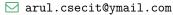
# Arulkumar S, M.S

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- https://innovarul.github.io/
- in http://www.linkedin.com/in/arulcse/
- http://www.github.com/InnovArul



## **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, Sokkampalayan
Jul 2003 – Apr 2004	■ 10th Standard School Education (Percentage: 95.6%) Gandhiji Government Higher Secondary School, Sokkampalayan

## **Research Publications**

### **Conference Proceedings**

- 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.
- 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 Associate Professor Department of CSE Indian Institute of Technology Madras BSB 347, IIT Madras, Chennai, India - 600036.

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Prof Dr.Chandra Sekhar Professor Department of CSE Indian Institute of Technology Madras BSB 305, IIT Madras, Chennai, India - 600036.

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