

Personal information

Surname/First name	Javad Abbasi-Aghamaleki
Gender	Male
Date of Birth	January 1, 1985
Marital Status	Married
Nationality	Iranian
Address	Electrical Engineering Faculty, Engineering Department, Damghan University, Damghan, Iran
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Research Interests

Signal Processing	Image & Video Processing, Image & Video Forgery Detection, Data Fusion
Hybrid Systems	Design & Implementation of Hybrid Power Supply Systems
Hardware	Embedded Systems, Design & Implementation of Hardware in Controlling Systems

Work Experiences

Name of employer	Damghan University
Occupation	Researcher and Lecturer
Main Activities	Researcher Lecturer Supervisor of the MSc and BSc Thesis
Type of Business or Sector	Education
Dates	Working Since September 2015
Name of employer	Fater Industrial Group
Occupation	Researcher & Electrical System Developer
Main Activities	Researcher System Developer Project Manager Head of Electrical Group
Type of Business or Sector	R&D
Dates	Working Since December 2015
Name of employer	Rouzbahan University
Occupation	Lecturer
Main Activities	Lecturer Supervisor of the MSc Thesis
Type of Business or Sector	Education
Dates	September 2012-June 2016
Name of employer	Pars Novin Co.
Occupation	Researcher & Electrical System Developer
Main Activities	Researcher Project Manager Head of Electrical Group
Type of Business or Sector	Applied studies
Dates	December 2013-November 2015
Name of employer	Shomal Industrial Research Co.

Occupation	Researcher & Electrical System Developer
Main Activities	Researcher Project Implementer Project Manager Head of Electrical Group
Type of Business or Sector	R&D
Dates	February 2009-September 2013

Projects	
	Design and implementation of battery-fuel cell hybrid light electrical boat
	Design and implementation of battery-fuel cell hybrid light UAVs
	Design and implementation of high-power switching battery-fuel cell hybrid power supply
	Design and research on regenerative fuel cells (RFCs) for UAVs
	Design and implementation of control system for high power fuel cell
	Detecting targets and fusing images in terahertz, visible and IR bands
	Design and implementation a low power audio recorder using ADPCM compression algorithm
	Design and implementation of a local navigation system using image processing
	Research, design and implementation of smart systems
	AND more than 20 other Ended Projects

Education Background	
Degree	Doctorate in Electrical Engineering
Department/Organization	Department of Engineering, Shahed University, Tehran, Iran
Dissertation Title	Video Forensics and Tampering Detection Using Intrinsic and Statistical Characteristics of Video Formation Process
Supervisor	Alireza Behrad (Associated professor)
Dates	September 2011-December 2016
GPA	18.66 (out of 20)
Degree	Master in Electrical Engineering
Department/Organization	Department of Electrical & Robotic Engineering, Shahrood University of Technology, Shahrood, Iran
Dissertation Title	Aerial Image Processing Using Scale Invariant Features
Supervisor	Alireza Ahmadyfard (Associated professor)
Dates	September 2008-February 2011
GPA	18.19 (out of 20)
Degree	Bachelor of Electrical Engineering
Department/Organization	Department of Electrical Engineering, K.N. Toosi University of Technology
Dissertation Title	ADPCM Algorithm Implementation on FPGA
Supervisor	Yousef Darmani (Associated professor)
Dates	September 2004-August 2008
GPA	16.85 (out of 20)
Degree	Diploma in Mathematics and Physics
Department/Organization	National Organization for Development of the Exceptional Talents (NODET), Babol, Mazandaran, Iran
Dates	September 2000-August 2004
GPA	18.60 (out of 20)

Awards and Honors

1999	Accepted in National Mathematics Olympics
2000	Ranked among Top 0.005% in Iran's National University Entrance Exam (ranked 599 th out of 500k participants)
2008	Ranked 5 th (out of 45) among bachelor graduates of the Electronic major K.N.Toosi university of technology, Tehran, Iran
2010	Ranked 1 st (out of 10) among master graduates of the Electronic major Shahrood University of technology, Shahrood, Iran
2015	Ranked 1 st (out of 4) among Doctorate graduates of the Electronic major Shahed University, Tehran, Iran
2012	Best Researcher in Shomal Industrial Research Co.
2013	Best Researcher in Shomal Industrial Research Co.

Publications

Journal papers

2016	J. A. Aghamaleki and A. behrad, "Inter-frame Video Forgery Detection and Localization Using Intrinsic Effects of Double Compression on Quantization Errors of Video Coding", Signal Processing: Image Communication (2016), pp. 289-302. DOI information: 10.1016/j.image.2016.07.001. (ISI Q2)
2017	J. A. Aghamaleki and A. behrad, "Malicious Inter-Frame Video Tampering Detection in MPEG Videos Using Time and Spatial Domain Analysis of Quantization Effects", Multimedia Tools and Applications (2017) DOI information: 10.1007/s11042-016-4004-z. (ISI Q1)
2018	J. A. Aghamaleki and S. Moayed Baharlou, "Transfer learning approach for classification and noise reduction on noisy web data." Expert Systems with Applications 105 (2018): 221-232. (ISI Q1)
2018	J. A. Aghamaleki and A. Behrad, "Detecting double compressed MPEG videos with the same quantization matrix and synchronized group of pictures structure." Journal of Electronic Imaging 27.1 (2018): 013031. (ISI Q3)
2019	J. A. Aghamaleki and V. Ashkani "Multi-Stream CNN for Facial Expression Recognition in Limited Training Data", Multimedia Tools and Applications, DOI information: 10.1007/s11042-019-7530-7 (ISI Q1)
2019	J. A. Aghamaleki and A. Miresmaili "Shadow Detection in Arial Images Using Optimized Combined Ratio Map", Summited to IET image processing (Under review)
2018	J. A. Aghamaleki and A. Miresmaili "Shadow Detection in Arial Images Using Improved Ratio Map", Tabriz Journal of Electrical Engineering (TJEE), (2018).
2019	J. A. Aghamaleki and S. M. Musavi "High-speed Noise Reduction in SAR Images Using Sparse Representation", Tabriz Journal of Electrical Engineering (TJEE), Minor Revised version is under review
2010	J. A. Aghamaleki , H. Hasanpoor and A. ahmadyfard, "Design tourist guiding software using image processing and mobile phone camera", Journal of Iranian Electrical Industry. (2010)

Conference papers

2014	S. T. Chaleshtari and J. A. Aghamaleki , "Video Frame Forgery Detection Using Decision Tree Based on Feature Selection by Sparse Coding"(In Persian), National Conference of Technology, Energy and Data on Electrical & Computer Engineering, Kermanshah, Iran, June 2014.
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2009	J. A. Aghamaleki and A. Ahmadifard, "Highly Quality Images from a Model" (In Persian), The 15th Iranian Computer Conference, Tehran, March 2009.
2009	J. A. Aghamaleki and A. Ahmadifard, "Positioning and Guiding of air equipment using image processing" (In Persian), The 15th Iranian Computer Conference, Tehran, March 2009.
2009	J. A. Aghamaleki and A. Ahmadifard, "Aerial Image Processing Using Scale Invariant Features" (In Persian), The 15th Iranian Computer Conference, Tehran, March 2009.
2008	R. Ftahi, J. A. Aghamaleki , N. ramezani, B. Hosseini and E. Alizadeh, "The New Method of Hybridization of Fuel Cell-Batteries in Marine Electrical Motors Supply"(In Persian), Iran Radon Floating Conference, Chalous, December 2008.
2010	R. Fathi, J. A. Aghamaleki , A. Bolbolamiri and H.Fieze, "Application of Lithium Polymer Battery in UUV Propulsion System"(In Farsi), 12th Iranian Marine Industries Conference, November 24, 2010.
2014	J. A. Aghamaleki , P. Khodaparast, M. Alina, "Finding the Possibility of Manipulating the video by Examining the Compression Properties" (In Persian), National Conference of Technology, Energy and Data on Electrical & Computer Engineering, Kermanshah, Iran, June 2014.
2014	M. Toorandaz, J. A. Aghamaleki , S. Tavakoli, "Detection of Frames Removed in Video Using Decision Tree and Based on Feature Selection by Sparse Coding" (In Persian), Second National Computer Engineering and Information Technology Management Conference, Tehran, Shahid Beheshti University, Tehran, Iran, June 2014.
2014	M. Tabari, J. A. Aghamaleki , A. Ghorbani, " Farsi Text Detection in images based on SIFT descriptor and fuzzy dictionary"(In Persian), Third National Conference and First International Conference on Applied Research in Computer and Information Technology, Tehran, November 2014.
2014	S. Ghadikolaie, J. A. Aghamaleki , A. Ghorbani, "Brain MRI image classifying for diagnosis of brain tumor by combining c-mean fuzzy and watershed algorithms"(In Persian), Third National Conference and First International Conference on Applied Research in Computer and Information Technology , Tehran, November 2014.
2018	J. A. Aghamaleki and M. Musavi, "Improving the Synthetic Aperture Radar Image Quality using Sparse Coding"(In Persian), The 10th Iranian Conference on Machine Vision and Image Processing, Esfahan, 2018.

Teaching Experiences

2015-2019	Damgham University <ul style="list-style-type: none"> • Electronic I&III • Signals and Systems • CMOS I • Electrical Fundamentals • Electronic LAB • Electrical Circuits LAB
2012-2016	Rouzbahan University (MSe courses) <ul style="list-style-type: none"> • Image processing • CMOS I • Machin Vision

	<ul style="list-style-type: none"> • DSP I
2009-2011	Allame-Amini University <ul style="list-style-type: none"> • Electronic • Logic Circuits • Data Structures • C Programming
2009-2011	Imam-Sadegh Technical University <ul style="list-style-type: none"> • Microcontrollers • Electronics • Communication Systems
2009-2010	Slamic Azad University (IAU) Ghaemshahr Branch <ul style="list-style-type: none"> • Electronics • Electronic Lab

Supervisor of the Thesis

MSe Thesis:

- Concealed Weapon Detection Based on Multi-Spectral Imaging System
- Image Tampering Detection in JPEG Format Using Intrinsic Compression Effects
- Nonlinear Circuits for UWB Applications
- Farsi Text Recognition in Images Based on SIFT Descriptor and Fuzzy Dictionary
- Inter-Frame Tampering Detection in MPEG Video
- Segmentation of MRI Brain Image to Detect Brain Tumor using Fuzzy C-Mean Algorithm and Watershed Algorithm
- MPEG Video Double Compression Detection using Intrinsic Effects of Compression
- Simulation and Design of Orthogonal RC Oscillators with Low Power Consumption for use in Low-Power Telecommunication Systems
- Image Steganography by Combined Classifiers
- Aerial Image Mosaicking using Key Feature Points

PhD Dissertation

- Multiband Image Fusion using Deep Learning

Reviewing Activities

Multimedia Tools and Applications
 Neurocomputing
 Tabriz Journal of Electrical Engineering
 Journal of AI and Data Mining
 Journal of Electronic Imaging
 Iranian Journal of Marine Technology

Attended Training and Workshop Certificates

2012	Programmable Logic Controllers (PLC), Preliminary Qeshm Voltage Co. (Siemens Representative) (40 hrs)
2012	Programmable Logic Controllers (PLC), Advanced Qeshm Voltage Co. (Siemens Representative) (40 hrs)
2011	ARM Microcontrollers

	Nira System Co. (300 hrs)
2007	Spartan Series FPGA Nasir Co. (200 hrs)
2018	Automobiles Electrical and Controlling Systems Iran khodro Co. (60 hrs)

Software Skills

Programming Language	MATLAB, C, C++, VC, Python, Pascal, Basic, VHDL
Engineering Software	Quartus, ISE, Code Vision, DXP, PSpice, keil Uvision, SIMATIC Manager
Type Setting	Microsoft Office, LATEX
Others	PLC, AVR, ARM, 8051, 80196, Raspberry Pi B



Javad Abbasi-Aghamaleki