

PANTELIS VELANAS

PUBLICATIONS – NOVEMBER 2013

Ph.D THESIS

1. "Photonic fiber devices for telecom applications", Department of Informatics and Telecommunication, National and Kapodestrian University of Athens

PAPERS IN REFEREED JOURNALS

1. "Impact of dispersion fluctuations on the noise properties of fiber optic parametric amplifiers.", P. Velanas, A. Bogris, D. Syvridis, IEEE/OSA, Journal of Lightwave Technology, Vol. 24, No. 5, (2006).
2. "Operation Properties of a Reconfigurable Photonic Logic Gate Based on Cross Phase Modulation on Highly Non linear Fibers", P. Velanas, A. Bogris, D. Syvridis, Elsevier, Fiber Optical Technology, vol 15, issue 1, pp. 65-73 (2009)
3. "High Speed All-Optical First- and Second-order Differentiators based on Cross Phase Modulation in Fibers" ,P. Velanas, A Bogris, A. Argyris, D. Syvridis, IEEE/OSA Journal of Lightwave Technology, vol 26, no 18, September 15, pp. 3269-3276 (2008)
4. "Numerical Investigation of a 160Gb/s Reconfigurable Photonic Logic Gate Based on Cross Phase Modulation on Fibers", Bogris, P. Velanas, D. Syvridis, IEEE, Photonic Technology Letters, Vol. 19, No. 6, (2007).
5. "Capacity enhancement of passive optical access networks using orthogonal modulation schemes.", N. Skarmoutsos, P. Velanas, D. Syvridis OSA, Journal of Optical Networking, Vol. 6, No. 7, (2007).

PAPERS IN PROCEEDINGS OF INTERNATIONAL CONFERENCES

1. "Ultrawide-band Pulse Generation Based On Cross Phase Modulation in Fibers", P. Velanas, A. Bogris, A. Argyris, D. Syvridis, IEEE Winter Topicals 2008 Nonlinear Photonics 14-16 pp 90-91 (2008)
2. "A Novel Transmitter based on Orthogonal Modulation Schemes for Future Passive Optical Networks", P. Velanas, Y. Androulakis, A Bogris, D. Syvridis, OFC/NFOEC 2008, 24-28 February, pp. 1-3 (2008)
3. "Polarization-Insensitive 2R-Regenerator based on Two- Pump Fiber Optical Parametric Amplifier", P. Velanas, A. Bogris, A. Argyris, D. Syvridis, IEEE Winter Topicals 2009 Parametric Amplification II 12-14 (2009)

4. "A Long-Reach Resilient Passive Optical Network for Scalable Access", J. Prat, J. A. Lazaro, P. Chanclou, R. Soila, P. Velanas, A. Teixeira, G.T. Beleffi, I. Tomkos and K. Kanonakis, ICT-Mobile Summit 10-12 (2009)
5. "Passive Optical Network for Long-Reach Scalable and Resilient Access (Invited talk)", J. Prat, J.A. Lazaro, P. Chanclou, R. Soila, P. Velanas, A. Teixeira, G. Tosi Beleffi, I. Tomkos, K. Kanonakis 10th International Conference on Telecommunications CONTEL 2009, 8-10 (2009).
6. "Hybrid ring-tree WDM/TDM-PON optical distribution network", J. Prat, J.A. Lazaro, P. Chanclou, R. Soila, P. Velanas, A. Teixeira, G. Tosi Beleffi, I. Tomkos, D. Klondis, Transparent Optical Networks, 2009, ICTON'09, 11th International Conference on, (2009)