Call for Papers

CorNer: Communication for Networked Smart Cities

ISWCS 2016 Website: http://iswcs2016.org/welcome

Symposium Chairs:

Syed Ali Hassan, National University of Sciences and Technology, Pakistan
Nalin Jayakody, University of Tartu, Estonia
Syed Ali Raza Zaidi, University of Leeds, UK
Ali Sadri, Intel Corp., USA

CFP: By 2050, urban population internationally will have increased by 2.8 billion people. Moreover, at the current rate of carbon emissions, global temperatures will have risen by 2º C from pre-industrial levels. Therefore, there is an urgent need to plan the cities of the future for sustainability. As a major agent for promoting a quality of life compatible with a resource efficient economy, the smart city phenomenon has recently captured the imagination of the academia and the industry alike. Since the Internet of things (IoT) is expected to be a primary driving force for future cities, advanced communication techniques will play a pivotal role in facilitating real-time data acquisition and utilization from distributed sensors. However, future cities will also have to operate within the constraints of the national economy and available power resources. Consequently, the challenges in the realization of smart cities are many and varied, such as low energy consumption requirement, constrained bandwidth and budgetary limitations. In order to overcome these hurdles, it is essential that new concepts and theories for optimizing the network in energy, spectral and monetary terms are presented to achieve a robust environment monitoring and sustainable transportation network, among other provisions. This workshop is aimed at furthering this effort by forging collaborations through the presentation of state-of-the-art research endeavors by scholars from across the globe. The participants will have the opportunity to share their findings with the academic community at large as well as to form collaborations to jointly investigate new aspects of smart cities. The topics for the workshop include, but are not limited to,

- Enabling smart city verticals via 5G
- IoT and autonomous systems
- Smart network densification
- Big data and cloud computing in smart cities
- CR inspired radio solution for smart cities
- Energy harvesting technologies

- Communication and control for smart grid
- Novel network architecture design
- Cooperative communications
- Energy-efficiency and spectral-efficiency
- Machine-to-machine communications
- Safety, security, and privacy
- Green communications and computing
- Resource-efficient cross-layer optimization
- mmWave and Massive MIMO Design
- Antennas design and channel modeling
- Interference management in smart networks
- Smart transportation systems and infrastructure
- Applications, deployments, test-beds and experimental experience for communications in smart cities

Accepted papers will be published in the IEEE ISWCS 2016 proceedings and will be submitted to the IEEE digital library (IEEE Xplore).

Submission Guidelines:

Prospective authors are invited to submit original technical papers up to 5 pages of length, using the EDAS link https://edas.info/newPaper.php?c=22607&track=80986. All submitted papers have to follow the IEEE conference paper template that can be downloaded from (http://www.ieee.org/conferences_events/conferences/publishing/templates.html)

Important Dates:

Submission:	June 17, 2016
Acceptance notification:	July 8, 2016
Camera-ready paper submissions:	August 1, 2016

Technical Program Chairs

Symeon Chatzinotas, University of Luxembourg, Luxembourg
Jun Li, Nanjing University of Science and Technology, China
Leila Musavian, Lancaster University, UK

TPC Members

Markku Juntii, CWC, University of Oulu, Finland
Tadashi Matsumo, Japan Advance Institute of Science and Technology, Japan
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Sajid Saleem, National University of Sciences and Technology (NUST), Pakistan
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