

ONDM 2007 Call for Papers

11th Conference on Optical Network Design and Modelling

May 29-31, 2007, Athens (Greece)

<http://www.ondm2007.gr>

Over the last years it became clear that Optical Networks will become the central linking institution of the Information-based Economy and Society. The recent advances in WDM technology retransformed our notion about the traditional networking layer and offered new design options to the network operators and designers. Although IP is becoming the dominant protocol for data, voice and video services the growth in data traffic exceeds the processing capabilities of the electronic routers and this has raised a number of issues concerning the integration of the IP-routing functionality with the optical transport platform. New optimized network architectures, transport protocols, routing and traffic engineering as well as network provisioning are sought by service providers that will enable them to establish on demand high capacity circuits to carry large volumes of traffic in cost-efficient way.

The purpose of the ONDM conference is to address recent advances in the design, modelling and implementation of optical networks, including novel switching schemes and paradigms, network optimization and design, new concepts for link and control layer protocols, advanced network subsystems and node architectures and network inter-working schemes.

ONDM 2007 is sponsored by the International Federation of Information Processing IFIP (<http://www.ifip.tu-graz.ac.at/TC6/>).

Additionally, the conference is supported by the

- EU ePhoton/ONe project (<http://www.e-photon-one.org/>) and
- COST 291 action (<http://palantir.ait.edu.gr/cost291/>).

Main Topics

- Optical network performance modeling
- Optical network planning and design
- Network reconfiguration and restoration techniques
- Optical data networking
- Optical packet/burst switching (OBS/OPS)
- Inter-working between optical and wireless networks
- Novel architectures for wavelength routers (optical nodes)
- Physical and logical network topologies
- Call admission control and QoS- awareness in optical networks

- Routing and wavelength assignment algorithms
- Optical Time Division Multiplexing (OTDM) systems
- MAC protocols for optical LANs and MANs
- Soliton-based networks
- High speed optical LANs and gigabit Ethernet
- All-optical access networks
- Multi-layer design of optical networks
- Optical interfaces and optical terminals
- Self-healing SDH loops
- Optical integrated circuits
- Applications for all-optical network infrastructures
- WDM inter-working with IP networks
- Photonic-based end-to-end communication protocols
- GMPLS optical switching nodes
- Optical network management
- Optical multicasting
- Standardization and economic comparisons
- Signaling for all-optical networks
- Measurement, monitoring and supervision techniques
- Optical network performance monitoring
- Field trials and experiments
- Optical architectures for grid applications
- Modelling and design methodologies for optical grid networks

Important Deadlines

- Desember 22, 2006: Original full-length unpublished paper due (electronic submission preferred).
- February 23, 2007: Notification of acceptance of paper.
- March 23, 2007: Final camera-ready manuscript due and registration.
- Conference dates: May 29-31, 2007.

Author Guidelines

High-quality original papers are solicited in full length of 6 to 10 single-spaced pages (in English). (Please note that due to the specific format used in this paper, a 3-page paper in a two-column format is almost equivalent to 6-pages).

Information and author guidelines regarding the paper layout can be found in:

<http://www.springeronline.com/sgw/cda/frontpage/0,10735,5-164-2-72376-0,00.html>

A Microsoft word draft version with guidelines can be downloaded from here:

http://www.springer.com/cda/content/document/cda_downloaddocument/word.zip?SGWID=0-0-45-72919-0

Also information about users using LaTeX can be found in the first URL above.

Submissions must include: title, authors, affiliations, abstract, and a list of maximum five keywords. The author responsible for correspondence should be identified, including mailing address, telephone and fax numbers, and e-mail address.

All papers will be subject to a full review process carried out by the Technical Program Committee members and other experts active in the field to ensure quality and relevance. At least one of the authors of an accepted paper will be expected to attend the conference and present the work.

The conference proceedings will be published as hard-copy and electronically by Springer Verlag, Heidelberg, Germany, in the Lecture Notes in Computer Science (LNCS) Series, which will be available during the event.

Authors may submit their work on-line at the ONDM 2007 conference web-site

In case you have any problems or questions regarding paper submission please contact:
Dr. Dimitrios Klonidis, AIT, Greece (e-mail: dikl@ait.gr)

Registration/Accommodation

Information regarding registration, accommodation and transportation will be available at the ONDM 2007 web site.

Organizing committee

General Co-Chairs:

Ioannis Tomkos, AIT, Greece

Fabio Neri, PoliTo, Italy

Technical Program Committee Chair

Josep Solé-Pareta, UPC, Spain

Technical Program Committee Vice-Chairs

Sergi Sánchez-López, UPC, Spain

Xavier Masip-Bruin, UPC, Spain

Local organizing Committee:

Ioannis Tomkos, AIT, Greece

Dimitrios Klonidis, AIT, Greece

Stelios Sygletos, AIT, Greece