IEEE International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD)
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CALL FOR PAPERS
Special Session on "Security, Privacy and Resilience in Beyond 5G Era"
Submission Link: https://www.edas.info/newPaper.php?c=27371&track=101983

Scope

The world is facing fast economic and societal challenges, ensuring societal cohesion, and sustainable development. The introduction of digital technologies in economic and societal processes is key to address these challenges, and the fifth generation (5G) mobile communications and their evolution will support the societal transformation, leading to a fourth industrial revolution, making multiple sectors to rely on them. Nevertheless, some important challenges and complexities will have to be addressed in the way towards the provision of pervasive mobile 5G and beyond services, such as: sustaining massively generated network traffic with heterogeneous requirements; providing networking infrastructures featuring end-to-end connectivity, security and resource self-configuration; enabling trusted information sharing between tenants and hosts systems, and, ultimately; enabling new services and applications (e.g., communications with smart vehicles, high-speed trains, drones, industrial robots). These present diverse and often-conflicting needs for high bandwidth, lower latency, better reliability, massive connection density and improved energy efficiency. Moreover, this increasing complexity of the smart environments and the unprecedented levels of data sharing and cyber systems interoperability have also led to increasingly sophisticated, stealthy, targeted, and multi-faceted cyber-attacks. In light of the latter, the provision of effective management of the associated cyber security and privacy risks in organizations and enterprises is becoming even more important, due to the sheer complexity of cyber systems that need to be secured with improved reliability while preserving data privacy even in a context of increasing the number and level of sophistication of cyber-attacks. Furthermore, in the Era of massive connectivity, the convergence of cyber and physical systems introduce further challenges to threat modelling, and proactive strategies to ensure integrity, service continuity and privacy against intelligent attacks.

This Special Session aims to draw together information systems, researchers, providers and management experts involved in developing computer and network technology to improve secure, private and resilient systems.

For more details, please, see the main web site of the Conference.

Topics of Interest
In this Special Session, we welcome submissions of papers presenting original work. Submissions must not overlap with works that have been published or that are simultaneously considered for publication elsewhere. Particularly, we encourage researchers and industry

experts to submit original contributions in the following major areas (indicative list, other related topics will also be considered):

- Secure and resilient Human-in-the-loop 5G architectures
- Privacy in human-intense 5G communications
- Resilient and secure human-intense network services
- Threat modeling and defensive strategies for user-centric service and network management
- User experience and perception in resilient SDN/NFV enabled systems
- Privacy-preserving User-behavior analysis
- User' perception for interactive security and privacy mechanisms
- SDN/NFV-based resilient service orchestration
- Secure multi-access and multi-radio Access Technologies and Orchestration
- Big data analytics and machine learning for secure flexible mobile service steering
- Privacy-aware advanced smart metering solutions
- Economic implications and policies on cybersecurity
- Security, privacy and resilience schemes for EV/PHEV applications in the smart grid
- Advanced security measures for smart grid communication

Important Dates

Paper submission deadline   May 20, 2020
Paper acceptance notification July 05, 2020
Camera-ready paper   July 31, 2020
Conference date   September 14-16, 2020

Paper Submissions Guidelines
Prospective authors are invited to submit a full paper of not more than six (6) IEEE style pages including results, figures and references. Papers should be submitted via EDAS. Papers submitted to the conference, must describe unpublished work that has not been submitted for publication elsewhere. All submitted papers will be reviewed by at least three TPC members, while submission implies that at least one of the authors will register and present the paper at the conference. Electronic submission will be carried out through the EDAS web site at the following link: https://www.edas.info/newPaper.php?c=27371&track=101983
All accepted, registered and presented papers will be submitted for inclusion in the conference proceedings and IEEE digital library (http://ieeexplore.ieee.org/).

Special Session Organizers
- Burak Kantarci, University of Ottawa, Canada
- Michele Nogueira, Federal University of Paraná, Brazil