Siddhartha Chandra

https://siddharthachandra.github.io/

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Education

2014-2018	PhD in Machine Vision
	INRIA Galen & Centrale-Supélec Paris
2007-2013	Bachelor of Technology (Honours) $+$ M.S. by Research
	IIIT Hyderabad. CGPA: 9.3/10
2006-2007	AIEEE All India Rank 2532 (99.64 percentile)
	IIT All India Rank 3879 (99.14 percentile)
2004-2006	$\mathbf{ISC} \; \mathbf{XII}^{th} \; \mathbf{Board}$
	Overall Percentage: 94.0% St. Joseph's College, Allahabad
2004	$\mathbf{ICSE} \; \mathbf{X}^{th} \; \mathbf{Board}$
	Overall Percentage: 95.4% St. Joseph's College, Allahabad

Research Positions

2018-2019	Research Scientist II, Amazon Lab-126, USA
2018	Computer Vision Post-Doctoral Researcher, SNCF & Railenium, Paris
2017	Research Intern, Facebook Artificial Intelligence Research, Paris
2014 – 2018	PhD Student, INRIA Galen & Centrale-Supélec Paris
2009 – 2013	Research Assistant, Center for Visual Information Technology, IIIT Hyderabad
2010 – 2011	Research student visitor, Visual Geometry Group, University of Oxford

Selected Publications

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2018	Best Machine Learning Algorithms for Brain Tumor Segmentation. S. Bakas,
	Siddhartha Chandra et al. International Multimodal Brain Tumor Segmentation Challenge
2018	Context Aware 3D CNNs for Brain Tumor Segmentation. Siddhartha Chandra,
	Maria Vakalopoulou et al. MICCAI BrainLesion, Spain
2018	Deep Spatio-Temporal Random Fields for Efficient Video Segmentation. Sid-
	dhartha Chandra, Camille Couprie, Iasonas Kokkinos. CVPR, USA
2017	Structured Output Prediction and Learning for Deep Monocular 3D Human
	Pose Estimation. S. Kinauer, A. Guler, S. Chandra, I. Kokkinos. <i>EMMCVPR</i> , <i>Italy</i>
2017	Dense and Low-Rank Gaussian CRFs Using Deep Embeddings. Siddhartha Chan-
	dra, Nicholas Usunier, Iasonas Kokkinos. ICCV, Italy
2016	Fast, Exact and Multi-Scale Inference for Semantic Image Segmentation with
	Deep Gaussian CRFs. Siddhartha Chandra, Iasonas Kokkinos. ECCV, Netherlands
2016	Human Joint Angle Estimation and Gesture Recognition for Assistive Robotic
	Vision. Alp Guler, Siddhartha Chandra, Iasonas Kokkinos et.al. Oral, ECCV Workshop
2015	Accurate Human-Limb Segmentation in RGB-D images for Intelligent Mobility
	Assistance Robots. Siddhartha Chandra, S. Tsogkas, I. Kokkinos. Oral, ICCV Workshop
2015	Surface Based Object Detection in RGBD Images. Siddhartha Chandra, Grigoris
	Chrysos, Iasonas Kokkinos. Oral Presentation, BMVC, Wales
2013	Partial Least Squares Kernel for Computing Similarities between Video Se-
2010	quences. Siddhartha Chandra, C.V. Jawahar. Oral Presentation, ICPR, Japan
2013	Sparse Discriminative Fisher Vectors in Visual Classification. Vinay Garg, Sid-
2012	dhartha Chandra, C.V. Jawahar. ICVGIP, India
2012	Learning Non-Linear Supspaces using K-RBMs. Siddhartha Chandra, Shailesh Ku-
	mar, C.V. Jawahar. CVPR, USA
2012	Learning Hierarchical Bag of Words using Naive Bayes Clustering. Siddhartha
	Chandra, Shailesh Kumar, C.V. Jawahar. ACCV, Korea

Patents

2018 | Task Aware Synthetic Data Generation. Patent Filed

Workshops Organized

2018 CfP Graphs in Biomedical Image Analysis Workshop GRAIL, MICCAI, Spain.

Conference & Journal Reviewing History

2015-2019

 \star International Conference of Computer Vision \star IEEE Conference on Computer Vision & Pattern Recognition \star European Conference on Computer Vision \star Journal of Photogrammetry and Remote Sensing \star CARS \star Journal on Computer Vision & Image Understanding \star Neurocomputing \star International Conference on Advanced Video and Signal-based Surveillance \star Indian Conference on Vision, Graphics & Image Processing

Relevant Research Projects

Deep Learning	Visual Body Fat Estimation from Camera Pictures Advanced Algorithms for Estimating Visual Body Fat for Health & Wellness.
Deep Learning	Task Aware Synthetic Data Generation Learning to generate synthetic data for training Image Classification, Object Detection models, thereby alleviating the need for costly manual annotations.
Deep Learning	Multi-Scale Inference for Dense-Labeling Tasks with Deep Gaussian CRF Learning multi-scale pairwise interactions via Gaussian-CRFs for a variety of dense-labeling and regression tasks in an end-to-end deep learning architecture.
Human Pose ROS	Real-Time Human Joint Angle Estimation (part of successfully concluded EU Project) Research for MOBOT (EU Project): deep learning pipeline implemented for real-time performance on the Robotics Operating System.
Deep Learning	Facial Landmark Localization using Deep Structured Prediction End-to-end deep DPMs for face detection and landmark localization.
Deep Learning	LSTMs for semantic segmentation (Ongoing) Training conditional LSTMs for semantic segmentation.
Deep Learning	Human part segmentation in RGB-D Images Learning to parse humans in RGB-D images from diverse data using deep networks.
Pictorial Structures	Surface based Object Detection for RGB-D Images Emploing 3-D models for better initializing a mixture of Deformable Part Models.

Other Positions

- * Working as System Administrator for CVN, Centrale-Supélec Paris. Setting up GPU servers.
- * Worked as **System Administrator** for CVIT, IIIT Hyderabad. Familiar with Sun-Grid Engine, among other Linux Administration tools.
- * Worked as a **Teaching Assistant** for the following courses at IIIT Hyderabad through the $3^{rd} 5^{th}$ year: Computer Vision (1 semester), C Programming (2 semesters), Algorithms (1 semester), Information Technology (2 semesters).