

Farid GharehMohammadi

CONTACT INFORMATION	Department of Computer Science, University of Georgia	E-mail: farid.ghm@uga.edu LinkedIn — Google Scholar Citations
RESEARCH INTERESTS	<ul style="list-style-type: none"> • Computer Vision and Image Processing: Low shot learning, deep learning based image Segmentation, deep-learning based image editing and generation, data-driven artistic content creation, other image processing topics (Image Segmentation, Object Detection, etc) • Machine Learning and Optimization: Evolutionary and Meta-Heuristic algorithms, Deep Learning, Data Mining topics (Pre-analysis algorithms, Classification and Clustering, Prediction and Rule Extraction, Visualization, etc). • Software Engineering: Software analysis, Software designing, Software programming. 	
EDUCATION	The University of Georgia, USA: Ph.D in Computer Science, GPA 4.0/4.0. Dec. 2022 Tarbiat Modares University, Iran: M.Sc in Computer Engineering - Software. Nov. 2013 Payam Noor University, Iran: B.S. in Computer Engineering - Software. Jul. 2010	
TECHNICAL EXPERIENCE	<ul style="list-style-type: none"> • 2+ years individual image processing experiences: Strong edge detector skills, skilled at detecting stego images, applying morphological operators and image segmentation • 8+ years individual programming experiences: Strong designing, analyzing, developing and interpersonal skills, skilled at handling multiple tasks, problem solver • 4+ years industry experiences: Having a professional collaboration with team members • 1+ year a leader of the development team: United the team members and worked together productively, Extreme ability to create a dynamic enterprise system 	
SKILLS	Software Engineering Methodologies: RUP, Agile, Waterfall, Scrum. Software Engineering Tools: IBM Rational Software Architect, Enterprise Architect, Jira, Wiki, Axure Programming Languages: C, C++, C#, Java, Java EE, Python. Data Mining Software: Weka, RapidMiner. Professional Packages / libraries, but not limited to: Panda, Numpy, Scikit, OpenCV. Database Management Systems: Oracle, DB2, Microsoft SQL Server and Express, MySQL. Web Technologies: Spring, Hibernate, Html, Xhtml, JSF, Java script, Web Service. JAX-WS. OS: Windows Family, Linux. Other App: MATLAB, \LaTeX , Microsoft Office, Idea, Eclipse, NetBeans, NoteBook Jupiter, Spyder.	
HONORS AND AWARDS	<ul style="list-style-type: none"> • The 2019 POOIA Outstanding Achievement Award in recognition of sustained record of academic excellence 2019 • Outstanding Reviewer in Journal of Visual Communication and Image Representation 2017 • Most downloaded chapter in the book entitled "Recent Advances in Steganography" • Ranked 141th Among about 26000 participants in the Nationwide University Entrance Exams for M.Sc. Degree.top 0.05 2011 • First Prize in Mianeh city Mathematic Competition 2004 -Ranked 1st among all competitors over Mianeh city, East Azerbaijan Province, Iran 	
RESEARCH, TEACHING EXPERIENCE	Research Assistant, @ UGA Sep. 2018 to Now <ul style="list-style-type: none"> • Worked on image steganalysis using artificial bee colony. • Worked on Vision-based Hull Measurements for Automated Peanut Maturity Estimation, Funding from the Georgia Peanut Commission, [5] • Mentor: Hamid R. Arabnia, Kyle Johnsen Research Assistant , @ University of Tehran Sep. 2015 to april. 2017 <ul style="list-style-type: none"> • Customized a new version of Artificial Bee colony and applied on special domain to seek for the optimal sub-image that carries the hidden messages. I proposed a new method called RISAB, Region based Image Steganalysis using Artificial Bee colony.[1] • Mentor: Hedieh Sajedi Research Assistant , @ Tarbiat Modares University Sep. 2011 to Nov. 2013 <ul style="list-style-type: none"> • Worked on Image steganalysis using Artificial bee colony to detect Stego images from cover ones.[2][3][4][6][7] • Mentors: Mohammad Saniee Abadeh, Nasrollah Moghadam Charkari Teaching Assistant	

	<ul style="list-style-type: none"> Discrete Mathematics, Head TA. , @ UGA. Spring. 2019 System Development (C / C++ in linux) , Head TA. , @ UGA. Fall. 2018 Software Development (Java in linux), @ UGA Summer. 2018 Discrete Mathematics, @ UGA. Spring. 2018 Data Mining @ Tarbiat Modares University. Spring. 2013
PROFESSIONAL SERVICE	<p>Reviewer</p> <ul style="list-style-type: none"> <i>The Journal of Supercomputing</i> 2019 <i>IEEE Signal Processing Letters</i> 2018, 2019 <i>Journal of Visual Communication and Image Representation</i> 2017, 2018 <i>Journal of Electronic Imaging</i> 2016, 2018 <i>Security And Communication Networks</i> 2014 <i>IEEE Systems Journal</i> 2013
SELECTED JOURNAL PAPERS	<p>[1] Farid GharehMohammadi, and Hedieh Sajedi," Region based Image Steganalysis using Artificial Bee colony", Journal of Visual Communication and Image Representation, vol. 44, pp. 214-226, April 2017. doi:10.1016/j.jvcir.2016.12.003</p> <p>[2] Farid GharehMohammadi, and Mohammad Saniee Abadeh," Image Steganalysis Using a Bee Colony Based Feature Selection Algorithm", Engineering applications of artificial intelligence vol. 31, pp. 35-43, May 2014. doi:10.1016/j.engappai.2013.09.016</p> <p>[3] Farid GharehMohammadi, and Mohammad Saniee Abadeh, "A new metaheuristic feature subset selection approach for image steganalysis", Journal of Intelligent and Fuzzy Systems, vol. 27, no. 3, pp. 1445-1455, 2014. doi:10.3233/IFS-131111</p> <p>[4] Danial Jalalnouri, Mohammad Saniee Abadeh, Farid GharehMohammadi, " HYEI: A novel Hybridization algorithm of Evolutionary fuzzy systems and Imperialist competitive algorithm for fuzzy model generation", Advances in fuzzy system, pp. 1687-7101 , 2014. doi:10.1155/2014/970541</p>
CONFERENCE PUBLICATIONS	<p>[5] Farid GharehMohammadi, Boland B, Zhao Z, Tse T, Leo D and Johnsen K, " Vision-based Hull Measurements for automated Peanut Maturity Estimation", 2018 Workshop on Advancing Informatics in Government and Engineering. 30 Nov 2018.</p> <p>[6] Farid GharehMohammadi, and Mohammad Saniee Abadeh, "An improved image steganalysis using a novel feature selection algorithm based on artificial bee colony", Intelligent Systems and Decision Making for Risk Analysis and Crisis Response: Proceedings of the 4th International Conference on Risk Analysis and Crisis Response, Istanbul, Turkey, pp. 593-598, 27-29 August 2013. doi: 10.1201/b16038-84</p>
BOOK CHAPTERS	<p>[7] Farid GharehMohammadi, Mohammad Saniee Abadeh "A Survey of Data Mining Techniques for Steganalysis", Recent Advances in Steganography, ISBN: 978-953-51-0840-5, InTech, pp. 1-22, 2012. doi:10.5772/53989</p>
PROFESSIONAL EXPERIENCE	<p>Navaco Information Technology Company ,Tehran, Iran Oct. 2016 to Nov. 2017</p> <p>Core Banking, Software Designer and Senior Java EE Developer</p> <ul style="list-style-type: none"> Designed and developed Lending sub-system Designed and developed Letter of Credit (LC) sub-system Worked with Oracle and Java 2EE (Hibernate, Spring), Wiki, Axure. <p>Yaas Arghavani System Engineering Company Tehran, Iran Oct. 2014 to Sep. 2016</p> <p>Debt Management System, Software Designer and Senior Java 2EE Developer</p> <ul style="list-style-type: none"> Leading Team: working with 6 other teammates and solving their implementation problem Developed Web-services for Mellat Bank: 30+ web-services are implemented to fetch Bank customers information Worked with DB2, Java EE (Hibernate, Spring, JSF,JAX-WS) <p>Online Loan Management System (TAAM), Senior Java EE developer</p> <ul style="list-style-type: none"> Problem Solver:Maintained TAAM system and solved majority of un-handled problems in the shortest time in a technical innovative , and dynamic way Worked with DB2, Java EE(Hibernate, Spring, Struts, BP) <p>Rayan Eghtesad Novin Company , Tehran, Iran Feb. 2014 to Sep. 2014</p>

Core Banking, Software Designer

- *Designed ACH sub-System with Enterprise Architecture (EA)*
- *Worked with WIKI, Microsoft Office Word, Eclipse*
- *Technologies :Hibernate, Spring, EJB, BPMN*