

TechniGraphicS Lecture Series

IIT Bombay and TechniGraphicS Foundation invite you to the TechniGraphicS Lecture on Thursday, January 12, 2012.

The details of the lecture are as follows:



Topic : **“Project Prakash: Illuminating Lives; Illuminating Science”**

Speaker: **Prof. Pawan Sinha**
Professor of Vision and Computational Neuroscience
Department of Brain and Cognitive Sciences
MIT, Cambridge, MA

Date : Thursday, January 12, 2012

Time & Venue : 5.15 pm, P.C. Saxena Auditorium, IIT Bombay

All are invited.

Abstract : Speaker will describe the Prakash initiative that has allowed to pursue a humanitarian mission in India while at the same time yielding insights regarding deep scientific questions about brain plasticity and learning. The presentation will be geared towards a broad audience.

About the Speaker : Research in the Sinha laboratory in the Department of Brain and Cognitive Sciences focuses on the issue of the computational principles that underlie our impressive recognition abilities using a combination of experimental and computational modelling techniques. The two specific questions that the lab is currently exploring are: (1) What is the nature of the object representations in the brain?, (2) How can object representations be learned from visual experience? The Sinha lab is addressing the first question by examining the nature of information that the brain uses for recognising important classes of objects such as faces. Prof. Sinha has published the following:

- Visual parsing after recovery from blindness. Psychol Sci. 2009 Dec 1;20(12):1484-91. Epub 2009 Nov 2.
- Challenges in object recognition: selectivity vs invariance. Perception. 2009;38(6):820-1; discussion 824-5.
- The role of sequence order in determining view canonicality for novel wire-frame objects. Atten Percept Psychophys. 2009 May;71(4):712-23.
- Role of ordinal contrast relationships in face encoding. Proc Natl Acad Sci U S A. 2009 Mar 31;106(13):5353-8. Epub 2009 Mar 10.

About TechniGraphicS Lecture Series

The TechniGraphicS Lecture Series is made possible by a generous donation from the TechniGraphicS Foundation. Deepak Vaidya (IITB Alumnus of 1970, Chemical Engineering) is one of the trustees of the foundation and also the founder and chairman of TechniGraphicS.

Past TechniGraphicS Lectures:

A case study of Basic Research and Core Technology by Prof. Robert Gallager, MIT, USA on September 29, 2008.

Remembering Dr. Homi Jehangir Bhabha by Prof. Devendra Lal, Scripps Institute of Oceanography, San Diego, USA on 22nd January 2009.

Scaling Limits of Large Systems by Prof. S.R.S. Varadhan, Courant Institute of Mathematical Sciences, New York, USA. on 11th February 2009.

Leonhard Euler -- his life, personality, discoveries and their impact today by Prof. Dr. Rolf Jeltsch, ETH, Zurich, Switzerland on November 23, 2009.

Modular Biocatalysis by Prof. Chaitan Khosla, Departments of Chemical Engineering, Chemistry and Biochemistry, Stanford University, USA on September 9, 2010.

From Ape to Angel: A Neurological Perspective on Human Nature by Dr. V.S. Ramachandran, MD, Ph.D., Distinguished Professor and Director, Center for Brain and Cognition, University of California San Diego and Salk Institute, on December 7, 2010.

“And Logic Begat Computer Science: When Giants Roamed the Earth” by Prof. Moshe Y. Vardi, Karen Ostrum George Professor in Computational Engineering, Rice University, USA and Director, Ken Kennedy Institute for Information Technology, on December 15, 2011.