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Lakshman Tamil

Professor - Electrical Engineering

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ECN3912
Faculty Homepage

Professional Preparation

M.S. - Mathematics
University of Rhode Island - 1989

Ph.D. - Electrical Engineering
University of Rhode Island - 1989

M.Tech. - Microwave and Optical Communications Engineering
Indian Institute of Technology, Kharagpur - 1983

B.E. - Electronics and Communications Engineering
Madurai Kamaraj University - 1981

Publications

S. Ostadabbas, R. Yousefi, M. Nourani, M. Faezipour, L. Tamil, and M. Pompeo, "A Resource-Efficient Planning for Pressure Ulcer Prevention," IEEE Transactions on Information Technology in BioMedicine (TITB), pp. 1265-1273, vol 16, no. 6, Nov 2012. 2012 - **Publication**

S. Bulusu, M. Faezipour, V. Ng, S. Banerjee, M. Nourani and L. Tamil,"Early Detection of Myocardial Ischemia Using Transient ST-Segment Episode Analysis of ECG," in Proceedings of the Southern Biomedical Engineering Conference (SBEC), (Arlington, TX), May 2011. 2011 - **Publication**

R. Yousefi, S. Ostadabbas, M. Faezipour, M. Nourani,V. Ng, L. Tamil, A. Bowling, D. Behan and M. Pompeo, "A Smart Bed Platform for Monitoring & Ulcer Prevention," in Proceedings of the IEEE International Conference on Biomedical Engineering and Informatics (BMEI), pp. 13731377, (Shanghai, China), Oct. 2011. 2011 - **Publication**

S. Bulusu, M. Faezipour, V. Ng, M. Nourani, L. Tamil and S. Banerjee, "Transient ST-Segment Episode Detection for ECG Beat Classification" in Proceedings of IEEE/NIH Life Science Systems & Applications Workshop (LISSA'11), pp. 121-124, April 2011. 2011 - **Publication**

R. Yousefi, S. Ostadabbas, M. Faezipour, M. Farshbaf, M. Nourani, L. Tamil and M. Pompeo, "Bed Posture Classification for Pressure Ulcer Prevention," in Proceedings of the International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), pp. 7175-7178, (Boston, MA), Aug. 2011. 2011 - **Publication**

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Appointments

CEO and CTO - *Yotta Networks, Inc.* [2000–2003]

Full Professor (with tenure) - *University of Texas at Dallas* [1999–Present]

Consulting Scientist - *Spike Technologies* [1997–1997]

Senior Scientist and Unit Manager - *Alcatel* [1997–1999]
Corporate Research Center

Consulting Scientist - *Alcatel Network Systems* [1994–1994]

Associate Professor (with tenure) - *University of Texas at Dallas* [1993–1999]

Assistant Professor - *University of Texas at Dallas* [1988–1993]

Projects

"Wireless healthcare monitoring,"

2007–2007 *Wireless healthcare monitoring, Dagstuhl Seminar 07462, Assisted Living Systems-Models, Architectures and Engineering Approaches, November 11-14, 2007, Schloss Dagstuhl, Internationales Begegnungs- und Forschungszentrum fur Informatik, Germany.*

"Body Area Sensor Network,"

2006–2006 *Body Area Sensor Network, Institute for Infocomm Research, A*STAR, Singapore, July 28, 2006.*

"Body Area Sensor Network,"

2006–2006 *Body Area Sensor Network, Indian Institute of Technology, Mumbai, India, June 19, 2006.*

"Wireless sensor network for remote health monitoring,"

2007–2007 *Wireless sensor network for remote health monitoring, Antenna and Propagation Society, Dallas Chapter, May 16, 2007.*

"Sensor network for remote health monitoring,"

2007–2007 *Sensor network for remote health monitoring, UTD Conf. on Unlocking RFIDs Real Value, Jointly organized by Schools of Management and Engineering, UTD, June 19, 2007. (coauthors: G. Gupta and S. Sethi)*

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Additional Information

Grants and Fundings

- " Multi-Terabit Hybrid Optical Switching Subsystem: design, development and marketing", Yotta networks, Inc. 3 rounds of Venture funding, Period: 01/2000-10/2003, Amount: $ 40,000,000. (approx.)
- "Shepered WDM Soliton Transmission," NASA Graduate Fellowship for Everardo Ruiz, Period: 2001-2003, Amount: $ 45,000.
- "IP Burst Switch Under Self-similar Traffic Conditions," Alcatel, Richardson, TX, Period: 01/99-12/99, Amount: $ 25,000.
- "Architectural and Control Issues in Optical IP Routers," Alcatel, Richardson, TX, Period: 01/99-12/99, Amount: $ 25,000.
- "Impact of CATV on Optical Layer," Alcatel, Richardson, TX, Period: 01/98-12/98, Amount: $ 25,000. LAKSHMAN S. TAMIL - December 2007 16
- "Nomadic Wireless Networking for DoD Training Ranges," Raytheon-E System, Richardson, TX, Period: 01/97-12/97. Amount: $ 20,000.
- "Hybrid Embedded Antenna Analysis," Texas Instruments Inc.McKinney, TX, Period: 01/96-12/96, Amount: $ 25,000.
- "Electromagnetic Inverse Scattering Theory Applications to Communication and Sensing," Office of Naval Research, Arlington, VA, Contract # N00014-92-J-1030, Period: 02/95-03/98, Amount: $ 155,000.
- "Spectral Inverse Scattering Theory for Dielectric Media: Application to Optical Devices," Office of Naval Research, Arlington, VA, Contract # N00014-92-J-1030, Period: 10/91-09/94, Amount: $ 172,260.
- "Dispersion Compensation for Next Generation Communication System," Alcatel Network Systems, Richardson, TX. Contract #: PO 194662, Period 07/91-06/92, Amount; $ 24,946.
- "Instructional and Research Laboratory in Optical Fiber Communication," Chancellor's Grant, The University of Texas System, Austin, TX, UTD90-39, Period 04/90-12/91, Amount: $7,000.
- "Design of Multimode Planar Optical Waveguides with Minimum Dispersion by an Inverse Scattering Method," Naval Research Laboratory , Washington, DC. Contract # N000173-89-MH691, Period 08/89-09/91, Amount: $ 5,000.

Honors and Awards

- Alcatel Award of recognition for his scientific and management contributions to Terabit IP Optical Router Project.

News Articles

Optical Society Recognizes Profs Research Successes

Two UT Dallas faculty members have been elected fellows of the Optical Society of America for their pioneering work in decidedly high-tech areas of the field of optics. Dr. Duncan MacFarlane was recognized for his “contributions to advancing integrated optics and their applications, including photonic filters, advanced displays and micro-optics.” Dr. Lakshman Tamil was recognized “for significant contributions to the design and development of multi-terabit switches using photonic-electronic hybrid sub-wavelength switching.” Both are professors of electrical engineering in the University’s Erik Jonsson School of Engineering and Computer Science.