SUNDARA TEJASWI DIGUMARTI

Doctoral Student

Autonomous Systems Lab
ETH Zürich

Contact

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Website

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Languages

English Telugu Hindi	Fluent
German	Conversational
French Sanskrit	Beginner

Hobbies

Painting	Sculpting
Hiking	Cooking
Table Tennis	Video Games

Education

PhD. in Robotics (2019 expected) — ETH Zürich, Switzerland
3D Reconstruction of Natural Structures — Disney Research

MSc. in Robotics, Systems and Control (2012 -2014) — ETH Zürich, Switzerland
Re-*acquisition of People using Clothing Characterization*

BTech. in Electrical Engineering (2008 - 2012) — IIT Jodhpur, India
Development of a Smart Wheelchair

Work Experience

Research Intern - Winter 2013 — TCS Innovation Labs, India
Gesture based control for a service robot

Research Intern - Summer 2011 — CNBI, EPFL, Switzerland
Benchmarked classification techniques on the Opportunity - Human Activity dataset

Skills

Programming	C/C++, Python, ROS, Matlab, CUDA, AVR, Arduino
Deep Learning	Tensorflow, PyTorch
Creative Design	Blender, Illustrator, Photoshop
CAD	OnShape
Circuit Design	KiCAD
Workshop Skills	3D Printing, Laser Cutting, Soldering, Welding, Casting, Turning

Publications

1. S. T. Digumarti, J. Nieto, C. Cadena, R. Siegwart, P. Beardsley, *Automatic segmentation of Tree Structure from Point Cloud Data*. IEEE Robotics and Automation Letters (RAL), 2018
2. S. T. Digumarti, G. Chaurasia, A. Taneja, R. Siegwart, A. Thomas, P. Beardsley, *Underwater 3D capture using a low-cost commercial depth camera*. IEEE Winter Conference on Applications of Computer Vision (WACV), 2016
3. M. Kriegleder, S. T. Digumarti, R. Oung, R. d'Andrea, *Rendezvous with bearing-only information and limited sensing range*. IEEE Conference on Robotics and Automation (ICRA), 2015
4. R. Chavarriaga, H. Sagha, A. Calatroni, S. T. Digumarti, G. Tröster, J. D. R. Millán, D. Roggen, *The Opportunity challenge: A benchmark database for on-body sensor-based activity recognition*. Pattern Recognition Letters, 34(15), 2013
5. A. Trivedi, A. Singh, S. T. Digumarti, D. Fulwani, S. Kumar, *Design and Implementation of a Smart Wheelchair*. Advances in Robotics, International Conference of Robotics Society of India, 2013
6. H. Sagha, S. T. Digumarti, J. D. R. Millán, A. Calatroni, D. Roggen, G. Tröster, D. Bannach, P. Lukowicz, A. Ferscha, R. Chavarriaga, *Workshop on robust machine learning techniques for human activity recognition: Activity recognition challenge*. IEEE International Conference on Systems, Man, and Cybernetics (SMC), 2011
7. H. Sagha, S. T. Digumarti, J. D. R. Millán, R. Chavarriaga, A. Calatroni, D. Roggen, G. Tröster, *Benchmarking classification techniques using the Opportunity human activity dataset*. IEEE International Conference on Systems, Man, and Cybernetics, 2011

Awards and Achievements

1. Best Paper Award at Advances in Robotics, Pune, India, 2013
2. Cleared the 1st round of Bristol's Basecamp Enterprise competition, 2018-19
3. Won gold at national level Shotokan Karate competition, 2005