

Sudheendra Vijayanarasimhan

Department of Computer Sciences
University of Texas at Austin
1 University Station C0500, CSA 1.106
Austin, TX 78712 USA

svnaras@cs.utexas.edu
<http://www.cs.utexas.edu/~svnaras/>

EDUCATION

University of Texas at Austin, Austin, TX
4th year Ph.D student, August 2006 - Current
Thesis: Active Visual Category Learning
Supervised by Prof. Kristen Grauman
GPA: 3.758/4.0 (*end of 6th semester*)

Indian Institute of Technology Madras, Chennai, India
B.Tech in Computer Science and Engineering
Thesis: A Study of the Memory Performance of Systems
Supervised by Prof. Kamakoti V.
GPA: 8.82/10.0

RESEARCH INTERESTS

Computer vision, Object recognition, Supervision requirements in learning: Active learning, Unsupervised, Semi-supervised learning, Machine learning and applications in Computer vision.

APPOINTMENTS

Research Assistant (2008-current):

Department of Computer Sciences, University of Texas at Austin
Proposed and implemented several multiple-instance learning and active learning based techniques for object categorization.

Research Intern (Summer 2008):

Adaptive Systems and Interaction Group, Microsoft Research, Redmond
Proposed and implemented a novel object detection model that enables active feature selection during detection.

Research Assistant (2004-2006):

Department of Computer Sciences, Indian Institute of Technology, Madras, India
Quantified the effect of register spills on the memory performance of x86 systems using the SimpleScalar simulator on the Spec95 benchmark programs.

Software Intern (Summer 2005):

Intel, Design and Testing Group, Bangalore, India
Developed a simple language and its perl-based interpreter as a front-end for a functional test generation unit and modified the unit to include more features.

Research Intern (Summer 2004):

Intel, Design and Testing Group, Bangalore, India
Studied and implemented an approach that statically finds new implications in a circuit using contrapositivity and incorporated it into an existing ATPG engine to aid fault propagation and justification.

TEACHING EXPERIENCE

Teaching Assistant (Fall 2007):

Assisted Prof. Grauman for a graduate course (Computer Vision) and graded assignments, projects and finals.

PUBLICATIONS

S. Vijayanarasimhan and K. Grauman. “What’s It Going to Cost You?: Predicting Effort vs. Informativeness for Multi-Label Image Annotations” , In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Miami, June 2009.

S. Vijayanarasimhan and K. Grauman. Multi-Level Active Prediction of Useful Image Annotations for Recognition. Advances in Neural Information Processing Systems (NIPS), Vancouver, Canada, December 2008. (**oral presentation, 3% acceptance rate**)

S. Vijayanarasimhan and K. Grauman. Keywords to Visual Categories: Multiple-Instance Learning for Weakly Supervised Object Categorization. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Anchorage, AK, June 2008.

TALKS AND INVITED WORKSHOPS

The Learning Workshop, Clearwater, FL, April 2009

Cost Sensitive Active Visual Category Learning

Neural Information Processing Systems, Vancouver, Canada, Dec 2008

Multi-Level Active Prediction of Useful Image Annotations

Semantic Robot Vision Challenge Workshop, Anchorage, June 2008

Keywords to Visual Categories: Multiple-Instance Learning for Weakly Supervised Object Categorization

AWARDS AND ACHIEVEMENTS

- Dean’s Excellence Award from the College of Natural Sciences at UT, Austin
- Microelectronics and Computer Development Fellowship, Department of Computer Science, UT, Austin awarded to the top 10% of incoming students
- Deans Award (IITM) for securing high rank in JEE
- 3rd in Google sponsored Shaastra Programming Contest, an inter-collegiate event in IIT Madras.
- Merit certificate and scholarship for being in the top 0.1% in the 12th CBSE board
- IIT-JEE AIR (All India Rank) 28 among 1,50,000 students
- Top 1% among 22,000 students in the Physics Olympiad held at National Level by Indian Association of Physics in 2000

SERVICE

- Program committee for IEEE International Conference on Computer Vision (ICCV) 2009
- Program committee for IEEE Computer Vision and Pattern Recognition (CVPR) 2009