

SUNDARA TEJASWI DIGUMARTI

Postdoctoral Research Associate Sydney Institute for Robotics and Intelligent Systems The University of Sydney, Australia

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Contact: Room 111, Rose Street Building, The University of Sydney,

New South Wales, 2006, Australia.

Education

PhD. in Robotics (2019) ETH Zürich, Switzerland

Semantic Segmentation and Mapping in Natural Environments Disney Research

MSc. in Robotics, Systems and Control (2012 -2014) ETH Zürich, Switzerland

Re-acquisition of People using Clothing Characterization Disney Research

B.Tech in Electrical Engineering (2008 - 2012)

Development of a Smart Wheelchair

IIT Jodhpur, India

Work Experience

Research Intern - Winter 2013

Developed gesture-based control for a service robot

TCS Innovation Labs, India

Research Intern - Summer 2011

Benchmarked classification techniques on the

Opportunity - Human Activity dataset

CNBI, EPFL, Switzerland

Skills

Programming C/C++, Python, ROS, Matlab, CUDA, AVR, Arduino

Deep Learning Tensorflow, PyTorch

Creative Design Blender, Illustrator, Photoshop, Krita

CAD OnShape, Autodesk Fusion 360

Circuit Design KiCAD

Workshop Skills 3D Printing, Laser Cutting, Soldering, Welding, Casting, Turning

Publications

1. S. T. Digumarti, L. M. Schmid, G. M. Rizzi, J. Nieto, R. Siegwart, P. Beardsley, C. Cadena *An approach for semantic segmentation of tree-like vegetation.*

IEEE International Conference on Robotics and Automation (ICRA), 2019

2. 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

3. 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

4. M. Kriegleder, S. T. Digumarti, R. Oung, R. d'Andrea,

Rendezvous with bearing-only information and limited sensing range.

IEEE International Conference on Robotics and Automation (ICRA), 2015

5. 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

6. 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

7. 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

8. 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. Reached the final round of the IROS Open Cloud Robotics Table Organization Challenge, 2020
- 2. Best Paper Award at Advances in Robotics, Pune, India, 2013
- 3. Cleared the 1st round of Bristol's Basecamp Enterprise competition, 2018-19
- 4. Won gold at national level Shotokan Karate competition, 2005

Languages

English, Telugu, Hindi Fluent

German Conversational

French, Sanskrit Beginner

Hobbies

Painting	Sculpting	Table-tennis	Hiking	Cooking	Video games
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