

Syracuse University

EECS/CASE Colloquium

Professor Sanjeev Kulkarni
Princeton University

Time: 1:30 pm, Wednesday, March 28 2007

Place: Link 369

Distributed Learning in Sensor Networks

Abstract: One of the key challenges for sensor networks is learning and high-level decision-making. These tasks must be accomplished in a distributed setting and in the face of scarce resources (time, bandwidth, and power). This talk describes some of our recent work in this area. Specifically, we describe some results on a problem of aggregating probability forecasts and use a similar approach for learning in a distributed setting that combines ideas from kernel methods and graphical models.

Speaker Bio: Sanjeev Kulkarni received the B.S. in Mathematics, B.S. in E.E., M.S. in Mathematics from Clarkson University in 1983, 1984, and 1985, respectively, the M.S. degree in E.E. from Stanford University in 1985, and the Ph.D. in E.E. from M.I.T. in 1991. From 1985 to 1991 he was a Member of the Technical Staff at M.I.T. Lincoln Laboratory. Since 1991, he has been with Princeton University where he is currently Professor of Electrical Engineering. He is also an affiliated faculty member in the Department of Operations Research and Financial Engineering and the Department of Philosophy. Prof. Kulkarni served as Associate Dean in the School of Engineering and Applied Science from 2003-2005 and has been serving as Master of one of Princeton's residential colleges since 2004. He spent January 1996 as a research fellow at the Australian National University, 1998 with Susquehanna International Group, and Summer 2001 with Flarion Technologies.

Prof. Kulkarni received an ARO Young Investigator Award in 1992, an NSF Young Investigator Award in 1994, and several teaching awards at Princeton University. He is an IEEE Fellow and has served as an Associate Editor for the IEEE Transactions on Information Theory. Prof. Kulkarni's research interests include statistical pattern recognition, nonparametric statistics, learning and adaptive systems, information theory, wireless networks, and image/video processing.

For parking, please call Brenda at 315-443-4408. Refreshments will be served.

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