The First RBC-DSAI workshop on recent progress in data science and Artificial Intelligence 10th November 2017, IIT Madras, Chennai, India

Poster Presentation Topics

- 1. Identification of output-error (OE) models using QZ algorithm, Deepak Maurya, Arun K Tangirala and Shankar Narasimhan
- 2. Optimal observable PMU placement minimizing estimation error, Bala Shyamala Balaji, Satya Jayadev P, Sridharakumar Narasimhan
- 3. Prediction error based clustering approach for multiple-model learning using statistical testing,
- 4. Chinta Sivadurgaprasad, Abhishek Sivaram and Raghunathan Rengaswamy
- 5. Iterative Multiprecision Classifiers,
 Patanjali SLPSK, Neel Gala, Kamakoti.V. and Anand Raghunathan.
- 6. IoT Enabled water network monitoring and control,
 Saravanan Chinnusamy, Prasanna Mohandoss, Partha Paul, Sridharakumar
 Narasimhan
- 7. Distributed Approximation Algorithms for Maximum Likelihood Learning in Markov Random Fields,
 - Peruru Subrahmanya Swamy, Radha Krishna Ganti, Krishna Jagannathan
- 8. A novel topic modeling modeling based weighting framework for class imbalance learning,
 - Sudarsun Santhiappan, Jeshuren Chelladurai, Balaraman Ravindran.
- 9. Performance Guarantees in Cloud using Predictive Techniques, Durgesh Singh, Ramkrishna Pasumarthy
- 10. An Analysis of Imbalanced Data Classification in relation to Sample Hardness,
 - Satya Jayadev P, Nirav Bhatt
- 11. Online reconstruction of causal graphs from data with missing observations, Piyush Agarwal, Arun K Tangirala
- 12. DCEIL: Distributed Community Detection with CEIL Score, Akash Jain, Rupesh Nasre, B Ravindran
- 13. A generalized framework for detection of oscillation with their frequencies and location(s),
 - Mohd Faheem Ullah, Deepak Maurya, Raghunathan Rengaswamy.

- 14. Modeling and characterization of seismic noise, Kanchan Aggarwal, Arun K Tangirala and Siddhartha Mukhopadhyay
- 15. Integrating first principles modeling with data science a case study, Venkataraman N V, Deepak Maurya, Raghunathan Rengaswamy
- 16. Scalar Correlation Measures for Modeling Multivariate Processes, Sudhakar Kathari and Arun K. Tangirala.
- 17. Learning to Multi-Task by Active Sampling,
 Sahil Sharma, Ashutosh Kumar Jha, Parikshit S Hegde, Balaraman Ravindran
- 18. Optimal operation of water distribution systems: An experimental study, Saravanan Chinnusamy, Prasanna Mohandoss, Meena Kaveri, Varghese Kurian, Sridharakumar Narasimhan
- 19. Exhaustive identification of sub-networks from metabolic networks, Aarthi Ravikrishnan, Meghana Nasre and Karthik Raman
- 20. Designing Modular Gene Circuits, Saransh Umale, Pradeep Natarajan, Karthik Raman, Raghunathan Rengaswamy
- Disease Module Identification and Analysis,
 Beethika Tripathi, Balaraman Ravindran, Karthik Raman
- 22. Encode-Attend-Refine-Decode: Enriching Encoder Decoder Models with Better Context Representation Preksha nema, Shreyas Shetty, Mitesh Khapra, Balaraman Ravindran, Anirban Laha, Parag Jain, Karthik Sankaranarayanan
- 23. HOPF: A Higher Order Propagation Framework for Semi-supervised Deep Collective Classification
 Priyesh Vijayan, Yash Chandak, Mitesh Khapra, Balaraman Ravindran.
- 24. ISS-NMF: Improved Semi-Supervised learning for node classification with Non-Negative Matrix Factorization,
 Tarun Kumar, Priyesh Vijayan, Anasua Mitra, Amit Awekar, Balaraman Ravindran.
- 25. Droplet microfluidics meets data sciences: insights into emulsion stability Pavitra Sivakumar, Danny Raj M, Raghunathan Rengaswamy
- 26. RAIL: Risk-Averse Imitation Learning,
 Anirban Santara, Abhishek Naik, Balaraman Ravindran, and others.
- 27. Vehicle Classification on Low-resolution and Occluded images: A low-cost labeled dataset for augmentation,

- Deepak Mittal, Mudamala Avinash Reddy, Gitakrishnan Ramadurai, Kaushik Mitra, Balaraman Ravindran.
- 28. DyVEDeep: Dynamic Variable Effort Deep Neural Networks
 Sanjay Ganapathy, Swagath Venkataramani, Balaraman Ravindran and
 Anand Raghunathan. Presented by: Athindran R
- 29. Generalized Random Surfer Pair Models
 Sai Kiran N, Balaraman Ravindran, Venkatesh Ramaiya
- 30. Learning to Repeat: Fine Grained Action Repetition for Deep Reinforcement Learning,
 - Rahul Ramesh, Sahil Sharma, Aravind Lakshminarayanan, Balaraman Ravindran
- 31. Identification of Reaction Systems using Spectroscopic Measurements and Micro-reactors.
 - Manokaran V, Sridharakumar Narasimhan, Nirav Bhatt
- 32. Exploration for Multi-task Reinforcement Learning with Deep Generative Models
 - Manika Agarwal , Sai Praveen Bangaru, J S Suhas, Balaraman Ravindran
- 33. SILC: Smoother Imitation with Lipschitz Costs
 Akshat Dave, Sapana Chaudhary, Balaraman Ravindran
- 34. Role Discovery in Graphs using Global Features: Algorithms, Applications and a Novel Evaluation Strategy,
 - Pratik V. Gupte, Balaraman Ravindran, Srinivasan Parthasarathy, Sankaran Vaidyanathan
- 35. NBF-PEG: Network-Based Features to Predict Essential Genes across diverse organisms. Authors:
 - Karthik Azhagesan, Karthik Raman and Balaraman Ravindran.
- 36. EPOpt: Learning Robust Neural Network Policies using Model Ensembles, Rohan Saphal, Rajeswaran A, Ghotra S, Balaraman Ravindran, and Levine S
- 37. Determining the sample size for split tests by optimizing the expected cumulative regret.
 - Pitchai Kannu Balaji and Nandan Sudarsanam

- 38. Mining Trajectory Data for Smart City Applications.

 Nandani Garg, Sayan Ranu and Gitakrishnan Ramadurai.
- 39. Identification of tumor suppressor genes and oncogenes,
 Malvika Sudhakar, Karthik Raman and Raghunathan Rengaswamy
- 40. HMM Based Clustering on Loan Repayment Data: Insights into Financial Behavior and Intent to Repay,
 - Dibu John Philip, Nandan Sudarsanam and Balaraman Ravindran.