



Neo A. Antoniadis

Assistant Professor

Department of Engineering Science and Physics

College of Staten Island of CUNY

2800 Victory Blvd

Staten Island, NY 10314

Tel: (718) 982-3291

Email: antoniades@mail.csi.cuny.com

Education

Columbia University, NY Ph.D Electrical Engineering

Columbia University, NY MS. Phil Electrical Engineering

Columbia University, NY Master of Science in Electrical Engineering

Columbia University, NY Bachelor of Science in Electrical Engineering

Professional Experience

Assistant Professor	College of Staten Island, Engineering Science/Physics Dept.	2003 - Present
Visiting Researcher	Columbia University, Center for Resilient Networks	2002 - 2003
Principal Engineer	3NE Solutions Inc., NY	2002 - 2003
Project Leader	Corning Inc., Photonics Research and Testing Center, NJ	2000 - 2002
Research Scientist	Corning Inc., Photonics Research and Testing Center, NJ	1998 - 2000
Visiting Researcher	Bellcore (Telcordia Technologies), NJ Optical Networking Group	1996 -1998

Selected Publications

- *Transport Metropolitan Optical Networking: Evolving Trends in the Architecture Design and Computer Modeling*, N. Antoniadis, I. Roudas, G. Ellinas, and J. Amin, *IEEE J. of Lightwave Technology*, Special Issue on Metro WDM Optical Networks, November 2004, vol. 22, no. 11, pp. 2653-2670.
- *Engineering an 11Tb/s US Metro Network: Design and Transport Performance*, N. Antoniadis, N. Madamopoulos, I. Roudas, M. D. Vaughn, and R. E. Wagner *Optical Networks Magazine*, July/August 2003, *OSA*, vol. 4, no. 4, pp. 92-100.
- *Value of Fiber Overlays in WDM Metro Networks*, F. Farjady, N. Antoniadis, M. J. Yadlosky, *IEEE Photonics Technology Letters*, March 2002, February 2003, vol.15, no. 2, pp. 329-33.
- *Accurate modeling of optical multiplexers/demultiplexers concatenation in multiwavelength optical networks*, I. Roudas, N. Antoniadis, T. Otani, T. E. Stern, R. E. Wagner, *IEEE J. Lightwave Tech.*, June 2002, vol. 20, no. 6, pp. 921-936.
- *PDL-induced channel power divergence in a metro WDM network*, M. Lee, N. Antoniadis, and A. Boskovic, *IEEE Photonics Technology Letters*, April 2002, vol. 14, no. 4, pp. 561-563.
- *Transport Performance of an 80-Gb/s WDM regional area transparent network utilizing directly modulated lasers*, I. Tomkos, R. Hesse, N. Madamopoulos, C. Friedman, N. Antoniadis, B. Hallock, R. Vodhanel, A. Boskovic, *IEEE J. of Lightwave Technology*, April 2002, vol. 20, no. 4, pp. 562-573.

- *Effects of filter concatenation for directly modulated transmission lasers at 2.5 and 10 Gbit/s*, J. Downie, I. Tomkos, , N. Antoniadis, and A. Boskovic, *IEEE J. of Lightwave Technology*, February, 2002, vol. 20, no. 2, pp. 218-228.
- *Performance Engineering and Topological Design of Metro WDM Optical Networks*, N. Antoniadis, A. Boskovic, I. Tomkos, N. Madamopoulos, M. Lee, I. Roudas, D. Pastel, M. Sharma, and M. Yadlowsky, *IEEE J. Selected Areas in Communications, Special Issue on WDM Based Optical Networks*, January 2002, vol. 20, no. 1, pp.149-165.

Patents

- A Parametric Wavelength Interchanging Cross-Connect (WIXC) Architecture, U.S patent # 5,825,517.
- Method and System for Detecting Loss of Signal in WDM Systems, U.S patent # 6,115,154.