

CURRICULUM VITAE

Tricha Anjali

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Educational Background

- Ph.D. 2004 Electrical and Computer Engineering
Georgia Institute of Technology, Atlanta, USA
Thesis title: DiffServ/MPLS Network Design and Management
Thesis advisor: Dr. Ian Akyildiz
- M.Tech 1998 Electrical Engineering
Indian Institute of technology, Bombay, India
Thesis title: Cell Scheduling in ATM Networks
Thesis advisor: Dr. S. C. Sahasrabudhe

Professional Experience

- Assistant Professor, Department of Electrical and Computer Engineering 08/04 - to date
 - Illinois Institute of Technology, Chicago, Illinois
 - Develop protocols for optical network operation
- Research Assistant, School of Electrical and Computer Engineering 01/00 - 04/04
 - Georgia Institute of Technology, Atlanta, Georgia
 - Design and implement protocols for MPLS network management
- Teaching Assistant, School of Electrical and Computer Engineering 01/03 - 04/03
 - Georgia Institute of Technology, Atlanta, Georgia
 - Assisted teacher in course ECE 6609: ATM Networks

Current Fields of Interest

Optical networks, routing and wavelength assignment, fault-tolerance, network management, network measurement

Professional Activities

- IEEE Communications Society member since 2000
- IEEE Women in Engineering member since 2003
- Reviewer
 - IEEE/ACM Transactions on Networking
 - Computer Networks
 - IEEE Infocom
 - IEEE Globecom
 - IEEE ICC

Publications

1. Tricha Anjali, Caterina Scoglio, Jaudelice de Oliveira, Ian Akyildiz, “New MPLS Network Management Techniques Based on Adaptive Learning,” to appear in *IEEE Transactions on Neural Networks*, 2004.
2. Tricha Anjali, Caterina Scoglio, “Traffic Routing in MPLS Networks based on QoS Estimation and Forecast,” to appear in *Proceedings of IEEE Globecom 2004*, Dallas, USA, December 2004.

3. Caterina Scoglio, Tricha Anjali, Jaudelice de Oliveira, Ian Akyildiz, George Uhl, "TEAM: A Traffic Engineering Automated Manager for DiffServ-based MPLS Networks," to appear in *IEEE Communications Magazine*, October 2004.
4. Tricha Anjali, Carlo Bruni, Daniela Iacoviello, Giorgio Koch, Caterina Scoglio, "Filtering and Forecasting Problems for Aggregate Traffic in Internet Links," to appear in *Performance Evaluation Journal*, October 2004.
5. Tricha Anjali, Caterina Scoglio, "Threshold-Based Policy for LSP and Lightpath Setup in GMPLS Networks," *Proceedings of IEEE ICC 2004*, Paris, France, June 2004.
6. Tricha Anjali, Caterina Scoglio, Ian Akyildiz, "LSP and λ SP Setup in GMPLS Networks," *Proceedings of IEEE Infocom 2004*, Hong Kong, P.R. China, March 2004.
7. Tricha Anjali, Carlo Bruni, Daniela Iacoviello, Giorgio Koch, Caterina Scoglio, Stefania Vergari, "Optimal Filtering in Traffic Estimation for Bandwidth Brokers," *Proceedings of IEEE Globecom 2003*, San Francisco, USA, December 2003.
8. Jose Marzo, Eusebi Calle, Caterina Scoglio, Tricha Anjali, "QoS On-Line Routing and MPLS Multilevel Protection: a Survey," *IEEE Communications Magazine*, vol. 41(10), pp. 126-132, October 2003.
9. Tricha Anjali, Caterina Scoglio, "TEMB: A Tool for End-to-End Measurement of Available Bandwidth in IP Networks," *Proceedings of IEEE ELMAR 2003*, Zadar, Croatia, June 2003.
10. Jose Marzo, Eusebi Calle, Caterina Scoglio, Tricha Anjali, "Adding QoS Protection in Order to Enhance MPLS QoS Routing," *Proceedings of IEEE ICC 2003*, Anchorage, USA, May 2003.
11. Tricha Anjali, Caterina Scoglio, George Uhl, "A New Scheme for Traffic Estimation and Resource Allocation for Bandwidth Brokers," *Computer Networks*, vol. 41(6), pp. 761-777, April 2003.
12. Ian Akyildiz, Tricha Anjali, Leonardo Chen, Jaudelice de Oliveira, Caterina Scoglio, Agatino Sciuto, Jeff Smith, George Uhl, "A New Traffic Engineering Manager for DiffServ/MPLS Networks: Design and Implementation on an IP QoS Testbed," *Computer Communications*, vol. 26(4), pp. 388-403, March 2003.
13. Tricha Anjali, Caterina Scoglio, Leonardo Chen, Ian Akyildiz, George Uhl, "ABEst: An Available Bandwidth Estimator within an Autonomous System," *Proceedings of IEEE Globecom 2002*, Taipei, Taiwan, November 2002.
14. Tricha Anjali, Caterina Scoglio, Ian Akyildiz, George Uhl, Agatino Sciuto, Jeff Smith, "draft-anjali-ippm-avail-band-measurement-00.txt," 55th IETF, Atlanta, USA, November 2002.
15. Tricha Anjali, Caterina Scoglio, Jaudelice de Oliveira, Leonardo Chen, Ian Akyildiz, Jeff Smith, "A New Path Selection Algorithm for MPLS Networks Based on Available Bandwidth Estimation," *Proceedings of QoFIS 2002*, Zurich, Switzerland, October 2002.
16. Tricha Anjali, Caterina Scoglio, Leonardo Chen, Ian Akyildiz, Jeff Smith, Agatino Sciuto, "MABE: A New Method for Available Bandwidth Estimation in an MPLS Network," *Proceedings of Networks 2002*, Atlanta, USA, August 2002.
17. Jaudelice de Oliveira, Caterina Scoglio, Tricha Anjali, Ian Akyildiz, George Uhl, "Design and Management Tools for a DiffServ-aware MPLS Domain QoS Manager," *Proceedings of SPIE ITCOM 2002*, Boston, USA, July 2002.
18. Tricha Anjali, Caterina Scoglio, Jaudelice de Oliveira, Ian Akyildiz, George Uhl, "Optimal Policy for Label Switched Path Setup in MPLS Networks," *Computer Networks*, vol. 39(2), pp. 165-183, June 2002.
19. Caterina Scoglio, Tricha Anjali, Jaudelice de Oliveira, Ian Akyildiz, George Uhl, "A New Threshold-Based Policy for Label Switched Path Setup in MPLS Networks," *Proceedings of 17th International Teletraffic Congress*, Salvador, Brazil, December 2001.
20. Jaudelice de Oliveira, Tricha Anjali, Benjamin King, Caterina Scoglio, "Building an IP Differentiated Service Testbed," *Proceedings of ICT 2001*, Bucharest, Romania, June 2001.