

23<sup>rd</sup> International Conference on Telecommunications

# ICT2016 "Expansion to Small"

May 16 - 18, 2016

Thessaloniki, Greece | Makedonia Palace Hotel

Technical Sponsorship



## Special Session

### Communications and Security of Smart and Connected Communities

**Organizers:** **Shaoen Wu**, *Ball State University, USA*, **Anyi Liu**, *Indiana University – Purdue University Fort Wayne, USA*, **Qing Yang**, *Montana State University, USA*.

## Call for Papers

A growing number of physical objects being connected to the Internet at an unprecedented rate promote the significant interest from academia, industry, and standard organization. Realized by the latest development in RFID, smart sensors, communication technologies, and Internet, the smart and connected community (S&CC) systems are expected to bridge diverse technologies to enable new applications by connecting physical objects together in supporting deep learning, knowledge discovery, and decision making. Despite recent technical advances and research efforts, S&CC communication and its security issues still remain open and challenging. Emerging technologies, innovations, and applications need to grow proportionally to match the demands of the market and people. Smart devices and objects are needed to fit the requirements in terms of efficiency, performance, power-saving, interoperability, availability, security, and privacy. In addition, new protocols are required for communication compatibility between heterogeneous smart things (RFID tags, smart sensors, vehicles, smart cards, phones, appliances, embedded systems, etc.).

This special session aims at providing researchers, enterprises and governments a platform to investigate, discuss, and propose new solutions, technologies, and applications to the open challenges of RFID, IoT, Smart Things, and Cyber-Physical Systems (CPS). We seek papers that address theoretical, experimental, and work in-progress that cover the design of architectures, protocols, algorithms, services, applications, and security and privacy in these areas. It also aims to promote the collaboration between academic and industry professionals working in related areas.

Topics covered by the special session will include, but are not limited to, the following:

- Routing, scheduling, and channel assignment protocols in S&CC environments
- QoS evaluation of RFID/IoT, Smart World, and CPS
- New technologies for identifying, sensing, communication, computing, and services for RFID/IoT, Smart World, and CPS
- Applications and implications of S&CC including Vehicular Ad-hoc Networking (VANET), intelligent transportation systems (ITS), inter-vehicular communication (IVC), mobile ad-hoc network (MANET), vehicular ad-hoc network (VANET), vehicle-to-vehicle (V2V) communication, and vehicle-to-infrastructure (V2I) communication
- Semantic analytics
- Big Data analytics in support of the RFID/IoT
- New attacks and countermeasures towards RFID/IoT communication and network
- Data integrity and privacy protection techniques for RFID/IoT/CPS
- Risk assessment and management on S&CC applications
- Trust model, data aggregation, and information sharing for S&CC networks

Prospective authors are invited to submit high-quality original technical papers following the rules of the Main Track of ICT 2016 for presentation at the conference and **publication in the ICT 2016 Proceedings and IEEE Xplore**, via EDAS, using <https://edas.info/newPaper.php?c=21703&track=79007>.

## Important Dates

Paper submission deadline: **February 20, 2016**

Paper acceptance notification: **March 5, 2016**

Camera Ready Papers: **March 15, 2016**

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