



Detailed Schedule February 11

Session 1 [11-Feb-2021:
930AM-1030AM: Mrinal
Kumar]

Contributory Talks

- Sriram Bhyravarapu and Subrahmanyam Kalyanasundaram. Combinatorial Bounds for Conflict-free Coloring on Open Neighborhoods
- Girija Limaye. Envy-freeness and Relaxed Stability : Hardness and Approximation Algorithms
- Nikhil Gupta, Chandan Saha and Bhargav Thankey. A Super-Quadratic Lower Bound for Depth Four Arithmetic Circuits

Session 2 [11-Feb-2021:
1100AM-1230PM:
Anand Deshpande]

Early Career Researcher Awardee Presentations

- Uday Reddy Bondhugula
- Saket Saurabh



Session 3 [11-Feb-2021:
1230PM-0130PM:
Saket]

**Poster via Speed Talks &
Lunch Break**

Session 4 [11-Feb-2021:
130PM-300PM:
Meenakshi]

**Panel Discussion: Diversity
and Inclusivity in Research**

- Neeldhara Misra – Moderator
- Ranjita Bhagwan
- R. Ramanujam
- Venkatakrishnan Ramaswamy

Session 5 [11-Feb-2021:
300PM-400PM:
Meenakashi]

Contributory Talks

- Arpita Patra and Ajith Suresh. BLAZE: Blazing Fast Privacy-Preserving Machine Learning
- Arpita Patra, Thomas Schneider, Ajith Suresh and Hossein Yalame. ABY2.0: Improved Mixed-Protocol Secure Two-Party Computation
- Supratim Shit, Rachit Chhaya, Jayesh Choudhari and Anirban Dasgupta. Streaming Coresets for Symmetric Tensor Factorization



Session 6 [11-Feb-2021:
430PM-700PM:
Venkatesh Raman]
Early Career Researchers Talks

- Kuldeep S. Meel (NUS, Singapore)
- Gayathri Ananthanarayanan (IIT Dharwad)
- Praphul Chandra (KOINEARTH)
- Rijurekha Sen (IIT Delhi)
- Divy Thakkar (Google Research)

**Detailed
Schedule
February 12**

Session 1 [12-Feb-2021:
900AM-1000AM: Saket
Saurabh]
ARCS Keynote Presentation

- Sunita Sarawagi (IIT, Bombay): Machine Learning Models: The Challenges of Real-World Deployment



Session 2 [12-Feb-2021: 100AM-1100AM: Swaprava Nath] **Contributory Talks**

- Tirthankar Ghosal, Vignesh Edithal, Asif Ekbal, Pushpak Bhattacharyya, Sameer Chivukula and George Tsatsaronis. Is Your Document Novel? Let Attention Guide You. An Attention Based Model For Document Level Novelty Detection
- Lokesh Siddhu, Rajesh Kedia and Preeti Ranjan Panda. Leakage Aware Dynamic Thermal Management of 3D Memories
- Dileep Kumar Pattipati, Rupesh Nasre. and Sreenivasa Kumar P. Ontology-based Program Analysis Framework
- Utpal Bora, Santanu Das, Pankaj Kukreja, Saurabh Joshi, Ramakrishna Upadrasta and Sanjay Rajopadhye. LLOV: A Fast Static Data-Race Checker for OpenMP Programs

Session 3 [12-Feb-2021: 1130AM-1230PM: Abir De] **Contributory Talks**

- Kartik Sharma, Iqra Altaf Gillani, Sourav Medya, Sayan Ranu and Amitabha Bagchi. Balance Maximization in Signed Networks via Edge Deletions
- Sahil Manchanda, Akash Mittal, Anuj Dhawan, Sourav Medya, Sayan Ranu and Ambuj Singh. GCOMB: Learning Budget-



constrained Combinatorial Algorithms over Billion-sized Graphs

- Aasheesh Dixit, Garima Shakya, Suresh Kumar Jakhar and Swaprava Nath. Egalitarian and Congestion Aware Truthful Airport Slot Allocation Mechanism
- Rajesh Kedia, Shikha Goel, M. Balakrishnan, Kolin Paul and Rijurekha Sen. Design Space Exploration of FPGA Based System with Multiple DNN Accelerators

Session 4 [12-Feb-2021: 1230PM-0130PM: Saket Saurabh]

Paper presentation of short contributed papers

- Varshini Subhash, Karran Pandey and Vijay Natarajan. *GPU Parallel Computation of Morse-Smale Complexes*
- Koundinya Koorapati, Prem Kumar Ramesh, Sairam Veeraswamy, Rubini P and Usha Narasappa. *Cohesive Context-Aware Ontology for IoT Deployed with SDDC*
- Charu Sharma and Manohar Kaul. *Self-Supervised Few-Shot Learning on Point Clouds*

Q and A

- Neeldhara Misra and Aditi Sethia. *Fair Division is Hard even for Amicable Agents*
- Stanly Samuel, Kaushik Mallik, Anne-Kathrin Schmuck and Daniel Neider. *Resilient Abstraction-Based Controller Design*
- Arijit Nath, Sukarn Agarwal and Hemangee Kapoor. *Reuse Distance based Victim Cache*



for Effective Utilisation of Hybrid Main Memory System

Q and A

- Rachit Chhaya, Anirban Dasgupta and Supratim Shit. *On Coresets For Regularized Regression*
- Shivangi Singhal, Anubha Kabra, Mohit Sharma, Rajiv Ratn Shah and Ponnurangam Kumaraguru. *SpotFake+: A Multimodal Framework for Fake News Detection via Transfer Learning*
- Parwat Singh Anjana, Hagit Attiya, Sweta Kumari, Sathya Peri and Archit Somani. *Efficient Concurrent Execution of Smart Contracts in Blockchains using Object-based Transactional Memory*

Q and A

Session 5 [12-Feb-2021: 0230PM-0400PM: Hemant Pande] **Institutional Awareness Panel**

- **Title: Industry research in post pandemic world**
- Manish Gupta (Google Research) – Moderator
- Gautam Shroff (TCS Research)
- Pari Natarajan (Zinnov)
- Shalini Kapoor (IBM AI Apps)
- Sriram Rajamani (Microsoft Research India)
- Suparna Bhattacharya (HP Enterprise)



Session 6 [12-Feb-2021:
0400PM-0500PM:
Meenakshi]
**ACM-India Doctoral
Dissertation Awardee
Presentations**

- Shikhar Vashishth (IISc, Bangalore / CMU, USA), Neural Graph Embedding Methods for Natural Language Processing
- Roohani Sharma (IMsc, Chennai / MPII, Germany), Advancing the Algorithmic Toolkit for Parameterized Cut Problems

Session 7 [12-Feb-2021:
0530PM-0630PM:]
Ask Me Anything Session

- Roohani Sharma
- Saket Saurabh
- Sayan Ranu
- Mrinal Kumar