

# SHREESH P. MYSORE, PH.D

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## Education

- 11.2006-to date** Postdoctoral Scholar, Neurobiology, Stanford University. *Advisor:* Dr. El Knudsen.
- 11.2006** Ph.D., Control and Dynamical Systems, Caltech. *Advisors:* Dr. EM Schuman & Dr. SR Quartz.
- 06.2000** M.A., Mathematics, Pennsylvania State University. *Supervisor:* Dr. Y Pesin.
- 06.1999** M.S., Industrial Engg., Pennsylvania State University. *Advisors:* Dr. SRT Kumara & Dr. CR Rao.
- 06.1997** B.Tech., Mechanical Engg., Indian Institute of Technology Madras. *Supervisor:* Dr. V Radhakrishnan.

## Honors & Awards

- Society for Neuroscience Postdoctoral Fellow Travel Award administered by C-WIN, (2008).
- Dean's Postdoctoral Fellowship, Stanford University School of Medicine, (2008-2009).
- Tenure-track faculty position in the School of Industrial Engineering at Purdue University (*Declined, 2006*).
- Science and Technology Council Postdoctoral Fellowship at Princeton University (*Declined, 2006*).
- Interviewed by the Harvard Society of Fellows for the 2006-2009 Junior Fellowship (*October 2005*).
- IEEE Computational Intelligence Society Student Travel Grant for IJCNN (*August 2005*).
- Best poster award at JSNC (co-winner with Dirk Walther) (*May 2005*).
- Santa Fe Institute travel award for mathematical modeling workshop (*July 2003*).
- Cold Spring Harbor Lab travel award for workshop on theoretical neuroscience (*July 2003*).
- Engineering and Applied Sciences Fellowship, California Institute of Technology (2000-2001).
- Cash award, GE Transportation Systems, for contribution during internship (*August 1999*).
- K. C. Mahindra Education Trust scholarship for study abroad (1997).
- J. N. Tata Endowment scholarship for study abroad (1997).
- 1st prize for presentation "Pattern recognition and automated inspection in manufacturing-An overview" (1997).

## Publications

- **Mysore SP**, Tai C-Y, and Schuman EM, 2008. "N-cadherin, spine dynamics, and synaptic function", *Frontiers in Neuroscience*, 2: 168-175
- **Mysore SP**, Tai C-Y, and Schuman EM, 2007. "Effects of N-cadherin disruption on spine morphological dynamics", *Frontiers in Cellular Neuroscience*, 1: 1-14
- Tai C-Y, **Mysore SP**, Chiu C, and Schuman EM, 2007. "Activity-regulated N-cadherin endocytosis", *Neuron*, 54(5):771-785.
- **Mysore SP**, and Quartz SR, 2005. "Modeling structural plasticity in the barn owl auditory localization system with a spike-time dependent Hebbian learning rule", *Proc. International Joint Conference on Neural Networks*, Montreal.
- Shultz TR, **Mysore SP**, and Quartz SR, 2007. "Why let networks grow?", in *Constructing Cognition: How the Brain Develops Representations Vol II. Perspectives and Prospects*, 65-98, OUP.
- Goebel K, and **Mysore SP**, 2002. "Factoring in a-priori classifier performance into decision fusion", *Proc. SPIE, Sensor Fusion: Architectures, Algorithms, and Applications VI*, 10-21.
- Goebel K, and **Mysore SP**, 2001. "Taking advantage of misclassifications to boost classification rate in decision fusion", *Proc. SPIE, Sensor Fusion: Architectures, Algorithms, and Applications V*, 11-20.
- Kumara SRT, Suh J, and **Mysore SP**, 1999. "Machinery fault diagnosis and prognosis: application of advanced signal processing techniques", *CIRP Annals*, Vol. 48/1, 317-320.

## Abstracts

- **Mysore SP**, and Knudsen EI, 2008. "Stimulus competition in the GABA-ergic isthmus nucleus (Imc) in the barn owl midbrain", *Society for Neuroscience Annual Meeting*, Washington, D.C..
- **Mysore SP**, and Knudsen EI, 2007. "Functional properties of the nucleus isthmi pars magnocellularis (Imc) in the barn owl midbrain", *Society for Neuroscience Annual Meeting*, San Diego.
- **Mysore SP**, and Sutton MA, and Schuman, EM, 2006. "Regulation of spine morphological dynamics by miniature synaptic events", *Society for Neuroscience Annual Meeting*, Atlanta.
- **Mysore SP**, and Tai C-Y, and Schuman EM, 2005. "Regulation of spine dynamics and synaptic structure by N-cadherin", *Society for Neuroscience Annual Meeting*, Washington DC.

- **Mysore SP**, and Quartz SR, 2005. "Plasticity in the barn owl auditory localization system: A spiking neuronal model", *12th Joint Symposium on Neural Computation*, UCLA, Los Angeles.
- **Mysore SP**, and Sutton MA, and Schuman EM, 2004. "Large scale analysis dendritic spine motility", *Society for Neuroscience Annual Meeting*, San Diego.
- **Mysore SP**, and Quartz SR, 2004. "Structural plasticity and auditory localization in barn owls - A firing rate model.", *Computational and Systems Neuroscience (CoSyNe)*, Cold Spring Harbor Laboratory.