

Dr. Galen H. Sasaki, Associate Professor

Education

Ph.D. (1987) Electrical and Computer Engineering. University of Illinois at Urbana-Champaign.

M.S. (1984) Electrical and Computer Engineering. University of Illinois at Urbana-Champaign.

B.S. (1981) Electrical Engineering. University of Hawaii at Manoa.

Academic and Industrial Experience

1992 -- Present: Associate Professor, University of Hawaii at Manoa, 22 years starting from August 1992.

1987 – 1992: Assistant Professor, University of Texas at Austin, 5 years starting from August 1987.

2000: Contractor for Xros/Nortel Networks for 6 months while on sabbatical. As a contractor, Dr. Sasaki was a member of the network architecture group in Xros, a start up company that built optical crossconnect systems. Xros became part of Nortel Networks in the middle of 2000.

Consulting

2003: Consultant for Hokupaa.

1999--2001: Consultant for Fujitsu Laboratories of America

Patents

1. O. Gerstel, W.E. Hall, R. Ramaswami, and G. H. Sasaki, Fault management in a multichannel transmission system, Number 5729527, USA, 3/17/98.
2. R. Ramaswami and G. Sasaki, Multichannel ring and star networks with limited channel conversion, Number 6108311, USA, 8/22/00.

State(s) in which Registered: None

Professional Affiliations: Senior Member of the Institute of Electrical and Electronics Engineers (IEEE)

Honors and Awards:

- 1989 National Science Foundation, Presidential Young Investigator
- Boeing Faculty Award, College of Engineering, University of Hawaii, 1984
- Best Paper Award in SPIE Conference All-Optical Networking 1999: Architecture, Control, and Management Issues, Boston Sept. 1999.

Institutional and Professional Service (last five years):

- Associate Editor, IEEE Journal of Optical Communications and Networking, 2010-2013.
- Publicity Chair, IEEE International Symposium on Information Theory, Honolulu, 2014.
- TPC Co-Chair, Optical Networking and Systems Symposium of IEEE Globecom 2009.

Professional Development Activities (last five years): None

Certification: None

Principle Publications (last five years, i.e., since 2009)

1. C. Rozic and G. Sasaki, "The cost of loop free alternates in IP over WDM", *International Conference on Computing, Networking, and Communications (ICNC) 2014*, Honolulu, Feb. 2014.
2. C. Rozic and G. Sasaki, "Optical protection cost of IP fast reroute on a fully connected IP network over a WDM ring", *Optical Fiber Communication (OFC) Conference*, Los Angeles, CA, March 2011.
3. C. Rozic and G. Sasaki, "Protection costs of a fully connected IP core network over a WDM ring," *IEEE International Symposium on Advanced Networks and Telecommunication Systems (ANTS) Conference*, Mumbai, India, Dec. 2010.
4. O. Gerstel and G. Sasaki, "A general framework for service availability for bandwidth efficient connection oriented networks," *IEEE/ACM Transactions on Networking*, vol. 18, no. 3, April 2010, pp. 985-995.
5. G. Sasaki, K. Wang, and Y. Wang, "Fractional survivable network bandwidth: a comparison of IP over WDM schemes," *Proceedings of the Optical Fiber Communications (OFC) Conference*, San Diego, March 2010.
6. R. Ramaswami, K. Sivarajan, and G. Sasaki, *Optical Networks: A Practical Perspective, Third Edition*, Morgan-Kaufman, 2009.