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Special Session on
Teletraffic Models, Traffic Engineering and Network Optimization

Name and affiliation of organizers:

Ioannis Moscholios	Shigeo Shioda	Michael Logothetis
Informatics & Telecommunications University of Peloponnese, Greece *idm@uop.gr*	Graduate School of Engineering Chiba University, Japan *shioda@faculty.chiba-u.jp*	University of Patras, Greece *mlogo@upatras.gr*
		
Prof. MOSCHOLIOS' research interests include teletraffic engineering in Next Generation networks, performance evaluation and optimization of telecom networks as well as network simulation. He has published more than 195 papers in international journals and conferences. He is also a co-author of the book "Efficient Multirate Teletraffic Loss Models beyond Erlang" (Wiley-IEEE Press, 2019).	Prof. SHIODA received the Ph.D. degree in teletraffic engineering from the University of Tokyo, in 1998. In 1988, he joined NTT, where he was engaged in research on teletraffic engineering for ATM-based networks. In 2001, he moved to Chiba University, where he is currently a Professor. His current research interests include the performance evaluation of telecommunication systems, indoor localization, and online social networks.	Prof. Michael Logothetis. Dipl.-Eng. (1981), PhD (1990), ECE Dept., Univ. of Patras, Patras/Greece. Research: Teletraffic theory/engineering, traffic/network control, simulation & performance optimization of communications networks. Publications: over 250 (two teletraffic books Klidarithmos/ Wiley) with over 1050 third-party citations. Organized: IEEE/IET CSNDSP 2006, IEICE ICTF 2016. Member: IARIA(Fellow), IEEE (Senior), IEICE(Senior), FITCE, Technical Chamber of Greece (TEE).

Scope of the session

The objective of this special session is to bring together research papers that address challenges in teletraffic theory and engineering as well as network optimization in contemporary communication networks. From the point of view of teletraffic and traffic engineering, the key objectives remain the same over the years regardless of the network technology: to determine the required network resources according to the offered traffic-load and the desired QoS, and/or to provide effective mechanisms for managing the traffic volume and network resources in each network node or communication link. On the other hand, by the term network optimization, we mainly focus on routing optimization and network topology modeling and other related optimization techniques.

Prospective authors are invited to submit original and unpublished work on the following research topics related to this Special Session:

- performance evaluation of wired, optical, wireless and satellite networks
- optical network performance modelling and assessment
- networks and services modelling tools
- call admission control
- network planning and dimensioning
- traffic management and forecasting
- QoS routing
- performance evaluation of switching systems

- analytical and simulation of teletraffic models
- network/traffic optimization