

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

# ICT2016 "Expansion to Small"

May 16 - 18, 2016

Thessaloniki, Greece | Makedonia Palace Hotel

Technical Sponsorship



Workshop on

## Optimization of Systems and Protocols for Heterogeneous High Performance Networking in- and beyond the 5G Era (Open 5G)

### Organizing Committee

#### Workshop Chairs

**Nikolaos Pappas**

*Linköping University, Sweden*

**Saeed Bastani**

*Lund University, Sweden*

#### TPC Co-Chairs

**Vangelis Angelakis**

*Linköping University, Sweden*

**Matteo Cesana**

*Politecnico Di Milano, Italy*

**Ilaria Malanchini**

*Bell Labs Nokia, Germany*

#### Poster/Demo Chair

**Elias Z. Tragos**

*FORTH, Greece*

### Important Dates

Paper submission deadline

**February 20, 2016**

Notification of acceptance

**March 5, 2016**

Camera ready deadline

**March 15, 2016**

### Information

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### Call for Papers

Internet traffic is continuously growing exponentially. Meanwhile, the explosive growth of the number of connected devices, backed by applications in the growing Internet of Things, places Machine-to-Machine (M2M) communications in the spotlight. Future networks are therefore now called to support applications with requirements ranging from guaranteed delivery of low throughput and low latency flows (M2M) to ones with very high throughput with low delay (4K live streaming). However, the current state of the art shows that scalable solutions are not really feasible. New areas need to be explored and new techniques further developed.

Taking into account the impact of prediction on the users' demand and availability of network resources could be one direction. By predicting and adapting to upcoming events at various time scales, an anticipatory-enabled network dramatically improves the operation quality and efficiency in comparison to the existing systems. On the other hand, wireless caching and distributed resource management have become core research aspects for the upcoming 5G technologies, with potential for significant benefits. Additionally, due to the massive access of the medium in the 5G era and in the IoT scenarios, more flexible and distributed protocols have to be deployed, focusing on short packets at very high rates. In such protocols the nodes should be auto-configurable without centralized operations.

The purpose of this workshop is to bring together researchers focusing on resource management and optimization within the context of anticipatory networking for the 5G and beyond, for large scale networks.

The technical topics of interest to the workshop include, but are not limited to:

- Prediction based on anticipatory network models for assessing network parameters
- Performance modeling of heterogeneous networks
- Wireless Caching
- Ultra low latency communication
- Age and value of information
- Distributed resource management and self-organization
- Multi-purpose heterogeneous networking
- Multiple access protocols' design and optimization
- Network data analytics for performance optimization

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 <https://edas.info/newPaper.php?c=21703&track=78914>.