CoRe-2019

IGIDR PhD. Colloquium, November 5-8, 2019
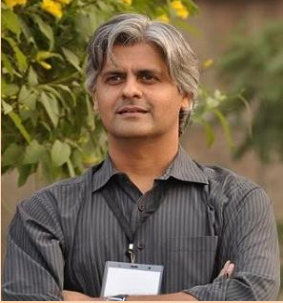
Sandeep Juneja

Dr. Sandeep Juneja is currently Professor and Dean of the School of Technology and Computer Science at the Tata Institute of Fundamental Research, Mumbai. He has a PhD. in Operations Research from Stanford University, USA. He is Associate Editor of Stochastic Systems and holds multiple patents in the area of computational sciences. His research interests lie in Applied Probability including Sequential Learning, Mathematical Finance, Monte Carlo Methods and Game Theoretic analysis of Queues.

Keynote Lecture: Learning Optimal Sequential Decisions using Stochastic Multi-Arm Bandit Methods

Many sequential decision making problems can be viewed in a stochastic multi-armed bandit framework. This comprises a finite number of arms, or equivalently, probability distributions. These distributions are not known but can be independently sampled and each sample results in a random reward. The objective is to sequentially sample these arms to maximize the average reward. Alternatively, the interest may be to sample them to quickly identify the arm with the largest mean reward. Applications of such techniques are myriad: from identifying the most effective drug for a medical condition, to advertisements for display to an online customer, to trading strategies or portfolios to invest in, among others.

G. Sivakumar

Dr. G. Sivakumar is currently Professor at the Computer Science and Engineering Department at the Indian Institute of Technology, Bombay. He has a PhD. in Computer Science from University of Illinois at Urbana-Champaign, USA. His main area of interest is in the various applications of logic in computer science. His current research focuses on formal verification of safety critical real-time systems, for which a Centre has been set up at IIT Bombay. He has served as a member of IIT Bombay's Board of Governor's (2006-2007) and on the Governing Council of IDRBT since 2005. He was a Founder Member of the Open Source Software Resource Centre (with IBM and CDAC) and has chaired the Committee on Interoperability Framework for Open Standards in E-governance. He serves on several Technology Advisory Committees including those of RBI, NPCI, CCIL, NSDL and SEBI.

Special Lecture: Technology Trends: Present and Future Drivers

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Bappaditya Mukhopadhyay

Dr. Bappaditya Mukhopadhyay is Professor and Director of the Post Graduate Programme in Business Analytic at Great Lakes Institute of Management, Gurgaon. He has a PhD. in Financial Economics from the Indian Statistical Institute, Delhi. He is the Managing Editor of Journal of Emerging Market Finance and Journal of Infrastructure and Development. He is also a Special Invitee on the Board for Risk Management Committee, Punjab National Bank and Member Index Committee, NCDEX.

Special Lecture: Big Data to Solve Local Problems: Climate Change Adaptation in Sundarbans

The Sundarbans poses a unique challenge to policy makers owing to rising sea level. A large part of the area will be inundated and hence a climate adaption strategy needs to be in place. While there is a significant discussion on this, what often escape the discourse are extremely local level shocks. Although such shocks are confined to a narrow geographical area, given the population density of the place, they affect a significant number of households. Preventing or mitigating such local level disasters need micro level data with minimum lag. This paper shows the usage of satellite imagery to achieve both these objectives. With real time data availability, one can map various villages, monitor their economic activities (primarily agriculture) and create a vulnerability mapping.

S. M. Pujar

Dr. S.M. Pujar is Chief Librarian at the Indira Gandhi Institute of Development Research, Mumbai. He has a PhD. in Library and Information Science from Karnataka University, India. He has undertaken various collaborative projects in association with Institute of Development Studies, Sussex, United Kingdom. He is also the recipient of IFLA/ALP and Commonwealth Professional Fellowships. He is a regular contributor to the Annals of Library and Information Studies.

Special Lecture: Resources, Reference Management and Research Metrics

Research writing involves identification of published literature and evidences to support an idea or point of view on a given research topic. It requires an effective organization of collected references to credit the original sources of information while writing an article or thesis. These practices help avoid potential plagiarism and better citation management. Citations further help in quantitatively measuring the impact of research and enable higher academic accomplishments for researchers. This talk covers sources of information, reference management tools and delves on research metrics.