

Call for Papers
1st workshop on
5G Transport Networks (5GT)

In conjunction with ICTON
17th International Conference on Transparent Optical Networks,
Budapest, Hungary, July 5-9, 2015
<http://www.icton2015.hu/>
Technically (co-)sponsored by the IEEE

Scope of workshop:

The 5th generation of mobile networks (5G) will enable access to information anywhere and anytime to anyone and anything, i.e., the so called Networked Society. The details of 5G are the subject of ongoing research and debate, mostly focused on understanding radio technologies that can enable the 5G vision. So far, less work has been dedicated to address the challenges that 5G will pose to the transport network. These challenges include the capability of supporting very high aggregated traffic volumes, ensuring extremely small latency, providing flexibility and programmability for efficient adaptation to the traffic conditions as well as for service differentiation. The purpose of this workshop is to gather international experts to discuss the latest research advances and trends in the field of 5G transport networks. Topics of relevance include but are not limited to:

- 5G transport networks design and dimensioning
- Innovative architectures and technologies for 5G transport networks
- Programmable 5G transport networks
- SDN control architectures for 5G transport networks
- SDN transport controller design and implementation
- Virtualization of transport resources
- Virtualization and placements of mobile network functions
- Traffic monitoring for dynamic NFV in transport networks
- Joint orchestration of radio, transport and cloud resources
- Transport selection for device-centric communications in 5G
- Dynamic resource sharing for flexible 5G transport networks
- Separation of data and control plane in 5G transport networks
- Transport solutions for 5G radio technologies (e.g., massive MIMO, beamforming, CoMP)
- Power models for 5G transport networks
- Green transport solutions
- Total cost of ownership (TCO) analysis of 5G transport networks
- Transport solutions for heterogeneous wireless networks
- Transport solutions for indoor radio networks (e.g., DAS and RDS)
- End-to-end transport solutions for multiple radio access technologies (RATs)
- Efficient integration of wired and wireless transport technologies
- Usability of higher frequency bands (Mm-wave and visible light) for wireless transport
- Migration to IP-based transport in 5G networks
- Transport relaxation in 5G networks including traffic offloading and data caching

5GT Technical Program Committee:

Chair: Matteo Fiorani, KTH Royal Institute of Technology, Stockholm, Sweden

Co-Chairs: Ahmad Rostami, Ericsson Research, Stockholm, Sweden
Paolo Monti, KTH Royal Institute of Technology, Stockholm, Sweden

Members: Luca Valcarengi, Scuola Superiore Sant'Anna, Pisa, Italy
Peter Öhlen, Ericsson Research, Stockholm, Sweden
Slavisa Aleksic, Vienna University of Technology, Vienna, Austria
Young Lee, Huawei Technologies, Plano, USA
Anna Tzanakaki, University of Bristol, Bristol, UK
Joachim Westphal, Deutsche Telekom, Berlin, Germany
Jonas Mårtensson, Acreo Swedish ICT, Stockholm, Sweden
Hagen Woesner, BISDN, Berlin, Germany
Marian Marciniak, National Institute of Telecommunications, Warsaw, Poland

Paper submission: according to ICTON submission rules at <http://www.itl.waw.pl/icton> (4 pages in electronic form, Word 6.0 or later version accompanied by a PDF version), **please write 5GT in the subject line** when submitting your contribution. All accepted 5GT papers will be included in ICTON 2015 Proceedings (published on IEEE Xplore).

Important dates:

Submission deadline: March 31, 2015
Notification of acceptance: April 30, 2015
Post-deadline papers with very recent results are requested by June 1, 2015