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1st Colloquium on Communication Networks Optimization
Co-located with 11th IEEE/IET *International Symposium on*
COMMUNICATION SYSTEMS, NETWORKS & DIGITAL SIGNAL PROCESSING
(CSNDSP'18)
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This colloquium focuses on state-of-the-art research contributions that address methods and techniques used to analyze, dimensioning, designing and optimization of modern wired and wireless communication networks. From the perspective of teletraffic and traffic engineering, no matter what developing changes towards modern wired and wireless communication networks may bring, the essential objectives remain the same: (i) to determine and evaluate the relationship between the quality of service (QoS) parameters, traffic intensity, and required/available resources (especially significant when QoS guarantee is required); and (ii) to develop new and efficient methods for managing resources in nodes of communication networks. On the other hand, by the term optimization we mainly concentrate on routing and network topology modelling as well as related optimization techniques. In addition, given that wireless is a key feature of next generation wireless networks, we also welcome research efforts aimed at developing new transmission/receiving methods for improving wireless performance.

According to the above, the topics of primary interest include:

- Call admission and congestion control
- Modelling of internet-like topology on the autonomous systems
- MAC efficiency enhancements
- Modulation and coding
- Multiple-input multiple-output OFDM Systems
- Multi-user detection
- Networks and services planning and dimensioning
- Performance modelling and assessment of optical networks including PONs
- Optimization on communication protocols
- Overlay and CDN routing schemes
- Performance evaluation of switching systems
- Performance evaluation of wired and wireless networks
- Receiver algorithms
- Modelling of router-level topology and topology generators
- Routing and routing optimization techniques
- Space time coding and decoding
- Teletraffic models and simulation techniques
- Topology modelling of IoT, Cloud, VANET, WMN and WSN networks
- Traffic engineering and network/traffic optimization
- Traffic forecasting
- Traffic grooming

Submission Dates

- Full paper due: 12/02/2018   • Notification of acceptance: 01/04/2018   • Camera ready paper: 12/05/2018

Paper format and submission procedure are available at http://csndsp2018.com/

For further information about this colloquium, please contact: Dr Ioannis Moscholios and Dr Piotr Remlein
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