

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 IIIT Hyderabad. CGPA: 9.3/10

Research Positions

2019-today	Applied Scientist, Amazon Lab-126, USA
2018-2019	Research Scientist, 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

2020	Deep Learning-Based Concurrent Brain Registration and Tumor Segmentation T. Estienne, Siddhartha Chandra et al. <i>Journal: Frontiers in Computational Neuroscience</i>
2019	Proof of Correctness and Time Complexity Analysis of a Maximum Distance Transform Algorithm M. Sahasrabudhe & Siddhartha Chandra <i>ArXiv</i>
2019	Learning to Generate Synthetic Data via Compositing Siddhartha Chandra et al. <i>CVPR, USA</i>
2018	Best Machine Learning Algorithms for Brain Tumor Segmentation. S. Bakas, Siddhartha Chandra et al. <i>International Multimodal Brain Tumor Segmentation Challenge</i>
2018	Context Aware 3D CNNs for Brain Tumor Segmentation. Siddhartha Chandra, Maria Vakalopoulou et al. <i>MICCAI BrainLesion, Spain</i>
2018	Deep Spatio-Temporal Random Fields for Efficient Video Segmentation. Siddhartha Chandra, Camille Couprie, Iasonas Kokkinos. <i>CVPR, USA</i>
2017	Structured Output Prediction and Learning for Deep Monocular 3D Human Pose Estimation. S. Kinauer, A. Guler, S. Chandra, I. Kokkinos. <i>EMMCVPR, Italy</i>
2017	Dense and Low-Rank Gaussian CRFs Using Deep Embeddings. Siddhartha Chandra, Nicholas Usunier, Iasonas Kokkinos. <i>ICCV, Italy</i>
2016	Fast, Exact and Multi-Scale Inference for Semantic Image Segmentation with Deep Gaussian CRFs. Siddhartha Chandra, Iasonas Kokkinos. <i>ECCV, Netherlands</i>
2016	Human Joint Angle Estimation and Gesture Recognition for Assistive Robotic Vision. Alp Guler, Siddhartha Chandra, Iasonas Kokkinos et.al. <i>Oral, ECCV Workshop</i>
2015	Accurate Human-Limb Segmentation in RGB-D images for Intelligent Mobility Assistance Robots. Siddhartha Chandra, S. Tsogkas, I. Kokkinos. <i>Oral, ICCV Workshop</i>
2015	Surface Based Object Detection in RGBD Images. Siddhartha Chandra, Grigoris Chrysos, Iasonas Kokkinos. <i>Oral Presentation, BMVC, Wales</i>
2013	Partial Least Squares Kernel for Computing Similarities between Video Sequences. Siddhartha Chandra, C.V. Jawahar. <i>Oral Presentation, ICPR, Japan</i>
2012	Learning Non-Linear Supspaces using K-RBMs. Siddhartha Chandra, Shailesh Kumar, C.V. Jawahar. <i>CVPR, USA</i>
2012	Learning Hierarchical Bag of Words using Naive Bayes Clustering. Siddhartha Chandra, Shailesh Kumar, C.V. Jawahar. <i>ACCV, Korea</i>

Patents

2019	Learning Discriminative Features Through Attention For Weakly Supervised Segmentation
2019	Task Aware Synthetic Data Generation by inserting 3D Avatars in Real World Images & Videos
2018	Synthetic Data Generation to Fill Gaps in Data Distribution.

Conference & Journal Reviewing History

2015-2019	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
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Other Positions

- ★ **System Administrator**, CVN, Centrale-Supélec Paris
 - ★ **System Administrator**, CVIT, IIIT Hyderabad
 - ★ **Teaching Assistant** for the following courses at IIIT Hyderabad through the 3rd – 5th year: **Computer Vision** (1 *semester*), **C Programming** (2 *semesters*), **Algorithms** (1 *semester*), **Information Technology** (2 *semesters*).
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