

# TMA CONFERENCE 2017

Network Traffic Measurement and Analysis Conference

Dublin, Ireland

June 21-23, 2017



We are very excited to announce the new 2017 Network Traffic Measurement and Analysis Conference (TMA 2017). TMA 2017 is a unification of three successful workshops:

- IFIP/ACM Traffic Monitoring and Analysis Workshop (TMA)
- IEEE Workshop on TRaffic Analysis and Characterization (TRAC)
- IEEE Workshop on Network Measurements (WNM).

The Network Traffic Measurement and Analysis Conference (TMA) is a highly selective venue for the presentation of both early-stage and mature research as well as controversial works on all aspects of network measurements. The focus is on improving the practice or application of measurements, across the entire network stack up to the application layer, with an emphasis on new areas of network communication such as Software-Defined Networks, Cloud services, Content Distribution Networks, Social Networks, mobile applications and data centers. We also welcome more traditional measurement topics, such as traffic classification, anomaly detection, network performance evaluation and traffic analysis. The Conference will maintain the tradition of open and lively interaction between scientists and engineers in academia or industry and serve as a premier forum to exchange ideas, present new results and advance the state-of-the-art.

Papers accepted for presentations will be published in the IFIP Digital Library, with open access, and on IEEE Xplore Digital Library, and best papers will be fast tracked for IEEE TRANSACTIONS ON NETWORK AND SERVICE MANAGEMENT (IEEE TNSM).

The Conference will be hosted in the beautiful campus of the Maynooth University, 30 min from Dublin, and co-located with the traditional TMA PhD school, which usually brings more than 30 PhD students who are interested in network measurement and analysis topics, and will bring a vivid contribution to the audience and present their research work in a poster session.



For all other details, please refer to the conference website: <http://tma.ifip.org/>

## Call for Papers

As we witness the explosion of demand for bandwidth and exciting changes in the ways we do networking brought about by SDN, virtualization, cloud, IoT and ubiquitous broadband wireless, we are facing new challenges in measurement and analysis across the entire network stack, from the physical layer up to applications and services in the cloud. TMA 2017 is therefore inviting submissions presenting new ideas, experiences, and results in collection, processing, analysis and presentation of network and traffic data, which may address performance enhancement, monitoring, management, security, privacy or other uses of network data.

Topics of interest include, but are not limited to:

- Traffic measurement, analysis, characterization, visualization and classification
- The use of Big Data, Data Analytics, Data Mining, High-Rate Processing and Data Reduction in network measurement, analysis and visualization
- Measurements of data centers or cloud-based systems
- Measurements of Software-Defined Networks (SDN) and Virtual Network Functions (VNF)
- Measurements of home, mobile and wireless traffic including devices with multiple network paths
- Application-layer measurements, including web services, social networks, mobile applications
- Measurements of Quality of Service and Quality of Experience, for network services using audio, video, virtual/augmented reality and gaming
- Applications of traffic analysis for security, anomaly/vulnerability/attack detection and user profiling/privacy
- Identification and classification of traffic, including encrypted and proprietary protocols
- Techniques for and implications of privacy preservation, enhancement and anonymization in the context of traffic measurements
- Platforms for network performance and topology measurement and troubleshooting, particularly for service quality management and control in operational networks
- Current and emerging regulatory frameworks for measurement, analysis and privacy
- Measurement of traditional and new protocols (e.g. TCP, MPTCP, HTTP/2, QUIC) and modes of communication (e.g. NFC and IoT)
- Validation and repeatability of measurements, shared datasets, collaborative platforms

### Important dates

Paper registration:	Friday, January 27, 2017
Paper submission:	Friday, February 3, 2017
Author notification:	Monday, April 3, 2017
Conference dates:	June 21 - 23, 2017

### Program Chairs

Marco Mellia - Politecnico di Torino, IT  
Emir Halepovic - AT&T Labs - Research, US  
David Malone - Hamilton Institute, IE

### Publicity and Publication Chair

Pedro Casas - Austrian Institute of Technology, AT