</p>
13:00 - 14:00	Lunch
14:00 - 14:20	<p>Talk by Dr. Sanghamitra Bandyopadhyay Director, Indian Statistical Institute, Kolkata Chair: Prof. Subhasis Chaudhuri</p>
14:20 - 15:20	<p>Technical Session 3 - Predictive Analytics Session Chair: Prof. Manoj Gopalkrishnan Department of Electrical Engineering, IIT Bombay</p> <p>Talk by Prof. V. S. Borkar Department of Electrical Engineering, IIT Bombay Title: Getting around in a networked world</p> <p>Talk by Mr. Mahesh Madiyala, Director, Flipkart Title: Data Science for Demand Planning for E-commerce</p> <p>Panel Discussion Title: Predictive Analytics Panelists:</p> <ol style="list-style-type: none"> 1. Prof. Ravindra Gudi Department of Chemical Engineering, IIT Bombay 2. Prof. Nikhil Karamchandani, Department of Electrical Engineering, IIT Bombay 3. Mr. Pravesh Kriplani, IDFC Asset Management, Fund Manager 4. Mr. Rahul Fokane, Associate Partner, ZS 5. Dr. Subhojit Basu, Sr. Engineering Manager, Ola

15:20 – 15:45	Tea Break
15:45 – 16:45	<p>Technical Session 4 - Decision Making Session Chair: Prof. Shivaram Kalyanakrishnan Department of Computer Science and Engineering, IIT Bombay</p> <p>Talk by Prof. Shivaram Kalyanakrishnan Title: Decision Making</p> <p>Talk by Prof. Manjesh Hanawal, Inter Disciplinary Program in Industrial Engineering and Operations Research, IIT Bombay Title: Online Decision-Making in Uncertain Environments</p> <p>Talk by Prof. Ankur Kulkarni, Inter Disciplinary Program in Systems and Control Engineering, IIT Bombay Title: Regulating High Frequency Trading in the Indian Securities Market: Quantitative Approach using Agent- based Modeling</p> <p>Talk by Dr. Harshad Khadilkar, Scientist, TCS Research Title: Practical Reinforcement Learning for Managing Industrial Operations</p> <p>Talk by Dr. Bala Vamsi Tatavarthy, Senior Adviser, Ocean Dial Title: Scope for AI/ML in Investment Management</p>
16:45 – 17:25	<p>Panel Discussion on “Academia - Industry Together” Moderator: Prof. Swaroop Ganguly Department of Electrical Engineering, IIT Bombay</p> <p>Panelists:</p> <ol style="list-style-type: none"> 1. Prof. Subhasis Chaudhuri, Department of Electrical Engineering, IIT Bombay 2. Prof. Asim Tewari, Department of Mechanical Engineering, IIT Bombay 3. Dr. P Anandan, CEO, Wadhwani centre for AI 4. Dr. Raghavan Muralidharan, CTO, Tata Power SED 5. Mr. Ganesh Mahabala, Business Head - Supercomputing, South Asia, NVIDIA 6. Mr. Kaushik Mukherjee, Sr. Director & Head of Engineering, Flipkart
17:25 – 17:30	Vote of Thanks
17:30 - 18:30	Networking and High Tea on Terrace