

# Muralidhar Medidi

Professor & Chair

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## Professional Preparation

- Ph.D., Computer Science, University of Central Florida, Orlando, May 1994
- M.Tech., Computer Engineering, Indian Institute of Technology, Kharagpur, January 1986
- B.Tech., Electronics & Communications Engineering, J.Nehru Tech University, Kakinada, Sep 1983

## Appointments

- Professor & Chair, Computer Sciences, Georgia Southern University, Statesboro, July 2013 - present
- Professor & Chair, Computer Science, Boise State University, Boise, Jan 2008 - Jun 2013
- Associate Professor, Computer Science, Washington State University, 2002 - Dec 2007
- Assistant Professor, Assoc. Professor & Dept. Chair (2000-'02), Computer Science, Northern Arizona University, Flagstaff, 1994-'02
- Graduate Research/Teaching Assistant, Computer Science, University of Central Florida, 1988-94
- Project Engineer, Aeronautical Development Agency, Bangalore, 1987-88
- Lecturer, Computer Science, J.Nehru Technological University, 1986-87

## Publications

Five Related to Current Research Interests:

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- S. Medidi, V. Nandanavanam and M. Medidi, "Reliable Sensor-to-Sink Data Transfer with Duty Cycles for Wireless Sensor Networks." In *Proc. of IEEE Intl. Conference on Local Computer Networks (LCN)*, October 2011.
- J. Wang, S. Medidi and M. Medidi, "Energy-Efficient Coverage for Sensor Networks with Variable Sensing Radii," In *Proc. of IEEE Global Telecommunications Conf. (GLOBECOM)*, Dec. 2009.
- C. Mallery, S. Medidi, and M. Medidi, "Relative Localization with 2-hop Neighborhood." In *Proc. of IEEE Intl. Symposium World of Wireless, Mobile and Multimedia Networks (WoWMoM)*, June 2008.
- Y. Zhou and M. Medidi, "Energy-efficient Contention-Resilient Medium Access for Wireless Sensor Networks." In *Proc. of IEEE Intl. Conference on Communications (ICC)*, pp. 3178-83, June 2007.

Y. Zhou and M. Medidi, "Sleep-based Topology Control for Wakeup Scheduling in Wireless Sensor Networks." In *Proc. of 4th IEEE Intl. Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON)*, pp. 304 - 313, June 2007.

Five Other Publications:

Y. Zhou and M. Medidi, "An Energy-Aware Multi-hop Tree Scatternet for Bluetooth Networks." In *Proc. of IEEE Intl. Conference on Communications (ICC)*, pp. 5564 - 5569, June 2007.

M. Medidi and Y. Zhou, "Maintaining an Energy-efficient Bluetooth Scatternet." In *Proc. of 25th IEEE Intl. Performance, Computing and Communications Conference (IPCCC)*, pp. 177–184, April 2006.

M. Medidi, R. Slaaen, Y. Zhou, C. Mallery, and S. Medidi, "Scalable Localization for Wireless Sensor Networks." In *Proc. of IEEE Intl. Conference on High Performance Computing (HiPC)*, , Dec 2006.

M. Medidi and J. Campbell, "Energy-efficient Bounded-diameter Tree Scatternet for Bluetooth PANs." In *Proc. of IEEE Conference on Local Computer Networks (LCN)*, pp. 268–275 , November 2005.

M. Medidi & N. Deo, "Parallel Dictionaries using AVL trees." *Journal of Parallel and Distributed Computing* (Special Issue on Parallel Data Structures), vol. 49, pp. 146-155, 1998.

**Synergistic Activities**

- Member of the Technical Program Committee:  
*Intl. Conf. on Computers & Information (ICCI)*, 1995-98.  
*IEEE Intl. Performance, Computing & Communications Conference (IPCCC)*, 2000-01.  
*IEEE GLOBECOM* 2006, 2008-2015.  
*IEEE Intl. Conference on Communications (ICC)*, 2007 & 2009-2015.  
*IEEE 67th Vehicular Technology Conf. (VTC-Spring)*, 2008.  
*IEEE Intl. Conf. on Parallel and Distributed Systems (ICPADS)*, 2008 & 2010.  
*IEEE Intl. Conf. Sel. Topics in Mobile & Wireless Networking (iCOST & MoWNet)*, 2011-2014.  
*IEEE Intl. Wirelss Communications & Mobile Computing Conf. (IWCMC)*, 2011-2015.
- Member of the IEEE Computer Society's *Chapter Activities Board (CAB)*, 1999-2002.
- NSF Panelist: *Single Investigator Sensor Networks (SISN)*, June 2004.  
*Integrative Systems*, May 2005. *CSR*, March 2010.
- Georgia Southern University Representative, GRU Cyber Education Summit, 2014 & 2015.

**Collaborators & Other Affiliations**

M. Casado (Stanford Univ.), N. Chandrasekharan (Loyola Univ. of Chicago), J. Ding (BroadCom), P. Dudas (IBM), D. Grossman (Illinois Institute of Technology), T. Henderson (Univ. of Utah), R. Hiromoto & A. Krings (Univ. of Idaho), S. Prasad (Georgia State Univ.), A. Sagahyroon (American Univ. Sharjah), M. Neville & J. Placer (Northern Arizona Univ.), D. Bakken, A. Bose, D. Cook, J. Delgado-Frias, C. Hauser, L. Holder & B. Shirazi (Washington State Univ.) and A. Jain & S. Loo (Boise State Univ.)

**Graduate Advisors:** Narsingh Deo (PhD advisor)

**Graduate Advisees:**

J. Campbell (MS, May 2005), A. Daptardar (MS, May 2004), S. Deenadayalan (MS, Nov. 2012), S. Garg ( MS, Dec. 2004), G. Garudapuram (MS June 2008), M. Kohagura (MS May 2008) , S. Kuchipudi (MS, Nov. 2012), C. Mallery (PhD, June 2008), T. Nguyen (MS, June 2005), R. Slaaen (MS, May 2006), B. Thind (MS, May 2004), Y. Zhou (PhD, July 2007), and Y. Zhu (MS, Dec. 2006).