



Sridhar Radhakrishnan

RESEARCH INTERESTS

Design, implementation and analysis of network algorithms and protocols for wireless sensor networks, mobile computing, cloud computing, and broadband networks.

BIOGRAPHY

Dr. Sridhar Radhakrishnan is a Professor and Director of the School of Computer Science at the University of Oklahoma, where he joined in 1990. He received his PhD in Computer Science from Louisiana State University in 1990. His research interests are in the areas of protocol design for wireless and mobile computing, power aware protocols in mobile networks, algorithms for quality of service routing in broadband networks, and resource allocation problems in wireless networks. He is currently leading an interdisciplinary research program to address on a global scale the security issues dealing with the transport of shipping containers. He has published over 100 research articles in journals, conference proceedings, and book chapters.

Education

PhD, Computer Science
Louisiana State University, 1990
MS, System Sciences
Louisiana State University, 1987
MLIS, Library and Information
Science
University of South Alabama,
1986
BS, Computer Science
University of South Alabama,
1985
BS, Physics
Vivekananda College,
University of Madras, 1983

Experience

Professor
University of Oklahoma
Associate Professor
University of Oklahoma
Assistant Professor
University of Oklahoma

AWARDS, HONORS AND PROFESSIONAL ACTIVITIES

Member: IEEE, ACM.
Program committee member and reviewer for professional society conferences.

SELECTED PROJECTS

Federal Transit Administration, "Improving Para-Transit Operations with Technology," Aug 2005-Sep 2011.

Federal Highway Administration, "Intermodal Containerized Freight Security Research Initiative," Oct 2006-September 2011.

SELECTED PUBLICATIONS

"Energy-efficient routing in Wireless Sensor Networks for delay sensitive applications," *International Journal of Ad Hoc and Ubiquitous Computing*, 5(2), pp. 103-116, 2010 (with Pavan K. Pothuri, Divya L. Ranganathan, Venkatesh Sarangan)

"Online Energy Aware Routing in Wireless Networks," *Journal of Ad Hoc Networks*, 7(5), pp. 918-931, July 2009 (with Aravind Mohanoor and Venkatesh Sarangan).

"Implementation of Distributed Floor Control Protocol on Overlay Networks," *IEEE Transactions on Parallel and Distributed Systems*, 19(8), pp. 1057-1070, Aug 2008 (with Shankar M Banik, Venkatesh Sarangan, Chandra N Sekharan).

"A Framework for Fast RFID Tag Reading in Static and Mobile Environments," *Computer Networks Journal*, 52(5), pp. 1058-1073, April 2008 (with Venkatesh Sarangan and Mallareddy Devarapalli).

"Multicast Routing with Delay and Delay Variation Constraints for Collaborative Applications on Overlay Networks," *IEEE Transactions on Parallel and Distributed Systems*, 18(3), pp. 421-431, March 2007 (with Shankar M. Banik and Chandra N. Sekharan,).

"Cost Optimization in SIS Model of Worm Infection," *ETRI Journal*, 28(5), pp. 692-695, Oct 2006 (with Jonghyun Kim and Jongsoo Jang).