

Special Session on Big Data Processing & Internet of Things Processing

Co-located with IEEE ATSIP'2016

21-23 March 2016, Monastir-Tunisia

http://www.atms-researchgroup.com/atsip_2016.php

Special Session Chair:

- Dr. Abdelkrim Bouramoul, Constantine2 University, MISC Laboratory, Algeria

(email: abdelkrim.bouramoul@univ-constantine2.dz)

Scope:

A confluence of many technological advances marks the advent of a new networked systems that have been enabling sensing, predicting and controlling of physical world with information technology. In fact, various industries, academics, government organizations and other stakeholders must redesign their business models and processes along Internet of Things (IoT) paradigm.

The Internet of Things in many applications would result in generation of large amounts of data, i.e. Big Data. The complexity of this data, for example due to its realtime nature and heterogeneity is expected to surpass much of today's scientific knowhow and will require a multi-disciplinary approach in generating methods, tools and algorithms to exploit its potential in terms of value such as generating novel business models impacting entire industry sectors.

The session Big Data Processing & Internet of Things Processing offers an interdisciplinary venue to discuss challenges, technologies, and emerging directions in system design and implementation that pertain to the Internet of Things and Big Data. Many sub-systems need to come together to address the needs of current and future applications. These subsystems extend from cloud back-ends to cyber-physical front ends. Massive IoT data, reliability, security, robustness, correctness, and timeliness considerations in new medical, social, environmental, energy, and automation applications must be supported by advances in cloud resource management, network protocols, and smart embedded devices.

The session welcomes papers on the following (but not limited to) research topics:

- Convergence of IoT, Big Data and new networked systems
- IoT Design and Implementation
- Interoperability, Integration, and Interconnection of IoT Systems
- Interoperable and open Big Data models for IoT
- Standard interoperability mechanisms for the IoT
- IoT cloud computing and management platform for connected objects
- Security, liability and privacy
- IoT and Mobile Edge Computing
- Real-life Case Studies of Value Creation through Big Data Analytics
- Algorithms and Systems for Big Data Search
- Representation Formats for Multimedia Big Data
- Cloud Computing Techniques for IoT and Big Data
- Big Data in Smart Planet Solutions
- Anomaly Detection in Very Large Scale Systems
- Networking and system architectures, scaling, implementation challenges

Special Session Chair:

- Dr. Abdelkrim Bouramoul, Constantine2 University, MISC Laboratory, Algeria

(email: abdelkrim.bouramoul@univ-constantine2.dz)

Special Session Co-chairs

- Dr. Djamel Benmerzoug, Constantine2 University, LIRE Laboratory, Algeria

(email: djamel.benmerzoug@univ-constantine2.dz)

- Dr. Imed Riadh FARAH, ISAMM, Tunis, Tunisie

(email : imed.farah@telecom-bretagne.eu)

Tutorial with Round Table

- Professeur Yahya SLIMANI, ISAMM, Tunis, Tunisie

Technical Program Committee Members:

- Dr. Abdelkrim Bouramoul, Constantine2 University, MISC Laboratory, Algeria
- Dr. Djamel Benmerzoug, Constantine2 University, LIRE Laboratory, Algeria
- Dr. Imed Riadh FARAH, ISAMM, Tunis, Tunisia
- Pr. Yahya SLIMANI, ISAMM, Tunis, Tunisia
- Pr. Yu Zhang, Trinity University, USA
- Pr Mohamed Chawki Batouche, Constantine2 University, Algeria
- Pr. Aomar OSMANI, Laboratoire D'informatique de Paris nord, France

Paper Submission

Authors are invited to submit full-length papers of no more than six pages including results, figures and references. Papers will be accepted only by electronic submission through the conference web site:

http://www.atms-researchgroup.com/paper_submission.php

Submissions must be original and should not have been published previously or be under consideration for publication while being evaluated for this conference. Accepted and presented papers will be submitted for inclusion into IEEE Xplore as well as other Abstracting and Indexing (A&I) databases.

Selected papers will be considered for publication (pending) at scientific journals in Big Data and Internet of Things topics (currently in discussion with ELSEVIER, SPRINGER and others).

Important Dates:

- Paper submission deadline: December 15th, 2015
- Acceptance Notification: January 15th, 2016
- Camera Ready: February 1st, 2016
- Author's Registration Deadline : February 15th, 2016

Contact:

- For any query related to the special session, please contact :
Dr. Abdelkrim Bouramoul at abdelkrim.bouramoul@univ-constantine2.dz