

Sruthi Moorthy

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Born: April 26, 1990

Nationality: Indian

Research Interests

Artificial Intelligence, Machine Learning and Computer Vision

Education

Research position @ Gembloux Agro-Bio Tech, ULg, Belgium

Nov 2013 - Now

- The aim of this study is to develop an algorithm that can accurately detect the lines representing the crop rows in a field for an agricultural vehicle to navigate autonomously with adequate tolerance to varying growth stages of the plants, poor and variable illumination conditions, missing crops and presence of weeds.
- **Supervisor:** Prof. Benoit Mercatoris, **Co-supervisor:** Prof. Bernard Boigelot

Master of Artificial Intelligence @ KULeuven, Belgium

(Score: 79.08 %, Magna cum laude)

Sep 2012 – Sep 2013

- **Major subjects:** Machine Learning, Computer Vision, Data Mining, Artificial Neural Networks, Support Vector Machines, Uncertainty in Artificial Intelligence
- **Master thesis title:** “Towards day-to-day basketball predictions using machine learning”. Feature engineering and data mining algorithms to better predict the outcome of a NCAA match.

Bachelor of Computer Science Engineering @ CEG, Chennai, India

(Score: 8.64 / 10, Distinction)

Aug 2007 – May 2011

- **Major subjects:** Algorithms and Data Structures, Object Oriented Programming Systems, Artificial Intelligence, Database Management Systems
- **Bachelor thesis title:** “Enhancing storage features on cloud”. This thesis was an effort to make feasible the idea of using the storage options on cloud down to a level of requesting for the desired amount of storage space, which could be as small as a fraction of the smallest storage space currently offered.

Publications

S. Moorthy, B. Boigelot and B. C. N. Mercatoris. Effective segmentation of green vegetation for resource-constrained real-time applications. In *ECPA*, Israel, **2015** (under review)

Zifan Shi, **Sruthi Moorthy** and Albrecht Zimmermann. Predicting NCAA match outcomes using ML techniques – some results and lessons learned. In *MLSA workshop at ECML/PKDD*, Prague, **2013**

Parvatha Narayanan, **Sruthi Moorthy** and Rama Devi. Enhancing storage features on cloud. In *4th IEEE International Conference on Computer Science and Information Technology*, Chengdu, China, **2011**

Computer Vision in Medical Domain

Project title: “Automatic incisor segmentation using active shape models”

@ KULeuven, Belgium

Sep 2014

The goal of the project was to present an algorithm that is capable of segmenting 8 incisors automatically from panoramic dental radiographs using a model-based approach.

Work Experience

Research and Development Engineer

@ NMSWorks Software Pvt. Ltd., Chennai, India

Jun 2011 – Sep 2012

Independently developed a Java Client Framework for an ADR (Activation, Discovery and Reconciliation) system to support the network management of Airtel. Also, built map client in Java to serve as a tool to discover, visualize and manipulate the network components at run-time.

Skills

Machine Learning and Computer Vision

- Experience with standard machine learning and computer vision techniques
- Hands-on experience with Weka, scikit-learn, pybrain and OpenCV libraries

Software Development

- Deep knowledge of Java and Python
- Highly familiar with C++ and Matlab

Language

- Tamil (mother tongue), English (fluent, TOEFL IBT: 104/120)

Professional Training

Statistical Machine Learning

Feb 2014

UCL, Louvain-la-Neuve, Belgium

International Computer Vision Summer School (ICVSS)

Jul 2014

Sicily, Italy

The Second Orebro Winter School on “AI and Robotics”

Dec 2014

Orebro, Sweden