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 Prof. Subhasis Chaudhuri Former Deputy Director, IIT Bombay
9:10 – 9:20	IITB Research Park Overview Prof. Rajesh Zele Professor-In-Charge, IITB Research Park Foundation
9:20 – 9:35	Talk by the Chief Guest Dr. Anil Kakodkar Former Director, Bhabha Atomic Research Centre (BARC)
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 images **Talk** by Dr. Sujoy Kar, CMIO, Apollo Hospitals

		Title: AI-based cardiac risk score by Apollo Hospitals and Microsoft **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 **Talk** by Prof. Animesh Kumar, Department of Electrical Engineering, IIT Bombay **Title:** Towards Data-Driven Sensing with a Location Unaware Mobile Sensor **Talk** by Prof. Suyash Awate, Department of Computer Science and Engineering, IIT Bombay **Title:** Medical Image Computing **Talk** by Prof. Ajit Rajwade, Department of Computer Science and Engineering, IIT Bombay **Title:** Compressed Sensing for Medical Image Acquisition **Talk** by Prof. Rajbabu Velmurugan, Department of Electrical Engineering, IIT Bombay **Title**: Machine Learning Applications in Video, Audio, and Speech Signal Processing
	11:15 – 11:45	Tea Break
	11:45 - 12:00	Short Talks by Industry **Talk** by **Flytxt** - Dr. Rahul Vyas, Head - Data Sciences Practice **Title:** Customer Analytics: Machine Learning (ML) to Artificial Intelligence (AI) **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 Chair: Ms. M. Kameshwari
	12:00 - 13:00	**Technical Session 2** - Language and Text Session Chair: Prof. Ganesh Ramakrishnan Department of Computer Science and Engineering, IIT Bombay **Talk** by Prof. Pushpak Bhattacharyya Director, IIT Patna **Title:** Low Resource Machine Translation **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 **Talk** by Dr. Ashish Tendulkar Machine learning and Text Mining Specialist, Google **Title:** Fifteen India specific Text Analytics and Machine Learning Problems **Talk** by Prof. S. Sudarshan Department of Computer Science & Engineering, IIT Bombay **Title:** Fake news detection **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
	13:00 - 14:00	Lunch
	14:00 – 14:20	**Talk** by Dr. Sanghamitra Bandyopadhyay Director, Indian Statistical Institute, Kolkata Chair: Prof. Subhasis Chaudhuri

	14:20 – 15:20	**Technical Session 3** - Predictive Analytics
		Session Chair: Prof. Manoj Gopalkrishnan
		Department of Electrical Engineering, IIT Bombay
		
		Talk by Prof. V. S. Borkar
		Department of Electrical Engineering, IIT Bombay
		Title: Getting around in a networked world
		
		Talk by Mr. Mahesh Madiyala,
		Director, Flipkart
		Title: Data Science for Demand Planning for E-commerce
		
		Panel Discussion
		Title: Predictive Analytics
		Panelists:
		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	**Technical Session 4** - Decision Making

		Session Chair: Prof. Shivaram Kalyanakrishnan Department of Computer Science and Engineering, IIT Bombay **Talk** by Prof. Shivaram Kalyanakrishnan **Title:** Decision Making **Talk** by Prof. Manjesh Hanawal, Inter Disciplinary Program in Industrial Engineering and Operations Research, IIT Bombay **Title:** Online Decision-Making in Uncertain Environments **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 **Talk** by Dr. Harshad Khadilkar, Scientist, TCS Research **Title:** Practical Reinforcement Learning for Managing Industrial Operations **Talk** by Dr. Bala Vamsi Tatavarthy, Senior Adviser, Ocean Dial **Title:** Scope for AI/ML in Investment Management
	16:45 – 17:25	**Panel Discussion** on "**A**cademia - **I**ndustry Together" Moderator: Prof. Swaroop Ganguly Department of Electrical Engineering, IIT Bombay Panelists: 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