Siddhartha Chandra

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Education

2014–2018	**PhD in Machine Vision** **INRIA Galen & Ecole Centrale-Supélec Paris**
2007–2013	**Bachelor of Technology (Honours) + Master of Science by Research** Major: Computer Science. Research Thesis: *Learning Representations for Computer Vision* **IIIT Hyderabad.** CGPA: 9.3/10

Research Positions

2021-today	**Senior Applied Scientist, Amazon Halo, USA**
2019-2021	**Applied Scientist, Amazon Halo, USA**
2018-2019	**Research Scientist, Amazon Halo, 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

2021	**Smartphone Camera Based Assessment of Adiposity: A Multi-Site Validation Study** M Majumdar, S Chandra et al. *Nature Portfolio Journal on Digital Medicine*
2020	**Box2Seg: Attention Weighted Loss and Discriminative Feature Learning for Weakly Supervised Segmentation** S Chandra*, V Kulharia* et al. *ECCV, ONLINE*
2020	**Deep Learning-Based Concurrent Brain Registration and Tumor Segmentation** T. Estienne, Siddhartha Chandra et al. *Journal: Frontiers in Computational Neuroscience*
2019	**Proof of Correctness and Time Complexity Analysis of a Maximum Distance Transform Algorithm** M. Sahasrabudhe & Siddhartha Chandra *ArXiV*
2019	**Learning to Generate Synthetic Data via Compositing** Siddhartha Chandra*, Shashank Tripathi* et al. *CVPR, USA*
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.** Siddhartha 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. *EMMCVPR, Italy*
2017	**Dense and Low-Rank Gaussian CRFs Using Deep Embeddings.** Siddhartha Chandra, 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 Sequences.** Siddhartha Chandra, C.V. Jawahar. *Oral Presentation, ICPR, Japan*
2012	**Learning Non-Linear Supspaces using K-RBMs.** Siddhartha Chandra, Shailesh Kumar, C.V. Jawahar. *CVPR, USA*

Patents

Filed	4 patents
2021	Generation of synthetic image data using three-dimensional models
2020	Generation of synthetic image data for computer vision models

Conference & Journal Reviewing History

2015-today	International Conference of Computer Vision IEEE Conference on Computer Vision & Pattern Recognition European Conference on Computer Vision Journal of Photogrammetry and Remote Sensing CARS Journal: Computer Vision & Image Understanding Journal: Neurocomputing International Conference on Advanced Video and Signal-based Surveillance Indian Conference on Vision, Graphics & Image Processing

Other Positions

- ⋆ **Program Committee**, 2018 CfP Graphs in Biomedical Image Analysis Workshop GRAIL, MICCAI, Spain
- ⋆ **System Administrator**, CVN, Centrale-Supélec Paris
- ⋆ **System Administrator**, CVIT, IIIT Hyderabad
- ⋆ **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*).

Skill Set

Programming	C, C++, Python, Bash, MATLAB
Libraries	`Caffe`, `Caffe-2`, `pyTorch`, `Eigen`, `CUDA`