

Call for Papers

GOSP 2005

First IEEE/CreateNet International Workshop on Guaranteed Optical Service Provisioning

(Co-located with IEEE/CreateNet BROADNETS 2005, October 3-7, Boston, Massachusetts, USA)

Recent technological advances in *dense wavelength division multiplexing* (DWDM) component technologies have led to profound transformations at the networking layer, ushering in revamped, highly-scalable “on-demand” bandwidth provisioning paradigms. As a result, DWDM has found a very strong favor in long-haul core networks where increased demands and large client bases have yielded very amenable amortization rates. The lightpath based circuit switching technology is quite mature and other technologies such as optical burst switching, optical packet switching and other variants are evolving. With the advent of generalized multi-protocol label switching framework, effective routing and signaling mechanisms for providing guaranteed services in optical networks can be developed. The continuing maturation and declining costs of optical technologies have led to many further paradigms that are taking shape within the optical networking arena. These advances are also being targeted for more entrenched metro, edge, and access domains for various reasons. Guaranteed service provisioning is an important and a challenging problem in core, metro, and also access networks. There exist several kinds of applications that may span different network segments from access networks to metro to long-haul networks. The types of applications being deployed across the public Internet today are increasingly mission-critical, whereby business success can be jeopardized by poor performance of the network. It does not matter how attractive and potentially lucrative these applications are if the network does not function reliably and consistently. Satisfying customer demands is of utmost importance for the service providers. Different applications/customers may need different levels of service guarantees in terms quality of service (QoS) parameters such as bandwidth, fault tolerance, recovery time, reliability, availability, response time, packet/burst loss, BER, etc. In such scenarios optical networks will not be much promising unless they can guarantee a predictable performance as specified by the QoS parameters. Thus guaranteed optical services become a vital tool to ensure that several kinds of applications can coexist and function at acceptable levels of performance.

The workshop aims to figure out the QoS parameters that are of importance for end users in optical networking scenario and mechanisms to meet the requirements specified by these parameters. Some of the QoS parameters include bandwidth, fault-tolerance, availability, reliability, recovery time, packet/burst loss, and response time. The workshop solicits high-quality articles related to guaranteed services in a wide range of optical networking technologies — optical circuit switching, optical burst switching, optical packet switching, access networks, etc. Papers must be original and neither previously published nor under review by another conference or journal. The key topics of interest include, but are not restricted to:

- Bandwidth guaranteed services
- Quality of protection
- Quality of restoration
- QoS based on physical layer constraints
- Absolute and relative service guarantees
- Adaptive/elastic QoS guarantees
- QoS-driven routing and signaling protocols
- Architectural/design issues of optical switches and routers due to service guarantees
- QoS at optical and client layers
- Traffic engineering based QoS
- Performance evaluation and experiences with QoS-aware optical networks
- Multi-service optical networks
- Trusted/secured optical networks

Important Dates

Full Paper Manuscripts Due : July 10, 2005
Acceptance Notification : August 15, 2005
Camera-Ready Manuscript Due : August 30, 2005
Workshop Date : October 7, 2005

Submission Guidelines:

Authors are invited to submit full papers of up to 10 pages in IEEE conference proceedings format, including references, figures and tables. All submissions must be submitted electronically in Adobe PDF format through the **COCUS** web site. For details, please refer to the "submission guidelines" at the GOSP Web site at <http://www.wgosp.org>.

Organizing Committee

Workshop Chairs

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