

Siva Prasad Varma Chiluvuri

AG14, Govind Bhawan
IIT Roorkee
Uttarakhand, 247667

+91-9557020908
spv@ieee.org
www.sivaprasadvarma.in

RESEARCH INTERESTS	Statistical Signal Processing, Image Processing, Information Theory.
EDUCATION	<p>Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India.</p> <p>V^{th} year, Integrated Dual Degree July 2009 – present <i>B.Tech. in Electronics & Communication Engineering and M.Tech. in Wireless Communication</i></p> <ul style="list-style-type: none">Expected graduation date: June 2014CGPA: 8.9/10Relevant Courses: Digital Signal Processing(A+), Information & Communication Theory(A+), Artificial Neural Networks(A), Adaptive Signal Processing(A), Discrete Mathematical Structures(A+), Algorithms(Coursera).Thesis: Recovery of Structured Sparse Signals using Message Passing in Compressed Sensing.Advisor: Dr. Debashis Ghosh
INTERNSHIPS	<p>Qualcomm Inc., Bengaluru, India. May 2013 – July 2013 <i>Interim Engineering Intern</i></p> <ul style="list-style-type: none">Implemented Deblocking algorithm on RICA platform.Developed a Depth Based Scene Enhancement android app which uses Disparity Maps from Stereo Images.Winner of Intern Idea Quest. <p>Qualcomm Inc., Hyderabad, India. May 2012 – July 2012 <i>Interim Engineering Intern</i></p> <ul style="list-style-type: none">Developed a new system for automated audio quality testing of devices based on MSSIM.Prototyped on Matlab and then translated into Python using SciPy & NumPy.Team placed 3rd in Intern Idea Quest.
PROJECTS	<p>Image Denoising using Deep Neural Networks Guide: Dr.Manoj Tripathy, IIT Roorkee.</p> <ul style="list-style-type: none">Implemented MLPNN's using OpenCV to learn mapping from noisy images to noise-free images.Performance was compared with other denoising algorithms.Performance on different noise types like AWGN, JPEG quantization noise etc, was studied. <p>Survey of face recognition and face detection algorithms Guide: Dr.Vinod Pankajakshan, IIT Roorkee.</p> <ul style="list-style-type: none">Implemented face detection based on Neural Networks compared its performance with OpenCV's Viola and Jones classifier.Implemented eigen faces and fisher faces based face recognition. <p>Sudoku Grabber and solver</p> <ul style="list-style-type: none">Application recognises Sudoku and generates a solution.Solver is based on A* search algorithm.
HONOURS & ACHIEVEMENTS	<p>Recipient of MCM scholarship at IIT Roorkee during 2009-2013.</p> <p>Among top 0.3 % in 0.3 million that took IIT JEE in 2009.</p> <p>Currently rank second in the branch as per CGPA.</p>
SKILLS	<p>Languages: Python, C, C++, Matlab</p> <p>Markup: HTML, CSS, L^AT_EX</p> <p>Version Control: Git</p> <p>Libraries & Toolkits: Cython, OpenCV</p> <p>Operating Systems: Linux, Windows.</p>
REFERENCES	Available on request.