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RAMMMNets 2016

Submitted by Anonymous on Wed, 12/16/2015 - 10:25am

Apr 23, 2016 7:00 am - Apr 25, 2016 6:00 pm CEST

RAMMMNets 2016: Workshop on Real-time Analytics in Multi-latency, Multi-Party, Metro-scale Networks

Co-Chairs: Chaitan Baru, U.S. National Science Foundation Stephen Dennis, U.S. Department of Homeland Security

Background

Many Internet-of-Things applications require real-time analytics for maintaining situational awareness and making decisions. Most real-world IoT environments will involve (a) multi-latency networks, due to heterogeneous network interconnections and (b) multi-party networks, since different IoT subnets may be deployed and/or owned by different entities. In this workshop, we will focus on IoT networks in metropolitan-scale areas, aka ?metro-scale networks?, that are expected to be widely prevalent in Smart City and Smart and Connected Community environments. Algorithms for real-time analytics in these environments must deal with complexities including, incomplete and missing data, e.g., due to subnet outages; erroneous data, e.g., due to hardware, network, software errors; and/or compromised data, e.g., due to cyber attacks. Applications will need to make decisions and take actions under these conditions.

TOPICS OF INTEREST

Topics include, but are not limited to:

- Concepts and methods for multi-latency, multi-party networks: defining the scope of

the problem
- Concepts, models and methods for identifying erroneous vs compromised data
- Application use cases
- Decision making with imperfect data, including ?undo? concepts in decision making
- Real-world use cases and application scenarios
- Identification of theoretical as well as policy issues
- Creating regional/national/international research platforms/testbeds
- Developing curriculum and courseware for education and training

WORKSHOP ORGANIZATION

PC Co-Chairs

- Chaitan Baru, Senior Advisor for Data Science, Computer and Information Science and Engineering (CISE) Directorate, U.S. National Science Foundation
- Stephen Dennis, Innovation Director, Homeland Security Advanced Research Projects Agency (HSARPA), Science and Technology Directorate, U.S. Department of Homeland Security

Program Committee (under construction)

- Stanley Ahalt, RENCI, UNC-Chapel Hill
- Roger Barga, Amazon Kinesis
- Milind Bhandarkar, Ampool
- Charlie Catlett, Argonne National Labs
- Bill Howe, University of Washington
- Susanna Pirttikangas, University of Oulu

Important Dates

- **Call for Papers:** Friday, December 18, 2015
- **Last Call for Papers:** Thursday, January 7, 2016
- **Paper Submission Deadline:** Wednesday, January 20, 2016
- **Author Notification:** Friday, February 5, 2016
- **Camera Ready Copy and Conference Registration:** Monday, February 22, 2016

Sync this event to your calendar

CPS Domains Concurrency and Timing Real-time Systems Testing Platforms Modeling Critical Infrastructure Real-Time Coordination Validation and Verification CPS Technologies Foundations 2016 Workshop