

Call for Papers
International Teletraffic Congress (ITC)
19th Specialist Seminar



Network Usage and Traffic

October 8–10, 2008, at Technische Universität Berlin and Deutsche Telekom Laboratories

Dates:

Submission deadline: June 15, 2008
Notification: August 17, 2008
Final version: September 21, 2008
Seminar dates: October 8 to 10, 2008

General chairs:

Anja Feldmann (TU Berlin, Germany)
Adam Wolisz (TU Berlin, Germany)

Program committee chairs:

Matthias Grossglauser (Nokia Research, Finland)
Gunnar Karlsson (KTH, Sweden)

Overview and scope:

Communication networks are part of our vital infrastructure, and the services they provide are fundamental to our daily work and private lives. The networks are constantly evolving, which leads to high uncertainty about current and future network usage and traffic demands. An important trend for this evolution is that data and wireless networks are increasingly inter-connected with sensor networks, industrial communication systems, as well as ad hoc and femto-cell wireless networks into one big internet. Another important trend is the proliferation of novel application-layer communication and interaction models, including social networks, blogs and micro-blogs, and user-generated content sharing. Many of these models are proliferating not only on the wired internet, but they are becoming available also on mobile terminals. The traffic patterns resulting from such interaction models and their dependence on human behavior and social contexts are not well understood, and little is known about the usage of services and the resulting traffic in heterogeneous interconnected network.

Given the importance of communication systems in our society and the tremendous changes that they undergo, this seminar is aimed at characterizing network usage and traffic, which is germane for the design, operation and management of all forms of communication networks. It is the 19th event in the series of the ITC Specialist Seminars that started in 1977. The seminar will take place on October 8 to 10, 2008, in Berlin, Germany.

We are now soliciting papers that describe original, previously unpublished, completed research as well as work in progress, not currently under review by another conference or journal, addressing all areas pertaining to the theme of the seminar. Topics of interest include, but are not limited to, the following:

- Human behavior models for application-level characterizations;
- Information flow in social networks and other application-level structures;
- Network usage and traffic patterns for machine and industrial communication;
- Characterization of usage and traffic for peer-to-peer networks;
- Elasticity of streaming flows and their quality-rate tradeoffs;
- Stochastic and deterministic usage and traffic modeling techniques and their applications;
- Spatial and temporal traffic models for mobile communication and information access;
- Macroscopic abstractions of traffic flows in large networks;
- Characterization and detection of traffic anomalies for attack and fault detection.

Submission instructions:

The submissions will be judged on originality, significance, interest, clarity, relevance, and correctness. At least one of the authors of each accepted paper must present the paper at the seminar. Submissions should be full-length papers that are no longer than 10 single-spaced, double-column pages with font sizes of 10 or larger, including all figures and references, and must include an abstract of 100 to 150 words. We will only accept files in Adobe PDF format.

Sponsors:

This workshop is sponsored by the ITC ITG.

More information:

<http://www.i-teletraffic.org/>