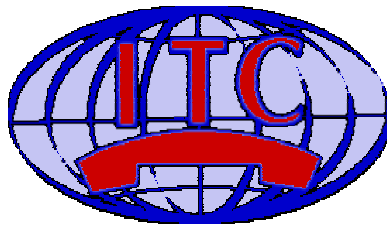


## Call for Papers



**15TH ITC SPECIALIST SEMINAR:  
INTERNET TRAFFIC ENGINEERING AND TRAFFIC MANAGEMENT\***  
July 22-24 2002, Wuerzburg, Germany

<http://www-info3.informatik.uni-wuerzburg.de/IP2002>



Department of Distributed Systems, University of Wuerzburg, Germany.

**Sponsors:** (to be announced)

**Purpose and Scope:**

The success of future IP-based communication networks is heavily dependent on their ability to economically and reliably offer a range of quality services. Essential requirements are traffic management mechanisms capable of providing necessary QoS guarantees and traffic engineering procedures which ensure that these mechanisms are used in a cost-effective way.

While it is increasingly recognized that traffic management and traffic engineering are complementary and mutually dependent functions, it is also clear that there remains a significant gap in our understanding of the best way to use them. For instance, while various queue management schemes provide service differentiation, it largely remains to specify how they can be configured and resources adequately provisioned to meet quantitative quality objectives. Complex service level agreements are being defined with little regard to the facility with which they can be honoured. IP traffic engineering still relies on routing algorithms which are, to say the least, quite primitive with respect to their ability to place traffic where capacity is available.

The objective of the seminar is to address these issues at the intersection of traffic management and traffic engineering. It will provide a workshop setting for an exchange of ideas and results between researchers and practitioners in this area. The scope of the seminar includes the following areas:

Traffic measurement:	<i>techniques and tools, traffic trends and patterns, definition of performance metrics, load and performance monitoring</i>
Traffic and performance modelling:	<i>characterization at packet, flow and application levels, self-similarity and multifractal behaviour, effects of short-range versus long-range dependence, model validation and experiments</i>

---

\* jointly organized with the 3rd University of Wuerzburg/ITG Workshop on IP Network Management, Planning, and Optimisation

Traffic management and QoS models:	<i>traffic classification and service differentiation, QoS routing, admission control, management architectures, pricing</i>
Performance test beds and testing methodology:	<i>experimental test beds and results, results from operational networks</i>
Network design methodology:	<i>traffic matrix inference, dimensioning procedures, network optimisation</i>
Application to specific network technologies	<i>Next Generation IP Networks, DiffServ/IntServ, (G)MPLS, IP over Optical, IP over 3G Wireless, Seamless ALL-IP Wireless Networks, Mobile/Cellular IP</i>
Application to networked services	<i>Web Services, Content Delivery in IP networks, Peer-to-Peer Services, Network Storage Services, Streaming Services, New IP-based Services</i>

### **Paper Submission:**

Authors are encouraged to submit a full paper of up to 12 pages.

The papers will be reviewed by the programme committee for relevance, clarity and the novelty of results. Accepted papers will be published in the workshop proceedings.

Send electronic manuscripts in PDF or Postscript format to:

[k-tutschku@informatik.uni-wuerzburg.de](mailto:k-tutschku@informatik.uni-wuerzburg.de)

The final length of full papers will be limited to 12 pages (minimum of 11pt font, and printable on A4 paper). All papers should include the complete postal and electronic mailing addresses, as well as the phone and fax numbers of the corresponding author. The papers are expected to have an abstract with a clear contribution statement.

For further details on the paper submission, please see also:

<http://www-info3.informatik.uni-wuerzburg.de/IP2002>

### **Schedule:**

Full Paper Submission Deadline:	April 8, 2002 (was March 22, 2002).
Notification of Full Paper Acceptance:	May 24, 2002 (was May 17, 2002).
Final Version of Paper Due:	June 22, 2002.
Seminar:	July 22-24, 2002.

### **Technical Paper Committee:**

(to be completed)

Phuoc Tran-Gia	University of Würzburg, Germany (Chair)
James Roberts	France Telecom, France (Co-chair)
Onno Boxma	Eindhoven University of Technology, The Netherlands
Joachim Charzinski	Siemens AG, Germany
Jon Crowcroft	University of Cambridge, UK

Christophe Diot	Sprint Advanced Technology Labs, USA
Anja Feldmann	University of Saarbruecken, Germany
Serge Fdida	Université Pierre et Marie Curie - Paris 6, France
Markus Fiedler	Blekinge Institute of Technology, Sweden
Richard Harris	Royal Melbourne Institute of Technology, Australia
Gunnar Karlsson	Royal Insititute of Technology, Sweden
Konosuke Kawashima	NTT Advanced Technology Corp., Japan
Edward Knightly	Rice University, USA
Udo Krieger	T-Nova, Deutsche Telekom, Germany
Guy Latouche	Universite Libre de Bruxelles, Belgium
Ralf Lehnert	Technical University of Dresden, Germany
Debasis Mitra	Bell Labs Research, USA
Sandor Molnar	Budapest University of Technology and Economics, Hungary
Ilkka Norros	VTT Information Technology, Finland
Michal Pioro	Warsaw University of Technology / Lund University, Poland/Sweden
Alexandre Proutiere	France Telecom, France
Jennifer Rexford	AT&T Research, USA
Hideaki Takagi	University of Tsukuba, Japan
Don Townsley	University of Massachusetts, USA
Patricia Wirth	AT&T Research, USA

**Local Organizing Committee:**

Kurt Tutschku	University of Würzburg, Germany (Chair)
Michael Menth	University of Würzburg, Germany
Klaus Heck	University of Würzburg, Germany

**IAC Liaison:**

Paul Kuehn	(ITC IAC Chairman)
------------	--------------------