

Curriculum Vitae

Farhad Soleimanian Gharehchopogh (Ph.D)

Ph.D. in Computer Engineering from Hacettepe University, Ankara, TURKEY

Associate Prof. Dr in Computer Engineering Department, Urmia Branch, Islamic Azad University, Urmia, IRAN

Last Updated:15.10.2023

Information ID:



- Name and Surname: Farhad Soleimanian Gharehchopogh
- Science Ranking: Associate Professor (from 2022-01-30)
- Date and Place of Birth: 1979, Gharehchopogh -East Azerbaijan-Iran
- Emails: bonab.farhad@gmail.com and farhad.soleimanian@gmail.com
- Nationality: Iranian Phone Number: +989141764427
- Language: Azaerbaycani, Persian, Turkish, English
- Web of Science Researcher ID (Publons): AAX-9598-2020

- Google Scholar: https://scholar.google.com.tr/citations?hl=en&user=hLubLLsAAAAJ&view_op=list_works&authuser=1&sortby=pubdate
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- Scopus Author ID: 36650599500
- Research Gate ID link: <https://www.researchgate.net/profile/Farhad-Soleimanian-Gharehchopogh>
- SCIMET: https://scimet.iau.ir/Farhad_SoleimanianGharehchopogh

Education:

- **Ph.D.:** Department of Computer Engineering, Hacettepe University, 2011.02.15-2015.09.15, Ankara, Turkey.
Thesis title: Open Domain Factoid Question Answering Systems (Date of Defense: 2015.09.15)
Supervisor: Prof.Dr. Ilyas CICEKLI
- **MSc:** Department of Computer Engineering, Cukurova University, 2009.02.15 -2011.01.19, Adana, Turkey.
Thesis title: A Multi-Agent System Based Solution for Deadlock Prevention in Operating Systems (NO: 283257)
(Date of Defense: 2011.01.19) Supervisor: Prof.Dr. Mutlu AVCI
- **English Learning,** Department of Language and Literature, Cukurova University, (2007/2/15-2009/2/10), Adana, Turkey.
- **BSc:** Department of Computer Engineering (Software Engineering), Islamic Azad University Shabestar Branch, 1999-2003, Shabestar, Iran.
Thesis Title: Design and Implementation Shop Systems in Rational Ross Software and Generating Code by Delphi.
Supervisor: Prof. Dr. Mohammad Ali BALAFAR

Academic Experiences:

➤ Educational

- Member of Academic Staff, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Iran. (10.02.2016 - Continue).
- Senior Lecturer, Department of Computer Engineering, Science and Research Branch, Islamic Azad University, West Azerbaijan, Iran, from spring 2011-2012 semesters to spring 2013-2014 semesters (5 semesters).
- Member of Academic Staff, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Iran. (15.02.2012-15.02.2014).
- Lecturer in the Payam Nour Universities, Iran, 2004.09.15-2006.06.15 and spring 2012-2013 semesters.
- Lecturer in the Islamic Azad Universities, Iran, 2004.09.15-2006.06.15.

➤ Executive

- Member of Research Council, Faculty of Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, (2017.02.01- 2019.03.01).
- Member of Educational Council, Faculty of Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, (2017.01.01- 2019.01.01).
- Member of Research Council, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, (2016.02.01- ...).
- Member of Educational Council, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, (2016.02.01- ..).

Awards and Honors:

- World's Top 2% most-cited scientists, Stanford University, 2023
- World's Top 2% most-cited scientists, Stanford University, 2022.
- Top Researcher of the West Azerbaijan Province, Iran, 2022.
- Top Researcher of the Faculty of Engineering, West Azerbaijan Province, Iran, 2021.
- Top Researcher of the West Azerbaijan Province, Iran, 2020.
- Top Researcher of the Faculty of Engineering, Urmia Branch, Islamic Azad University, Urmia, Iran, 2019.
- Top researcher among Iranian students abroad, Ministry of Science and Technology of the Islamic Republic of Iran. 2011.
- MSc Scholarship 2 years and Ph.D. Scholarship 4 years from TUBITAK Turkey.

Teaching Course in the Department of Computer Engineering:

Graduate level :

- Data Mining
- Search Engine and Web Mining
- Decision systems
- Parallel Algorithms
- Optimization
- Research methods

Under Graduate level:

- Programming (Beginning and Advanced)
- Data Structure and Algorithms
- Compiler Design and Implementation
- Operating Systems
- Artificial Intelligence
- Research Method
- Technical English

My Ph.D. Student: (This part is not Up to Date from 2020.8.2)

Supervisor:

- 1) Hekmat Mohammadzadeh, “**Multi-Agent-Based Solution for Email Spam Detection**”, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN (Data of Defense 2020.04.08).
- 2) Ali Huseinalipour, “**Psychology Analysis of Author's Emotions Using Meta-heuristic Algorithms**”, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, **Co-Supervisor:** Dr. Mohammad Masdari, **Advisor:** Dr. Ali Khademi .(Data of Defense 2021.06.15).
- 3) Aitak Shaddeli,” **An Effective Feature Selection for Improving Deep Learning Algorithms in Sentiment Analysis of Movie Reviews**”, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, Co-supervisor: Dr mohammad Masdari, **Advisor:** Dr Valid Soluk.(Data of Defense 2022.07.15).
- 4) Leila Baradaran Sorkhabi, “**A Tensor-Based Model for Mining Medical Big Data using Deep Learning in Precision Medicine**”, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, **Advisor:** Dr Jafar Shahamfar.
- 5) Fatemeh Hoseini, “**Multi-objective Botnet Detection in Internet of Things using Metaheuristic Algorithms**” Department of Computer Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, **Advisor:** Dr mohammad Masdari.

Co-Supervisor:

- 6) Keyvan Asghari, “**Optimization of Bayesian Network with a Multi-objective Meta-heuristic Algorithm for Intrusion Detection Systems**”, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, **Supervisor:** Dr. Mohammad Masdari, **Advisor:** Dr. Rahim Sanei Fard.(Data of Defense 2020.10.15).
- 7) Mohammad Hoseinnejad Ghavifekr, “**An Improved Multi-Objective Optimization Algorithm for Feature Selection in Intrusion Detection Systems**”, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, **Supervisor:** Dr. Mohammad Masdari, **Advisor:** Dr. Rahim Sanei Fard.(Not Finished Yet).
- 8) Ali Mohammadzadeh, “**Multi-objective and Evolutionary Workflow Scheduling for Green Cloud Computing**”, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, **Supervisor:** Dr. Mohammad Masdari, **Advisor:** Dr. Ahmad Jafarian.(Data of Defense 2020.08.5).

Advisor:

- 1) Amjad Osmani, “**Sentiment Analysis in Texts Using Topic Modeling**”, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, **Supervisor:** Dr Jamshid Bagherzadeh Mahasefi (date of defense 2020.02.02).
- 2) Maryam Samadi bonab, “**Wrapper based Feature Selection for Improve Instruction Detection**”, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, **Supervisor:** Dr Ali Ghaffari, (Data of Defense 2020.06.5).
- 3) Majid Huseinpour Aghdam, “**Automatic Text Summarization with Probably Productive Models**”, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, **Supervisor:** Dr Jamshid Bagherzadeh Mahasefi (Not Finished Yet).
- 4) Faezeh Badihiye Agdam, “**Aspect Based Sentiment Analysis of Social Networks**”, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, **Supervisor:** Dr Jamshid Bagherzadeh Mahasefi (Not Finished Yet).
- 5) Mehdi Ayar, “**Extraction of Optimal Features from ECG Data and Classification of Arrhythmias using a Multi-Objective Hybrid Method**”, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, **Supervisor:** Dr Ayaz Isazadeh, **Co_Advisor:** Dr Mir hojjat Seyyedi (Not Finished Yet).
- 6) Saeid Ahmadi, “**Controlled Text Generation Using Generative Adversarial Networks**”, Department of Computer Engineering, Urmia Branch, Islamic Azad University, Urmia, IRAN, **Supervisor:** Dr Ayaz Isazadeh, (Not Finished Yet).

My M.Sc Students: (This part is not Up to Date from 2018.2.2)

- 1) **Ruhin Naseri Dilmaghani**, An Improved Distribution Estimation Algorithm with Particle Swarm Optimization Algorithm for Author Identification Text Documents, Urmia Branch, Islamic Azad University, Urmia, IRAN, 2018.
- 2) **Sajjad Gizilbashi**, A New Approach for Spam E-Mail Detection by Using Hybrid Model of Genetic and Ant Colony Optimization Algorithms, Urmia Branch, Islamic Azad University, Urmia, IRAN, 2018
- 3) **Leila Naseri**, An Improved Ant Colony Optimization with Firefly Algorithm for Future Selection in Author Identification Text Document, Maragheh Branch, Islamic Azad University, Maragheh, IRAN, 2017.
- 4) **Jafar Abdali**, An Improved K-means Algorithm with Artificial Bee Colony Algorithm for Feature Selection in Text Document Classification, Maragheh Branch, Islamic Azad University, Maragheh, IRAN, 2017.
- 5) **Saman Khalandi**, An Improved Invasive Weed Optimization with Naive Bayes for Feature Selection in Text Documents Classification, Urmia Branch, Islamic Azad University, Urmia, IRAN, 2017.

- 6) **Azadeh Salamzadeh**, An Improved Multilayer Perceptron Artificial Neural Network with Particle Swarm Optimization Algorithm for Author Identification Text Documents, Urmia Branch, Islamic Azad University, Urmia, IRAN, 2017.
- 7) **Mustafa Mahmoudi**, An Improved Frog-Leaping Algorithm with Decision Tree for Feature Selection in Text Documents Classification, Urmia Branch, Islamic Azad University, Urmia, IRAN, 2017.
- 8) **Hiwa Majidpour**, An Improved Flower Pollination Algorithm with AdaBoost Algorithm for Feature Selection in Text Documents Classification, Urmia Branch, Islamic Azad University, Urmia, IRAN, 2017.
- 9) **Khadije Ghader Hasan**, Parallel Artificial Bee Colony Algorithms Approach for Designing Optimal Binary Search Tree, Urmia Branch, Islamic Azad University, Urmia, IRAN, 2017.
- 10) **Pegah Ahmadi**, A New Approach in Software Cost Estimation with Hybrid Model Genetic and Artificial Bee Colony Algorithms, Kermanshah Branch, Islamic Azad University, Kermanshah, IRAN, 2017.
- 11) **Zahra Hasanlou**, A New Approach for Features Selection in Author Identification Text Documents by Using Hybrid Model of K-Nearest Neighbor and Support Vector Machine Algorithms, Urmia Branch, Islamic Azad University, Urmia, IRAN, 2017.
- 12) **Elnaz Abazari**, A New Approach for E-mail Spam Detection by Using Hybrid Model of Bat and Firefly Algorithms, Urmia Branch, Islamic Azad University, Urmia, IRAN, 2017.
- 13) **Samira Niknam khajeh Pasha**, A New Approach for Author Identification Text Documents by Using Hybrid Model of Genetic and Support Vector Machine Algorithms, Urmia Branch, Islamic Azad University, Urmia, IRAN, 2017.
- 14) **Parvin Mohammadi**, A New Approach for Spam E-Mail Detection by Using Hybrid Model of Cuckoo and Firefly Algorithms, Urmia Branch, Islamic Azad University, Urmia, IRAN, 2017.

Membership in Scientific Societies: (this part is not Up to Date from 2017.01.09)

- **Founder and Editor-in-Chief**, the [International Journal of Advanced Research in Computer Engineering \(IJARCE\)](#).
- **ACM Student Capture** in Hacettepe University, Ankara, Turkey.
- **Editorial Team** in [American Journal of Software Engineering and Applications \(AJSEA\)](#)
- **Editorial Team** in [Software Engineering \(SE\)](#)
- **Editorial Team** in [International Journal of Cloud Computing and Service Science \(IJ-CLOSER\)](#)
- **Editorial Team** in [IAES International Journal of Artificial Intelligence \(IJ-AI\)](#).
- **Editorial Team** in [The International Journal of Computer Science and Application \(TIJCSA\)](#)
- **Editorial Team** in [International Journal in Foundations of Computer Science & Technology \(IJFCST\)](#)
- **Editorial Team** in [International Journal of Scientific Engineering and Research \(IJSER\)](#)
- **Editorial Team** in [International Journal of Computer Graphics & Animation \(IJCGA\)](#)
- **Editorial Team** in [International Journal on Cybernetics & Informatics \(IJCI\)](#)
- **Editorial Team** in [International Journal of Managing Value and Supply Chains \(IJMVSC\)](#)

- **Review Board** in *irict2016, ICCSEA-2015, wimo-2014, DMDB-2014, GridCom-2014, P2PTM-2014, InWeS-2014, ICDIP 2014, ICAIT 2014, UbiC-2014, CSSS2014, CHUSER'2014, ICCMA'2013, IEEEHSE'2013, TAECE2013, ICIA2013, ICCSA'2013, ICCST'2013, ICEEE2013, ICDIPC'2013, ICEIT'2013, ICIAR'2013, ICIMT'2013, ICISA'2013, ICNA'2013, ICSCA'2013, ICSE'2013, CHUSER'2012, ICCSCE'2012, and ICSPiE'2013 Conferences.*

Publication list:

1) Thesis:

1. **Ph.D** : “**Open Domain Factoid Question Answering System**”, Department of Computer Engineering, Hacettepe University, Summer 2015, Ankara, Turkey, (Language: English).
2. **MSc**: “**A Multi Agent System Based Solution for Deadlock Prevention in Operating Systems**”, Department of Computer Engineering, Cukurova University, winter 2011, Adana, Turkey, (Language: English).
3. **BSc**: “**Design and Implementation Shop Systems in Rational Ross Software and Generating Code by Delphi**”, Department of Computer Engineering, Shabestar Branch, Islamic Azad University, Winter 2003, Shabestar, Iran, (Language: Persian).

2) Books and Book Chapter

4. **FS Gharehchopogh**, B Abdollahzadeh, N Khodadadi, S Mirjalili, **Metaheuristics for clustering problems**, Comprehensive Metaheuristics Algorithms and Applications 1, Chapter 20, 2023.
5. N Khodadadi, **FS Gharehchopogh**, B Abdollahzadeh, S Mirjalili, **Space truss structures’ optimization using metaheuristic optimization algorithms**, Comprehensive Metaheuristics Algorithms and Applications 1, Chapter 9, 2023.
6. **FS Gharehchopogh**, B Abdollahzadeh, N Khodadadi, S Mirjalili, **A Hybrid African Vulture Optimization Algorithm and Harmony Search: Algorithm and Application in Clustering**, Studies in Computational Intelligence, 241-254, 2023
7. **F.S. Gharehchopogh**, H.Shayanfar, **Automatic Data Clustering Using Farmland Fertility Metaheuristic Algorithm**, Advances in Swarm Intelligence, 2022 (Elsevier Book Chapter)
8. S .Ghafari, **F.S. Gharehchopogh**, **A Multi-Objective Cuckoo Search Algorithm for Community Detection in Social Networks**, Multi-Objective Combinatorial Optimization Problems and Solution Methods, 2021 (Elsevier Book Chapter)
9. **F.S. Gharehchopogh**, M. Avci, **Multi Agent Systems for Deadlock Prevention**, LAP LAMBERT Academic Publishing, ISBN: 978-3-659-50673-4, 2013, (Language: English).
10. Farhad SOLEIMANIAN, “Operating Systems for Master’s Exam (سیستم عامل کارشناسی ارشد)”, Navin Pajuhesh publications, Tehran, Iran, 2007. (Language: Persian)
11. Farhad SOLEIMANIAN, Mehdi VANDJALILI, “Windows Registry Tracks (ترفندهای رجیستری ویندوز)”, Navin Pajuhesh publications, Tehran, Iran, 2007. (Language: Persian)

3) Papers:

A. Journal Papers ((Indexed in SCI/SCIE/SSCI/SCOPUS) (**This section was updated in 2023.3.30**)

- 7
- 8 **Gharehchopogh, F. S.**, Ucan, A., Ibrikci, T., Arasteh, B., & Isik, G. Slime Mould Algorithm: A Comprehensive Survey of Its Variants and Applications. *Archives of Computational Methods in Engineering*, 1-41, 2023.
- 9 **Gharehchopogh, F. S.**, Namazi, M., Ebrahimi, L., & Abdollahzadeh, B.. Advances in sparrow search algorithm: a comprehensive survey. *Archives of Computational Methods in Engineering*, 30(1), 427-455, 2023
- 10 Asgharzadeh, H., Ghaffari, A., Masdari, M., & **Gharehchopogh, F.S.**, Anomaly-based Intrusion Detection System in the Internet of Things using a Convolutional Neural Network and Multi-Objective Enhanced Capuchin Search Algorithm. *Journal of Parallel and Distributed Computing*, 2023.
- 11 **Gharehchopogh, F. S.**, Nadimi-Shahraki, M. H., Barshandeh, S., Abdollahzadeh, B., & Zamani, H., CQFFA: A chaotic quasi-oppositional farmland fertility algorithm for solving engineering optimization problems. *Journal of Bionic Engineering*, 20(1), 158-183, 2023.
- 12 Arasteh, B., Ghanbarzadeh, R., **Gharehchopogh, F. S.**, & Hosseinalipour, A. Generating the structural graph-based model from a program source-code using chaotic forrest optimization algorithm. *Expert systems*, e13228., 2023.
- 13 Shen, Y., Zhang, C., **Gharehchopogh, F. S.**, & Mirjalili, S. An improved whale optimization algorithm based on multi-population evolution for global optimization and engineering design problems. *Expert Systems with Applications*, 215, 119269, 2023.
- 14 Shaddeli, A., **Gharehchopogh, F. S.**, Masdari, M., & Solouk, V. , BFRA: A New Binary Hyper-Heuristics Feature Ranks Algorithm for Feature Selection in High-Dimensional Classification Data. *International Journal of Information Technology & Decision Making (IJITDM)*, 22(01), 471-536, 2023.
- 15 Sharma, S., Khodadadi, N., Saha, A. K., **Gharehchopogh, F. S.**, & Mirjalili, S., Non-dominated sorting advanced butterfly optimization algorithm for multi-objective problems. *Journal of Bionic Engineering*, 20(2), 819-843, 2023.
- 16 **Gharehchopogh, F.S.**, An Improved Harris Hawks Optimization Algorithm with Multi-strategy for Community Detection in Social Network. *Journal of Bionic Engineering*, 1-23, 2022.
- 17 Abdollahzadeh, B., **Gharehchopogh, F. S.**, Khodadadi, N., & Mirjalili, S.. Mountain gazelle optimizer: a new nature-inspired metaheuristic algorithm for global optimization problems. *Advances in Engineering Software*, 174, 103282, 2022.

- 18 Kheradmand, B., Ghaffari, A., **Gharehchopogh, F. S.**, & Masdari, M., Clustering-based routing protocol using gray wolf optimization and technique for order of preference by similarity to ideal solution algorithms in the vehicular ad hoc networks. *Concurrency and Computation: Practice and Experience*, 34(23), e7209, 2022.
- 19 **Gharehchopogh, F.S.**, Quantum-inspired metaheuristic algorithms: Comprehensive survey and classification. *Artificial Intelligence Review*, 1-65, 2022.
- 20 Shaddeli, A., **Gharehchopogh, F.S.**, Masdari, M., & Solouk, V., An Improved African Vulture Optimization Algorithm for Feature Selection Problems and Its Application of Sentiment Analysis on Movie Reviews. *Big Data and Cognitive Computing*, 6(4), 104, 2022.
- 21 Hosseini, F., **Gharehchopogh, F. S.**, & Masdari, M., MOAEOSCA: an enhanced multi-objective hybrid artificial ecosystem-based optimization with sine cosine algorithm for feature selection in botnet detection in IoT. *Multimedia Tools and Applications*, 1-31, 2022.
- 22 **Gharehchopogh, F. S.**, Abdollahzadeh, B., & Arasteh, B., An improved farmland fertility algorithm with hyper-heuristic approach for solving travelling salesman problem, 2022.
- 23 Mahalleh, E. R., & **Gharehchopogh, F. S.** (2022). An automatic text summarization based on valuable sentences selection. *International Journal of Information Technology*, 14(6), 2963-2969, 2022.
- 24 Hosseini, F., **Gharehchopogh, F. S.**, & Masdari, M., A Botnet Detection in IoT Using a Hybrid Multi-objective Optimization Algorithm. *New Generation Computing*, 40(3), 809-843, 2022.
- 25 Khodadadi, N., **Gharehchopogh, F. S.**, & Mirjalili, S., MOAVOA: a new multi-objective artificial vultures optimization algorithm. *Neural Computing and Applications*, 1-39, 2022.
- 26 Piri, J., Mohapatra, P., Acharya, B., **Gharehchopogh, F. S.**, Gerogiannis, V. C., Kanavos, A., & Manika, S., Feature selection using artificial gorilla troop optimization for biomedical data: A case analysis with COVID-19 data. *Mathematics*, 10(15), 2742, 2022.
- 27 Kheradmand, B., Ghaffari, A., **Gharehchopogh, F.S.**, & Masdari, M. (2022). Cluster-Based Routing Schema Using Harris Hawks Optimization in the Vehicular Ad Hoc Networks. *Wireless Communications and Mobile Computing*, 2022.
- 28 **Gharehchopogh, F.S.**, An improved tunicate swarm algorithm with best-random mutation strategy for global optimization problems. *Journal of Bionic Engineering*, 19(4), 1177-1202, 2022.
- 29 Shishavan, S. T., & **Gharehchopogh, F.S.**, An improved cuckoo search optimization algorithm with genetic algorithm for community detection in complex networks. *Multimedia Tools and Applications*, 81(18), 25205-25231. 2022.
- 30 Arasteh, B., Imanzadeh, P., Arasteh, K., **Gharehchopogh, F. S.**, & Zarei, B., A source-code aware method for software mutation testing using artificial bee colony algorithm. *Journal of Electronic Testing*, 38(3), 289-302, 2022.

- 31 Naseri, T. S., & **Gharehchopogh, F. S.**, A feature selection based on the farmland fertility algorithm for improved intrusion detection systems. *Journal of Network and Systems Management*, 30(3), 40, 2022.
- 32 **FS Gharehchopogh**, Advances in Tree Seed Algorithm: A comprehensive Survey, *Archives of Computational Methods in Engineering*, 2022.
- 33 H.K. Maragheh, **F.S Gharehchopogh**, K Majidzadeh, A.B. Sangar, A new hybrid based on long Short-term memory network with spotted Hyena optimization algorithm for multi-label text classification, *Mathematics* 10 (3), 488, 2022.
- 34 M Javanmard, **FS Gharehchopogh**, A Hybrid OBL based Firefly Algorithm with Symbiotic Organisms Search Algorithm for Solving Continuous Optimization Problems, *The Journal of Supercomputing*, 2021.
- 35 H Ebrahimi, K Majidzadeh, **FS Gharehchopogh**, Integration of deep learning model and feature selection for multi-label classification, *International Journal of Nonlinear Analysis and Applications* 13 (1), 2871-2883, 2022.
- 36 A Osmani, JB Mohasefi, **FS Gharehchopogh**, Sentiment Classification Using Two Effective Optimization Methods Derived From The Artificial Bee Colony Optimization And Imperialist Competitive Algorithm, *The Computer Journal* 63 (3), 2022.
- 37 Ayar, M., Isazadeh, A., **Gharehchopogh, F. S.**, & Seyedi, M. (2022). Chaotic-based divide-and-conquer feature selection method and its application in cardiac arrhythmia classification. *The Journal of Supercomputing*, 78(4), 5856-5882.
- 38 S Ghafari, **FS Gharehchopogh**, Advances in Spotted Hyena Optimizer: A comprehensive survey, *Archives of Computational Methods in Engineering*, 2021.
- 39 B Abdollahzadeh, **FS Gharehchopogh**, S Mirjalili, Artificial Gorilla Troops Optimizer: A New Nature-Inspired Metaheuristic Algorithm for Global Optimization Problems, *International Journal of Intelligent Systems*, 2021.
- 40 B Abdollahzadeh, **FS Gharehchopogh**, S Mirjalili, African Vultures Optimization Algorithm: A New Nature-Inspired Metaheuristic Algorithm for Global Optimization Problems, *Computers & Industrial Engineering*, 2021.
- 41 HRR Zaman, **FS Gharehchopogh**, An Improved Particle Swarm Optimization with Backtracking Search Optimization Algorithm for Solving Continuous Optimization Problems, *Engineering with Computers*, 2021.
- 42 K. Asghari, M Masdari, **FS Gharehchopogh**, R Saneifard, Multi-Swarm and Chaotic Whale-Particle Swarm Optimization Algorithm with a Selection Method based on Roulette Wheel, *Expert Systems*, 2021.
- 43 K Asghari, M Masdari, **FS Gharehchopogh**, R Saneifard, A Fixed Structure Learning Automata-based Optimization Algorithm for Structure Learning of Bayesian Networks, *Expert Systems*
- 44 K Asghari, M Masdari, **FS Gharehchopogh**, R Saneifard, A Chaotic and Hybrid Gray Wolf-Whale Algorithm for Solving Continuous Optimization Problems, *Progress in Artificial Intelligence*, 2021

- 45 **FS Gharehchopogh**, B Abdollahzadeh, An Efficient Harris Hawk Optimization Algorithm for Solving the Travelling Salesman Problem, Cluster Computing, 2021.
- 46 A Hosseinalipour, **FS Gharehchopogh**, M Masdari, A Khademi, Towards Text Psychology Analysis using Social Spider Optimization Algorithm, Concurrency Computation Practice and Experience, 2021.
- 47 **FS Gharehchopogh**, B Farnad, A Alizadeh, A Modified Farmland Fertility Algorithm for Solving Constrained Engineering Problems, Concurrency Computation Practice and Experience, 2021
- 48 **FS Gharehchopogh**, I Maleki, ZA Dizaji, Chaotic Vortex Search Algorithm: Metaheuristic Algorithm for Feature Selection, Evolutionary Intelligence, 2021.
- 49 B Abdollahzadeh, **FS Gharehchopogh**, A Multi-Objective Optimization Algorithm for Feature Selection Problems, Engineering with Computers, 2021
- 50 B Abdollahzadeh, **FS Gharehchopogh**, S Barshandeh, Discrete farmland fertility optimization algorithm with metropolis acceptance criterion for traveling salesman problems, International Journal of Intelligent Systems 36 (3), 1270-1303, 2021.
- 51 A Mohammadzadeh, M Masdari, **FS Gharehchopogh**, Energy and Cost-Aware Workflow scheduling in Cloud Computing Data Centers Using a Multi-Objective Optimization Algorithm, Journal of Network and Systems Management, 2021.
- 52 H Mohammadzadeh, **FS Gharehchopogh**, An Efficient Binary Chaotic Symbiotic Organisms Search Algorithm Approaches for Feature Selection Problems, The Journal of Supercomputing, 2021
- 53 H Mohammadzadeh, **FS Gharehchopogh**, A Novel Hybrid Whale Optimization Algorithm with Flower Pollination Algorithm for Feature Selection: Case Study Email Spam Detection, Computational Intelligence 31 (1), 176-209, 2021.
- 54 H Mohammadzadeh, **FS Gharehchopogh**, Feature Selection with Binary Symbiotic Organisms Search Algorithm for Email Spam Detection, International Journal of Information Technology & Decision Making, 2021.
- 55 A Hosseinalipour, **FS Gharehchopogh**, M Masdari, A Khademi, A Novel Binary Farmland Fertility Algorithm for Feature Selection in Analysis of the Text Psychology, Applied Intelligence, 2021.
- 56 H Mohammadzadeh, **FS Gharehchopogh**, A Multi-Agent System based for Solving High-dimensional Optimization Problems: A Case Study on Email Spam Detection, International Journal of Communication Systems, 2021.
- 57 F Salimzadeh, SR Heikalabad, **FS Gharehchopogh**, Design of a reversible structure for memory in quantum-dot cellular automata, International Journal of Circuit Theory and Applications, 2020.

- 58 M Abedi, **FS Gharehchopogh**, An Improved Opposition Based Learning Firefly Algorithm with Dragonfly Algorithm for Solving Continuous Optimization Problems, *Intelligent Data Analysis* 24 (2), 309-338, 2020.
- 59 MS Bonab, A Ghaffari, **FS Gharehchopogh**, P Alami, A Wrapper-based Feature Selection for improving performance of Intrusion Detection Systems, *International Journal of Communication Systems*, Volume33, Issue12, 2020.
- 60 LB Sorkhabi, **FS Gharehchopogh**, J Shahamfar. A Systematic Approach for Pre-processing Medical Big Data Toward Precision Medicine: Case Study of Heart Disease, *International Journal of Data Mining and Bioinformatics* 4 (2), 97-120. 2020
- 61 A Mohammadzadeh, M Masdari, **FS Gharehchopogh**, A Jafarian, Improved chaotic binary grey wolf optimization algorithm for workflow scheduling in green cloud computing, *Evolutionary Intelligence*, 1-29, (2020).
- 62 N Rahnama, **FS Gharehchopogh**, An improved artificial bee colony algorithm based on whale optimization algorithm for data clustering, *Multimedia Tools and Application*, 1-26, 2020.
- 63 A.OSMANI, J.B. MOHASEFI, **F.S.GHAREHCHOPOGH**, "Enriched Latent Dirichlet Allocation for Sentiment Analysis", *Expert Systems*, 2020.
- 64 **F.S. GHAREHCHOPOGH**, H. GHOLIZADEH," *A comprehensive survey: Whale Optimization Algorithm and its applications*", *Swarm and Evolutionary Computation*, Volume 48, August 2019, pp: 1-24, 2019.
- 65 **F.S.GHAREHCHOPOGH**, H.SHAYANFAR, & H. GHOLIZADEH, A comprehensive survey on symbiotic organisms search algorithms. *Artificial Intelligence Review*, 1-48, 2019.
- 66 H. SHAYANFAR, **F.S. GHAREHCHOPOGH**, "*Farmland Fertility: A New Metaheuristic Algorithm for Solving Continuous Optimization Problems*", *Applied Soft Computing*, Vol: 71, pp: 728-746, October 2018.

B. Journal Papers (Indexed in other sources) (This section was updated in 2022.2.30)

- 67 Narimani, Z., & **Soleimanian Gharehchopogh, F.** , Community Detection on Social Networks Using the Improved Harris Hawk Optimization Algorithm. *Journal of Advances in Computer Engineering and Technology*, 2022.
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C. National Conference Papers:

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Note: If you need any of my publications, please send an email to me.

Area of Interest Researches:

Artificial Intelligent (Machine Learning, Artificial Neural Networks, Intelligent and Multi Agent Systems, Heuristic and Metaheuristic),
Natural Language Processing, Data Mining (Applications, Algorithms), Software (Software Cost Estimation), Biomedical Applications

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