SURYANARAYANA MURTHY MUDDALA

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RESEARCH AND TECH INTERESTS

Computer Vision, Machine Learning, 3D Video, Multi view processing, Pattern Recognition, and Signal Processing

WORK EXPERIENCE

Cipherstone Technologies , Goteborg, Sweden
Position: Consultant in Computer Vision and Machine Learning (December 2017 -)

- Investigating and developing a weather detection model to compensate luminance estimation.
- Investigating and developing a view-compensation model using single view geometry.

Smart Eye, Goteborg, Sweden
Position: Developer in Deep Learning and Computer Vision (November 2018 -)

Zenuity (Client Veoneer), Goteborg, Sweden
Position: Developer in Computer Vision (February 2018 - July 2018)

- Developing a model and testing Lane marking interpolation method.
- Team member in developing and testing a free space detection method.

Facebook **(PRO Unlimited Global Indian Private Limited**, Bangalore, India)
Position: Tech. Coordinator in Computer Vision and Machine Learning (August 2016 - December 2017)

- Investigating various data imagery and extract core features using different ML models.
- Developing a geo-coding solution for un-mapped areas using Computer Vision and Machine Learning tools.

Mid Sweden University, Sundsvall, Sweden
Position: Graduate Researcher (March 2011 - August 2015)

- Investigating and developing new rendering algorithms for 3DTV and free view point TV.
- Investigating and developing new texture synthesis (inpainting) methods for disocclusion handling.

Blekinge Institute of Technology, Karlskrona, Sweden
Position: Research Student (August 2010 - Jan 2011)

- Investigating the possibilities for 3D video and image in handheld devices.
- Multiple camera calibration and depth extraction.

Blekinge Institute of Technology, Karlskrona, Sweden
Position: Research Student (September 2009 - March 2010)

- Investigating different types of active noise control systems to reduce noise in radial fan.
- Design and developing new active noise control methods.

Blekinge Institute of Technology, Karlskrona, Sweden
Position: Teaching Assistant (May 2009 - June 2009)

- Demos on signal analyzers and IDEAS software.
- Assessing lab reports.

EDUCATION

PhD **Mid Sweden University**, Computer and System Sciences,
(March 2011-June 2015)
Dissertation: "Free View rendering for 3D Video – Edge-Aided Rendering and Depth-Based Image Inpainting"
Advisors: Prof. Mårten Sjöström & Dr. Roger Olsson.
Committee: Prof. Ulf Assarsson, Asso Prof. Jan Thim, Dr. Federica Battisti and Prof. Christine Guillemot.

MS **Blekinge Institute of Technology**, Electrical Engineering,
(March 2007-June 2009)
Thesis: "Active Control of Radial fan"
Advisors: Dr. Sven Johansson & Dr. Martin Larsson

BTech **Jawaharlal Nehru Technological University**
Electronics and Communication Engineering,
(August 2002 – May 2006)

COMPUTER SKILLS

Programming: C, C++, MATLAB, Python
Libraries: Open Source Computer Vision (Open CV), Chainer, Caffe2, knowledge in Tensorflow and keras
Text Processing: Latex, Microsoft Office

PROFESSIONAL TRAINING

Attended Summer School

- Remote Engineering summer school on computer vision in Blekinge Institute of Technology, Sweden, 2010.
- European Cooperation in Science and Technology (COST) Action: 3D media and computational architecture in Tampere University of Technology, Finland, 2012.
- Plenoptic capture, processing and reconstruction in Mid Sweden

University, Sundsvall, Sweden, 2013.
- 3D content creation, perception and interaction in Budapest, Hungary, 2014.

AWARDS

Best Paper Award, 2017
Robocodes: Towards Generative Street Addresses from Satellite Imagery.

Best Student Paper Award, 2013
Developing a new method for handling disocclusions using Inpainting.

Best Student Project Award, 2009
Enhancing of images, which are affected by various noises.

PUBLICATIONS

All the publications are listed in Google scholar
https://scholar.google.com.sg/citations?user=dyMM7f8AAAAJ&hl

LANGUAGES

Telugu: Native Language
English: Fluent
Swedish: Intermediate
Hindi: Basic

OTHER

https://suryanm-muddala.github.io/

Reviewer to the Journal of Visual Communication and Image Representation