

3rd IEEE Workshop on Parallel and Distributed Processing for Computational Social Systems (ParSocial 2018)

Welcome to the Third IEEE Workshop on Parallel and Distributed Processing for Computational Social Systems (ParSocial). In response to recent events, one of the foci of ParSocial 2018 is on the problem of modeling malicious actors on Social Media. As part of this, Dr. V. S. Subrahmanian, from Dartmouth College, provides the keynote talk titled “Bots, Socks, and Vandals: Advances in Identifying Malicious Actors in Social and Online Platforms”. The talk is based on research conducted as part of the DARPA Twitter Bot Challenge, and discusses the importance of semantics and network related factors to the classification of various social media users. A related position paper by Thuraisingham *et al*, titled “Integrating Cyber Security and Data Science for Social Media: A Position Paper” discusses emerging trends with the application of data science methods in the cyber security domain and vice versa, with an emphasis on social media applications. One of the research papers by Santos *et al*, titled “Handling Vertex Deletions in Memory Scalable Anytime Anywhere Algorithms for Large and Dynamic Social Networks”, looks at the problem of formulating memory scalable designs for large and dynamic data, with an emphasis on network centrality calculations and dynamic network node deletions. Finally, the research paper by Pal *et al* titled “Using Activity Patterns to Place Electric Vehicle Charging Stations in Urban Regions”, provides approximation algorithms for the NP-hard problem of optimizing charging stations for electric vehicles, and introduces a methodology for formulating urban planning policies for their deployment.

We thank the distinguished members of our steering committee for their help and guidance. We also take this opportunity to thank the members of the program committee for conducting a rigorous and timely review of the papers. We also acknowledge the support of the IPDPS workshop and other committees, and IEEE Computer Society in organizing this workshop.

Workshop Co-Chairs

- Eunice E. Santos, Illinois Institute of Technology, USA
- John Korah, Illinois Institute of Technology, USA

Steering Committee

- George Cybenko, Dartmouth College, USA
- James A. Hendler, Rensselaer Polytechnic Institute, USA
- Eugene Santos Jr., Dartmouth College, USA
- V. S. Subrahmanian, Dartmouth College, USA

Program Committee

- Nitin Agarwal, University of Arkansas at Little Rock, USA
- Ankit Agrawal, Northwestern University, USA
- Aron Culotta, Illinois Institute of Technology, USA
- Hien Nguyen, University of Wisconsin-Whitewater, USA
- Jonathan Ozik, Argonne National Laboratory, USA
- Adam Sheya, University of Connecticut, USA
- Kevin S. Xu, University of Toledo, USA