Arulkumar S, M.S

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Education

Jul 2015 – Jul 2017*	M.S., (Computer Science and Engineering - CGPA: 9.16*) in Machine Learning and Computer Vision Indian Institute of Technology Madras
Aug 2006 – Apr 2010	B.E., (Computer Science and Engineering - CGPA: 9.02) Coimbatore Institute of Technology, Anna university
Jul 2005 – Apr 2006	12th Standard School Education (Percentage: 92.42%) Gandhiji Government Higher Secondary School, Sokkampalayam
Jul 2003 – Apr 2004	10th Standard School Education (Percentage: 95.6%) Gandhiji Government Higher Secondary School, Sokkampalayam

Research Publications

Conference Proceedings

1. Arulkumar, S., Moitreya, C., & Anurag, M. (2016). Deep Neural Networks with Inexact Matching for Person Re-Identification. In Proceedings of the Neural Information Processing Systems (NIPS) - 2016. Barcelona, Spain. Code : `https://github.com/InnovArul/personreid_normxcorr`.
2. Arulkumar, S., Vismay, P., Ashish, M., Prashanth, B., & Anurag, M. (2016). Bi-modal First Impressions Recognition using Temporally Ordered Deep Audio and Stochastic Visual Features. In Proceedings of the European Conference on Computer Vision Workshop (ECCVW) - 2016 on Apparent Personality Analysis. Amsterdam, The Netherlands. Code: `https://github.com/InnovArul/first-impressions`.

Research Area of Interest

1. Machine learning in Computer Vision, Deep learning
    - Person Detection, Tracking and Identification
    - Action Recognition
2. Autonomous Driving

Relevant courses

Pattern Recognition
Artificial Neural Networks
Advanced Signal Processing (Machine Learning for Computer Vision)
Kernel Methods
Linear Algebra and Random Processes
Advanced Data Structures and Algorithms

Employment History

May 2010 – Jul 2015 — Senior Software Engineer, Automotive Domain (Passive Safety - Airbags)
Robert Bosch Engineering and Business Solutions Ltd

- Development of Test framework for Airbags ECUs
- Application drivers using CAN Flexray protocols for ECU Diagnosis
- Vehicle crash emulation, evaluation and verification according to Airbags ECU requirements

Skills

Languages	Reading, writing and speaking competencies for English, Tamil.
Coding	Lua, VC++.Net, GPU programming (Cuda C++), Java, Python, R, C#.NET
Frameworks	Torch, Caffe
Databases	Mysql
Web Dev	Html, CSS, JavaScript

Miscellaneous Experience

Awards and Achievements

Sep 2016	Received Travel Grant from Google for NIPS-2016 paper
Aug 2016	Ranked 2 nd in the ICPR-2016(team: evolgen): ChaLearn Looking at People : First Impressions and Personality Traits recognition challenge (second round)
Jul 2016	Ranked 2nd in the ECCV-2016(team: evolgen): ChaLearn Looking at People : First Impressions and Personality Traits recognition challenge (first round)
Apr 2006	Secured school First in Higher secondary school examination
Apr 2004	Secured school Third in Secondary school examination

Certifications

Jul 2016	Deep learning Summer school: Attended summer school for Deep learning conducted at IIIT Hyderabad, India.

References

Prof Dr.Anurag Mittal
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