



Mohsen Biglari

Ph.D. in Computer Engineering

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Current Address:

Department of Computer Engineering and Information Technology, Shahrood University, Shahrood, Semnan, Iran.
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Research Interests

- Programming!
- Machine Learning
- Artificial Intelligence
- Computer Vision
- Image/Video Processing
- Multi-core/Parallel Programming

Education

Ph.D. Student in Artificial Intelligence

Shahrood University, Shahrood, Semnan, Iran	2012-2017
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Advisor: Ali Soleimani

Co-Advisor: Hamid Hassanpour

Thesis Title: Vehicle Make and Model Recognition using Part-based Models

M.Sc. in Software Engineering

University of Kashan, Kashan, Esfahan, Iran	2010-2012
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Advisor: Hossein Ebrahimpour-Komleh

Thesis Title: Face Detection and Recognition with Parallel Algorithms using CUDA

B.Sc. in Computer Engineering

University of Kashan, Kashan, Esfahan, Iran	2006-2010
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Advisor: Ahmad Yoosofan

Thesis Title: A System for Translating Persian Sentences to English

Diploma in Mathematics and Physics Discipline

Shahid Ghoddusi High School, Ghom, Iran	2002-2005
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Affiliated with the National Organization for Development of Exceptional Talents

Honors and Awards

Ranked 1st in Ph.D., Shahrood University of Technology	2017
Selected as the Young Excelled in Science and Technology in the Province	2017
Winner of Annual Academic Award of the Elite National Foundation of Iran	2016
Ranked Top 10 Among All Ph.D. Students in Semnan, Iran	2015
Ranked 1st in Two First Years of Ph.D., Shahrood University of Technology	2014
Top Researcher in Shahrood University of Technology	2014
Top Researcher in Shahrood University of Technology	2013
3rd Place in International AmirKabir Artificial Intelligence Competition on Face Recognition (AAIC2013), Tehran, Iran	2013
Winner of Best Paper Position in The 5 th Conference on Information and Knowledge Technology (IKT2013), Shiraz, Iran	2013
1st Place in Handwritten Farsi/Arabic Digits Recognition Competition of the 1 st Iranian Conference on Pattern Recognition and Image Analysis (PRIA2013), Birjand, Iran	2013
Top Researcher in University of Kashan	2011
Ranked 1st in M.Sc., University of Kashan	2011
2nd Place in Region 5 of National Olympiad in Computer Engineering Field, Iran	2010
Ranked 2nd in B.Sc., University of Kashan	2010

Teaching Experiences

Lecturer

Fundamental Programming, Advanced Programming, Machine Language (Assembly), Data Structure Noore Danesh Institute	2012-2013
Design and Analysis of Algorithms Payam Nour University	2012-2013
Fundamental Programming, Advanced Programming, Design and Analysis of Algorithms, Machine Language (Assembly) Shahrood University Of Technology	2012-2013, 2015-2016
ACM Programming University of Kashan, Islamic Azad University of Kashan, Shahrood University Of Technology	2007-2011, 2013-2016
C# Programming, Java Programming, Jave Mobile (J2ME) Programming, Designing and Using DLLs University of Kashan	2010-2011
Android Programming Shahrood University Of Technology	2014-2016

Teaching Assistant

Advanced Programming	2008
Machine and Assembly Languages	2007
Algorithm Design	2007
Data Structure	2007
C++ Programming	2007

Projects

Implementation of Flight / Hotel / Bus / Train / Insurance Reservation Android/iOS Apps	One of the most complete reservation apps in Iran	2017-2018
Designing MadarYar Android App	First Persian baby care app for Iranian mothers	2015-Now
Designing BazarKhodro Android/iOS App	An app for buying and selling vehicles	2015
Designing ElecApps Android App	A Market for electrical apps	2015
Designing an Automatic Face Detection and Recognition System	University of Kashan	2011-2012
Designing an Automatic Fingerprint Recognition System	University of Kashan	2011-2012
Designing an OCR System for Persian Digits Recognition	Shahrood University	2011-2013
Designing a System for Managing Holiday Passengers	Kashan Department of Education	2008-2011
Designing MBTranslator Translator Assistant Software	A software for Persian translators to create movies/series subtitles	2008-2013
Designing a Windows-Mobile (two-side) CMS Application	An application for creating Mobile Applications without any coding, C#, J2ME, Android and iOS	2009-2016
Designing BehNama Java Mobile Library	A library for designing Mobile Applications easily and fast	2009-2013
Designing BehNevis Java Mobile Library	A library for using Persian in Mobile Applications	2009-2013
Designing and Development of More than 30 Windows and Mobile Applications	VB, C#, MATLAB, J2EE, J2ME, Android, iOS	2005-2016

Technical Skills

Desktop Programming Languages

Expert in C/C++, VB, VB.Net, C#.Net, Java Standard, MATLAB, and familiar with Assembly (8086), Python, Lisp, ML, F#

Multi-core Programming

Familiar with CUDA, MPI, MPJ, MATLAB HPC plugins

Mobile Programming Languages

Expert in Java Mobile (J2ME), Android, and iOS

Operating Systems

Expert in Windows (9x, XP, Vista, 7, 8, 10) and familiar with Linux (Ubuntu, Fedora)

Databases

Expert in SQL Server, Access, and familiar with Oracle

Reviewer in Conferences/Journals

IKT 2014 Conference

Shahrood University of Technology, Shahrood, Iran

ICSPIS 2016 Conference

AmirKabir University of Technology, Tehran, Iran

ICSPIS 2017 Conference

Shahrood University of Technology, Shahrood, Iran

JSCIT Journal

Journal of Soft Computing and Information Technology, Iran

IET Biometrics

IET Digital Library, The Institution of Engineering and Technology, England

Electronics Letters

IET Digital Library, The Institution of Engineering and Technology, England

Publications

Books

1	An Introduction to Programming Contests (In Persian) Co-author with Ahmad Yoosofan, Faezeh Mirzaei and Amin Babadi Publisher: Kashan, Shasusa	2016
2	ActiveX Design Learning (In Persian) Co-author with Ahmad Yoosofan Publisher: Kashan, Ahmad Yoosofan	2010

Journal Papers

1	A Novel Cascading Scheme to Improve Speed and Accuracy of a VMMR System <i>Mohsen Biglari</i> , Ali Soleimani , Hamid Hassanpour IJECE: Iranian Journal of Electrical and Computer Engineering	2017
2	A Cascading Scheme for Speeding up Multiple Classifier Systems <i>Mohsen Biglari</i> , Ali Soleimani, Hamid Hassanpour Pattern Analysis and Applications	2017
3	A Cascaded Part-based System for Fine-grained Vehicle Classification <i>Mohsen Biglari</i> , Ali Soleimani, Hamid Hassanpour IEEE Transactions on Intelligent Transportation Systems	2017
4	Using Discriminative Parts for Vehicle Make and Model Recognition <i>Mohsen Biglari</i> , Ali Soleimani, Hamid Hassanpour JSDP: Journal of Signal and Data Processing	2017
5	Part-Based Recognition of Vehicle Make and Model <i>Mohsen Biglari</i> , Ali Soleimani, Hamid Hassanpour IET Image Processing	2017
6	A Comparison between Holistic and Part-Based Approaches and Proposing a New Approach for Vehicle Make and Model Recognition (In Persian) <i>Mohsen Biglari</i> , Ali Soleimani SCJ: Soft Computing Journal	2017

7	Fine-grained Vehicle Classification using Similar Auto Extracted Parts (In Persian) <i>Mohsen Biglari, Ali Soleimani, Hamid Hassanpour</i>	2017
MVIP: Machine Vision and Image Processing		
8	A Secure Algorithm for Solving Fingerprint Classification Problems (In Persian) <i>Faezeh Mirzaei, Hossein Ebrahimpour-Komleh, Mohsen Biglari</i>	2015
IJECE: Iranian Journal of Electrical and Computer Engineering		
9	Designing an Online Face Recognition System using Graphics Processor (In Persian) <i>Mohsen Biglari, Faezeh Mirzaei, Hossein Ebrahimpour-Komleh</i>	2014
JCSE: The CSI Journal on Computer Science and Engineering		
10	Persian/Arabic Handwritten Digit Recognition Using Local Binary Pattern <i>Mohsen Biglari, Faezeh Mirzaei, Jalil Ghavidel Neycharan</i>	2014
IJDWC: International Journal of Digital Information and Wireless Communications		
11	Illumination Invariant Face Recognition using SQI and Weighted LBP Histogram <i>Mohsen Biglari, Faezeh Mirzaei, Hossein Ebrahimpour-Komleh</i>	2013
MJEE: Majlesi Journal of Electrical Engineering		
12	A Novel Method for Robust Fingerprint Matching, Using Graphics Processors, By CUDA (In Persian) <i>Faezeh Mirzaei, Mohsen Biglari, Hossein Ebrahimpour-Komleh</i>	2013
JSCIT: Journal of Soft Computing and Information Technology		
13	A Novel Rule-based Fingerprint Classification Approach <i>Faezeh Mirzaei, Mohsen Biglari, Hossein Ebrahimpour-Komleh</i>	2013
IJDWC: International Journal of Digital Information and Wireless Communications		

Conference Papers

1	Vehicle Make and Model Recognition using Auto Extracted Parts <i>Mohsen Biglari, Ali Soleimani, Hamid Hassanpour</i> 2017 ITSCongress2017: The 2nd International ITS Congress, Tehran, Iran
2	Vehicle Make and Model Recognition using a Combination of Part-based Models (In Persian) <i>Mohsen Biglari, Ali Soleimani, Hamid Hassanpour</i> 2016 ICSPIS2016: The 2nd International Conference on Signal Processing and Intelligent Systems, Tehran, Iran
3	Persian Handwritten Digit Recognition Using LBP Operator (In Persian) <i>Faezeh Mirzaei, Mohsen Biglari, Jalil Ghavidel Neycharan, Seyed Ali Soleimani</i> 2014 IKT2014: The 6 th Conference on Information and Knowledge Technology, Shahrood, Iran
4	Robust Feature Extraction Using Gabor Filter, LBP and LDA for Face Recognition (In Persian) <i>Mohsen Biglari, Jalil Ghavidel Neycharan, Faezeh Mirzaei, Seyed Ali Soleimani</i> 2014 IKT2014: The 6 th Conference on Information and Knowledge Technology, Shahrood, Iran
5	BehNama, a Library for Designing Mobile User Interface (In Persian) <i>Mohsen Biglari, Seyed Ali Soleimani</i> 2014 IKT2014: The 6 th Conference on Information and Knowledge Technology, Shahrood, Iran
6	Designing a Fast and Invariant to Illumination Face Recognition System using Graphics Processors (In Persian) <i>Mohsen Biglari, Faezeh Mirzaei, Seyed Ali Soleimani</i> 2013 IKT2013: The 5 th Conference on Information and Knowledge Technology, Shiraz, Iran
7	A Fast, Accurate and Comprehensive Algorithm for Writing Persian in Mobile Applications (In Persian) <i>Mohsen Biglari, Seyed Ali Soleimani</i> 2013 IKT2013: The 5 th Conference on Information and Knowledge Technology, Shiraz, Iran
8	A Minutiae-Based Method for Accurate and Fast Fingerprint Matching with Parallel Algorithms using CUDA (In Persian) <i>Faezeh Mirzaei, Mohsen Biglari, Hossein Ebrahimpour-Komleh</i> 2013 IKT2013: The 5 th Conference on Information and Knowledge Technology, Shiraz, Iran

9	<p>A Novel and Robust Algorithm to Rotation and Translation for Fingerprint Matching (In Persian) Faezeh Mirzaei, <i>Mohsen Biglari</i>, Hossein Ebrahimpour-Komleh 2013 ICIS2013: The 11th Iranian Conference on Intelligent Systems, Tehran, Iran</p>
10	<p>Secure and Fast Classification of Fingerprints based on Probabilistic Ranking (In Persian) Faezeh Mirzaei, <i>Mohsen Biglari</i>, Hossein Ebrahimpour-Komleh 2013 ICIS2013: The 11th Iranian Conference on Intelligent Systems, Tehran, Iran</p>
11	<p>A Novel and Fast Face Detection System Using an Extended Set of Rectangular Features (In Persian) <i>Mohsen Biglari</i>, Faezeh Mirzaei, Hossein Ebrahimpour-Komleh 2013 PRIA2013: The 1st Iranian Conference on Pattern Recognition and Image Analysis, Birjand, Iran</p>
12	<p>Design, Implementation and Evaluation of a Structure for Secure Message Passing in a Cluster Environment (In Persian) <i>Mohsen Biglari</i>, Faezeh Mirzaei, Seyed Morteza Babamir 2012 IKT2012: The 4th Conference on Information and Knowledge Technology, Babol, Iran</p>
13	<p>A Fast and Robust Face Recognition Approach Using Weighted Haar and Weighted LBP Histogram <i>Mohsen Biglari</i>, Faezeh Mirzaei, Hossein Ebrahimpour-Komleh 2012 CICIS2012: The 3rd International Conference on Contemporary Issues in Computer and Information Sciences, Zanjan, Iran</p>
14	<p>Impact of Enhancement Methods on a New Fingerprint Singular Points Detection System (In Persian) Faezeh Mirzaei, <i>Mohsen Biglari</i>, Hossein Ebrahimpour-Komleh 2012 CSEIT2012: The 1st National Conference on Computer Science and Engineering and Information Technology, Shiraz, Iran</p>
15	<p>First and Second Singular Points Detection In Noisy Images for Designing a Fingerprint Classification System (In Persian) Faezeh Mirzaei, <i>Mohsen Biglari</i>, Hossein Ebrahimpour-Komleh 2012 NCNIEE2012: The 1st Conference on Novel Advances in Electrical Engineering, Esfahan, Iran</p>

16	Design and Implementation of a Persian to English Translator System (In Persian) Faezeh Mirzaei, <i>Mohsen Biglari</i> , Ahmad Yoosofan, Emad Bayat 2012 ICPLP2012: The 1 st International Conference on Persian Language Processing, Semnan, Iran
17	Web-Based Virtual Class Implementation using Flash Media Server (In Persian) Ahmad Yoosofan, Mojtaba Anaami, <i>Mohsen Biglari</i> 2010 CSICC2010: The 15 th Annual CSI Conference, Tehran, Iran
18	Automatic Conversation of DehKhoda Dictionary's Words to IPA Template (In Persian) Ahmad Yoosofan, Khadije Jafari, <i>Mohsen Biglari</i> 2010 NEEC2010: The 2 nd National Electrical Engineering Conference, Esfahan, Iran

References

Dr. Ali Soleimani

Computer and Electrical Engineering Department, Shahrood University	Associate Professor
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Dr. Hamid Hassanpour

Computer and Information Technology Department, Shahrood University	Full Professor
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Computer Engineering Department, University of Kashan	Assistant Professor
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Dr. Seyyed Morteza Babamir

Computer Engineering Department, University of Kashan	Associate Professor
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Ahmad Yoosofan

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