

Alireza Davoudi

Iran • Tehran • Niavaran • Jamaran • Shahid Manaee Alley • Keshavarz Dorm

Year of Birth: 1991

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Research Interests

- Machine Learning and Manifold Learning
- Image Processing, Video Processing and Machine Vision
- Brain-Computer Interfaces

Education

2014-Present M.S. in Artificial Intelligence

Department of Computer Eng. and Information Technology, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

Thesis: "Riemannian Manifold And Its Application In Brain-Computer Interfaces" under supervision of Dr. Saeed Shiry Ghidary, Assistant Professor of Artificial Intelligence, Amirkabir University of Technology;

Courses: Artificial Neural Networks, Machine Learning, Digital Image Processing, Machine Vision, Big Data Analytics, Statistical Pattern Recognition, Evolutionary Computing, Speech Processing & Recognition

2010-2014 B.S. in Computer Engineering (Major in Software Engineering)

Computer Engineering Department, Persian Gulf University, Bushehr, Iran

Thesis: "Review Of Blind File Format Detection Approaches" under supervision of Dr. Keshavarz, Assistant Professor of Electrical Engineering, Persian Gulf University;

Courses: Fundamental of Image Processing,

Awards and Honors

- 11th Place in 19th National Scientific Olympiad For University Students, Final Stage (2014)
- 1st Place in 19th National Scientific Olympiad For University Students, First Stage, Area 6 (Bushehr, Fars, Yazd) (2014)
- 2nd Place in Second Bushehr Collegiate Programming Contest (2014)
- 1st Place in Second Bushehr Collegiate Programming Contest, Artificial Intelligence Contest (2014)
- 40th Place in Iranian nationwide university entrance exam for Artificial Intelligence (2014)
- 1st Place in First Bushehr Collegiate Programming Contest (2013)
- 16th Place in 18th National Scientific Olympiad For University Students, Final Stage (2013)

Works Done

- Implementing a Software for File Type Detection Based On Its Header
- Implementing a Software for Content-based File Type Detection
- Converting the "NIST Statistical Test Suit" from C Version to an OO & Multi-Threaded C++ Version
- Implementing an Image Processing Software for Recognizing Defected Parts in a Production Line

Works at Hand

- Book: **"Image Processing and Computer Visoion Using OpenCV 3.0 (in Persian)"** (In preparation – Expected: 1395's Summer)

Professional Skills

- Programming Languages
 - Java
 - C/C++
 - MATLAB
- Libraries
 - OpenCV
 - Qt
- Operating Systems
 - Windows
 - Linux
- Microprocessor
 - AVR

Foreign Language Skills

- American-English
 - **Fluent:** Reading
 - **Intermediate:** Speaking, Writing