Amir Jamali

Amirkabir University of Technology - Tehran Polytechnic

Contact information

Phone: +989123970029
email1: a.jamali@aut.ac.ir
email2: jamali.amir@gmail.com
URL: https://amir-jamali.github.io/
Linkedin: https://www.linkedin.com/in/amir-jamali/

Born: January 25, 1983—Tehran, Iran
Nationality: Iranian

Current position

Researcher & Developer in computer vision, machine learning and data science at Faraadid Company
URL: http://www.faraadid.com/VisitorPages/default.aspx?itemid=3
Linkedin: https://www.linkedin.com/company/faraadid?trk=company_logo

---

Areas of specialization & Interests

- **Image Processing**
- **Computer Vision**
- **Deep Learning**
- **Camera Calibration Issues**
- **3D Reconstruction Using Single or Multiple Cameras**
- **Machine Learning**
- **Data Science**
- **Network Cyber security(ipfix data)**

- **Electronic Circuits Design(Schematic and PCB)**

Education

2001-2006 B.Sc in Electronic, K. N. toosi University of Technology
Thesis : Three Phase Three level Matrix and Diode Clamp DC/AC inverter

2012-2014 M.Sc in Electronic-Digital-Systems, Amirkabir University of Technology - Tehran Polytechnic
Thesis : Sparse and Dense 3D face Modelling based on 2.5D AAM Approach from a single image
GPA : 17.07/20

Grants, honors & awards

2012 Nationwide Universities Entrance Exam for Graduate Programs in electronic Engineering –Artificial Intelligence (M.Sc. Konkoor)
Ranked 56th out of approximately 30000 contestants

Publications & talks

Journal articles

in preparation "Sparse and Dense 3D face modelling from single view face image"

Teaching

2013-2014 Electronic lab instructor at Amirkabir University of Technology Department of Computer Engineering and Information Technology

M.Sc Courses

Course	Grade
Digital Signal Processing	A
Image Processing	B
Data Communication Networks	A
Neural Networks	A
Machine Vision	A
Sele. Top. in Electronic(3D Computer Vision)	A
Statistical Pattern Recognition	B
Computational Intelligence & Its Applications in Mechatronics	A

Work Experience

2009-2012 Linear and Switching Power Supplies Design(PCB & Scematics) for 1KW Radio FM Transmitters at K. N. toosi University of Technology

2014-2017 Research & Develop following application in C++ and python at Faraadid Co:

- **Face Recognition using Deep Convolutional Neural Networks**
- **People Counting from bird's eye View Camera**
- **Fire and Smoke Detection**
- **Intrusion Detection in forbidden Areas**
- **Camera Tampering Detection**
- **Abandoned Object Detection**
- **Network Anomaly Detection from Online ipfix Data**
- **Network Anomaly Detection(Network Cyber security)**(by applying machine learning techniques to online ipfix Data)
- **Car License Plate Detection, Recognition using Deep Convolutional Neural Networks**(including online report of breaking law cars' position from serial port GPS receiver to remote database)

Academic Membership

Student member of 'Institute of Electrical and Electronics Engineers IEEE' (Iran Section) Member No: 92904433

Language Skills

- **Persian** : Native
- **English** : Fluent
- **Arabic** : Familiar

Technical Skills

- **Programming Languages**
  - C, C++, Python,Matlab, Matlab(MEX), BASH, Qt, MySQL, Orcad, Altium Designer
- **Machine Learning and Image Processing Tools and Libraries**
  - TensorFlow, MatConvNets and some experience with Caffe and Torch
  - OpenCV
  - Matlab toolboxes
  - LIBSVM