

Shivakumar Sastry, Ph.D.

Department of Electrical and Computer Engineering

The University of Akron, Akron, OH 44325-3904

Tel: +1-330 972 7646 (office), +1-216 926 7627 (cell, USA), +91-99720 13935 (cell, India)

Email: ssastry@uakron.edu

Professional Preparation

- B.E. Electronics Engineering, Bangalore University 1984
- M.S. Electrical Engineering, Indian Institute of Science 1987
- M.S. Computer Science, University of Central Florida 1992
- Ph.D. Case Western Reserve University 1998

Appointments

- 2018 – present Director, Strategic Initiatives, University of Akron
- 2017 – present Professor, Electrical and Computer Engineering, University of Akron
- 2008 – 2016 Associate Professor, Electrical and Computer Engineering, University of Akron
- 2002 – 2008 Assistant Professor, Electrical and Computer Engineering, University of Akron
- 2006 – 2018 Academic Director, Center for Data Science & IT, University of Akron
- 2011 – 2017 Adjunct Associate Professor, EECS, Case Western Reserve University
- 2001 – 2002 Architecture and Systems Consultant
- 1994 – 2001 Senior Research Scientist, Advanced Technology Group, Rockwell Automation
- 1991 – 1994 Senior Consultant, GE Consulting Services
- 1990 – 1991 Systems Engineer, IntelliSys, Inc.
- 1988 – 1990 Graduate Research/Teaching Assistant, University of Central Florida
- 1987 – 1987 Software Engineer, Macmet India Pvt. Ltd.
- 1985 – 1987 Research Student Scholarship, Indian Institute of Science

Example Publications

1. S. Sastry, *Coordinated Conveying*, (accepted), IEEE 22nd International Symposium on Real-time Computing, Valencia, Spain, May 2019.
2. B. Tran, M. Elamin, N. Tran and S. Sastry, *Performance Analysis of Software Defined Network Concepts in Networked Embedded Systems*, Mobile Networks and Applications, Special Issue on Emerging Techniques and Applications for 5G Networks and Beyond, Springer, August 2019.
3. S. Whalen, A. Ghosh and S. Sastry, *Object Oriented Simulation of Coordinated Conveying Systems*, Journal of Supercomputing, Vol. 73, No. 4, pp. 1416-37, April 2017.
4. S. Sastry and A. Gokhale, *Resolving Priority Inversions in Composable Conveyor Systems*, Journal of Systems Architecture, Vol. 60, No. 6, 2014, pp. 509-518.
5. K. An, A. Trewyn, A. Gokhale and S. Sastry, *Model-driven Performance Analysis of Reconfigurable Conveyor Systems used in Material Handling Applications*, International Conference on Cyber-Physical Systems, Chicago, April 2011.

6. A. Mahamadi, M. Chippa and S. Sastry, *Reservation Based Protocol for Resolving Priority Inversions in Composable Conveyor Systems*, Journal of Systems Architecture, Vol 74, pp. 14-29, March 2017.
7. A. Ibrahim, S. Sastry and P.S. Sastry, *Discovering Compressing Serial Episodes from Event Sequences*, Knowledge and Information Systems, Vol. 47, No. 2, pp. 405-432, May 2016.
8. S. Sastry and S.K. Das, *Predictable Delivery of Prioritized Multihop Message Streams in Wireless Systems*, IEEE Transactions on Wireless Communications, Vol. 14, No. 9, pp. 4822-4834, September 2015.
9. K.K. Mamidisetty, M. Duan, S. Sastry and P.S. Sastry, *Multipath Dissemination in Regular Mesh Topologies*, IEEE Transactions on Parallel and Distributed Systems, Vol. 20, No. 8, August 2009, pp. 1188-1201.
10. H. Zia, N. Sridhar and S. Sastry, *Failure Detectors for Wireless Sensor Actuator Systems*, Ad Hoc Networks, Vol. 7, Issue 5, July 2009, pp. 1001-1013.

Synergistic Activities

1. Actively engaged in academic review activities at University of Akron; co-led campus-wide Academic Program Review 2016-18; leading new efforts to create Academic Research Clusters.
2. IEEE Transactions on Automation Science and Engineering, Associate Editor (2015-18); Conference Editorial Board, Associate Editor (2009-12), Track Co-Chair for Networked Control Systems (2011), Workshop Chair (2010) and Finance Co-Chair (2009)
3. Advanced Manufacturing Partnership 2.0, Sub team for Visualization, Informatics, and Data Management, PCAST Report, October 2014.
4. Several technology advancement and investigation projects completed between 1991 and 2001 as a member of Advanced Technology groups in Rockwell Automation and Xerox Corporation.
5. Senior Member, IEEE