

## Call for Papers COST 291 Workshop

*“Optical networking perspectives vs. optical technologies reality”*

**May 29, 2007**

**Part of the 11th Conference on Optical Network Design and Modelling (ONDM 2007)**

<http://www.ondm2007.gr>

To address the emerging requirements for real-time bandwidth management an automated and intelligent optical transport platform is needed to pull out much of the operational complexity residing on the upper layers. Such an optical reconfigurable network would dynamically modify itself in real time to respond to changing network conditions and service needs. An efficient dimensioning and design of this network infrastructure can not be achieved without a sound knowledge of the device capabilities and the limitations of the physical layer. For example to perform efficient routing as well as protection and restoration in a transparent network the accumulated impairments on the transmitted signal need to be considered. The development of intelligent routing algorithms to overcome the corresponding degradations will significantly extend the maximum transparent length and enhance the overall network throughput. On the other hand wavelength converters are characterized with a limited tuning range whilst the cascability properties of the optical regenerative subsystems are still confined. Furthermore, the gain transients of the EDFAs may affect the blocking performance of a dynamic OBS/OPS network. It is very important to develop network layer solutions that are mindful of the limited operational margins of the optical components and subsystems and also provide ways to combat their non-ideal performance. Therefore, networking studies that attempt to incorporate physical-layer device characteristics while solving network layer problems have recently attract much of the research interest.

This COST 291 workshop is co-located with ONDM 2007 and its purpose is to provide a forum for presenting and discussing the perspectives of optical networking as well as the ability of the existing technologies to meet the projected challenges. Included are views on network applications and optical layer architectures, optical network element and optical network system design, network management and control, new service opportunities and optical network standards.

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

### **Important Dates**

- December 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.
- Workshop date: May 29, 2007.

## Submission Instructions and 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 standard 2-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](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 workshop proceedings will be published as hard-copy and electronically by Springer Verlag, Heidelberg, Germany, in the Lecture Notes in Computer Science (LNCS) Series (together with the ONDM papers), which will be available during the event.

Authors may submit their work on-line at the ONDM 2007 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](mailto:dikl@ait.gr))

## Registration

Workshop registration will be handled as part of the main ONDM 2007 registration. Further information on registration will be available on the ONDM 2007 web site. Online proceedings of the workshop, including abstracts and presentations, will also be made available at this website at a later date.

## Organizing Committee

### Workshop Chair

Ioannis Tomkos (AIT), [itom@ait.gr](mailto:itom@ait.gr)

### Technical Program Committee (TBC)

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