**Optical Switching and Networking (OSN)**

Start Date of Review/Analysis: Jan. 2005; Analyst: Menglin Liu

**2010**

*April:* Nothing related/interesting

*January:* Nothing related/interesting

**2009**

*December:* Selected Papers from ANTS 2008

- "Optical Network Design with mixed line rates" by Avishek Nag, Massimo Tornatore: propose a novel, cost-effective approach to design a MLR network with TR constraint

*July:* Special Issue on "PONs: Technologies, Architectures, and Deployment Strategies"

- "Passive Optical Networks (PONs): Past, present, and future" by F. Effenberger, T. S. El-Bawab: examines the history of PONs, investigates their current status, and explores their future opportunities; may be of interest to Rajesh, Lei, and others interested in PON
- "PON with Automatic Protection switching for high reliable communication" by H. Mukai, Y. Hotta, T. Yokotani, A. Takahashi, K. Shimokasa: introduces the current status of FTTH in Japan then proposes a redundant optical access system with automatic protection switching over PON for FTTBus; may be of interest to Rajesh and Lei

*April:* Recent trends on optical network design and modeling—selected topics from ONDM 2008

- "OBGP+: An improved path-vector protocol for multi-domain optical networks" by M. Yannuzzi, X. Masip-Bruin, S. Sanchez-Lopez, E. Marin-Tordera proposes a very simple extension of a path-vector protocol supporting the computation and advertisement of Path-State-Information between optical domains; may be of interest to Chaitanya and Menglin

January: Nothing related/interesting

**2008**

*October:* Nothing related/interesting

*June:* Special Issue on "Advanced in IP-Optical Networking for IP Quad-play Traffic and Services"

- "Grade-of-Service differentiated static resource allocation schemes in WDM networks" by Y. Zhang, J. Wu, G. Bochmann, M. Savoie: proposes a static Grade-of-Service differentiation model as one minimizing the total rejection and cost penalty; may be of interest to who is interested in differentiated service
- "A novel approach to provision differentiated services in survivable IP-over-WDM networks" by Smita Rai, Lei Song, Cicek Cavdar, Dragos Andrei, Biswanath Mukherjee

*March:* Special Issue on "Photonics in Switching 2006"

- "Optical packet switching: A reality check" by R. S. Tucker: presents an analysis of the energy consumption in a number of optical switch fabric architectures for optical packet-switched application and compares them to electronic switch fabrics; may be of interest to Yi and Pulak

**2007**

*November:* Nothing related/interesting

*June:* Nothing related/interesting

*February:*

- "Signalling end-to-end optical services over multi-domain networks" (Review) by H. Elbiaze, O. Cherkaoui: proposes a new User-Controlled LightPath architecture that offers end-to-end services provisioning in a multi-domain network; might be of interest to Chaitanya and Menglin

**2006**

*December:* Nothing related/interesting

*August:*

- "On Surviving dual-link failures in path protected optical WDM mesh networks" by M. Sivakumar, K. M. Sivalingam: proposes an adaptive scheme that builds upon a proactive path protection model, and adds dynamic segment-based restoration to combat dual-link failures; may be of interest to Ferhat and Menglin

*July:* Nothing related/interesting

**2005**

*December:* Nothing related/interesting

*November:* Nothing related/interesting

*September:* Special Issue on "Selected papers from the BROADNETS 2004

- "Survivable routing in IP-over-WDM networks: An efficient and scalable local search algorithm" by F. Ducatelle, L. M. Gambardella: describes a local search algorithm for survivable routing; may be of interest to Chaitanya, Menglin and Ferhat

*May:* Nothing related/interesting

*January:*

- "Extension of segment protection for bandwidth efficiency and differentiated quality of protection in optical/MPLS networks" by Canhui (Sam) Ou, Smita Rai, Biswanath Mukherjee: unifies various forms of segment protection into generalized segment protection and presents a new approach to provisioning lightpath requests according to their differentiated quality-of-protection (QoP) requirement