

PhD in Robotics (Expected 2012)
Robotics Institute, Carnegie Mellon University, USA.
Advisors: Martial Hebert, Alexei (Alyosha) Efros

M.S. in Computer Science July 2007
International Institute of Information Technology (IIIT), Hyderabad, India

B.Tech in Computer Science July 2006
International Institute of Information Technology, (IIIT), Hyderabad, India
**Gold Medalist (for highest GPA amongst the graduating class)*

Research Experience

- Robotics Institute, Carnegie Mellon University (Fall'07 to present): Single-image scene understanding and Context-driven scene recognition & object detection
- Center for Visual Information Technology, IIIT Hyderabad (Fall'04 to Spring'07): Vision-based Robot Exploration and Navigation, Visual Servoing

Selected Publications

- Santosh K. Divvala, Derek Hoiem, James H. Hays, Alexei A. Efros and Martial Hebert. "An Empirical Study of Context in Object Detection", **CVPR'09**
- Derek Hoiem, Santosh K. Divvala, James Hays. "A Unified Framework for Classification, Detection and Segmentation", *Pascal VOC'08 Challenge*, **ECCV'08**
- Santosh K. Divvala, Alexei A. Efros and Martial Hebert. "Can Similar Scenes help Surface Layout Estimation?", *Internet Vision Workshop*, **CVPR'08**
- Santosh K. Divvala, A. Supreeth and CV Jawahar. "Autonomous Image-based Exploration for Mobile Robot Navigation", **ICRA'08**
- Santosh K. Divvala and CV Jawahar. "Visual Servoing in Non-Rigid Environments: A Space-Time Approach", **ICRA'07**
- Santosh K. Divvala and CV Jawahar. "Robust Homography-based Control for Camera Positioning in Piecewise Planar Environments", *5th Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP) 2006*
- Santosh K. Divvala and CV Jawahar. "Visual Servoing in presence of Non-Rigid Motion", **ICPR'06**

Professional/Academic Experience

- Research Assistant, Vision and Mobile Robotics Lab, CMU. Implemented the KIST Object Recognition system in C++ and analyzed its performance (Fall'07, Summer'08)
- Teaching (CMU): *Computation Photography (fall'08)* taught by Prof. Alexei A. Efros. Responsibilities included giving lectures/tutorials, grading assignments & exams and holding office hours
- Teaching (IIITH): *Pattern Recognition (spring'05)*, *Signal Processing (fall'04)* & *Engineering Mathematics (spring'04)*. General responsibilities included conducting weekly recitations, grading homeworks & exams
- Research Intern, Imaging Technologies Lab, GE Global Research, India. Devised and implemented algorithms (in C++) for tracking of neuro-vascular arteries (Summer'05)
- Finance Secretary, IIITH Students' Finance Council (2004 - 2006)

Computing Skills

- Languages: Matlab (Distributed computing), C/C++, OpenCV, HTML, LATEX
- Systems: Linux/Unix, Microsoft Windows

Honors and Achievements

- PASCAL Visual Object Class Challenge Honorable Mention, Fall 2008
- Research Assistantship for Ph.D. studies, Robotics Institute, CMU (2007-present)
- Research Assistantship for Master's studies, IIIT Hyderabad, India (2006-2007)

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- IIIT Gold Medal for obtaining the highest GPA in the Graduating Class of B.Tech 2006
 - IIIT Dean's award for academic excellence in all undergrad semesters (2002-2006)
 - Pratibha Scholarship, Govt of A.P., India for pursuing undergrad studies (2002-2006)
 - High School Student Scholarship (2000-2002)