

Ali Fatahi

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[Google Scholar](#)

[Website](#)

Summary

- Highly motivated researcher with three years of experience in artificial intelligence and machine learning, resulting in six publications in peer-reviewed ISI journals, including several highly cited papers.
 - Proven history of cross-functional collaboration to reach continuous advancements in different fields of artificial intelligence, such as evolutionary computation, machine learning, deep learning, and healthcare.
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Education

M.Sc. in Software Engineering, Islamic Azad University, Najafabad Branch 2019 - 2022

Thesis title: An improved binary quantum-based avian navigation optimizer for feature selection from medical data. GPA: 16.73 (out of 20)

Member of Big Data Research Center, Najafabad Branch, Islamic Azad University

Completed 14 credits of Computer Engineering coursework as remedial during Master's program.

B.A. in English Translation, Shahrekord University 2014 - 2018

GPA: 15.89 (out of 20)

Research Interests

- Artificial Intelligence
 - Feature Selection
 - Deep Learning
 - Quantum Computing
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Publication

Journal Papers:

1. **Fatahi, A.** & Zamani.; END-Net: A Deep Neural Network for Detecting Multiple Neurological Disorders from Magnetic Resonance Images (Under review). Preprint available at: <https://doi.org/10.48550/arXiv.2606.29106>
2. **Fatahi, A.**, Nadimi-Shahraki, M.H. & Zamani, H. An Improved Binary Quantum-based Avian Navigation Optimizer Algorithm to Select Effective Feature Subset from Medical Data: A COVID-19 Case Study. J Bionic Eng (2023). <https://doi.org/10.1007/s42235-023-00433-y>
3. Nadimi-Shahraki, M.H.; **Fatahi, A.**; Zamani, H.; Mirjalili, S. Binary Approaches of Quantum-Based Avian Navigation Optimizer to Select Effective Features from High-Dimensional Medical Data. Mathematics 2022, 10, 2770. <https://doi.org/10.3390/math10152770>
4. Nadimi-Shahraki, M.H.; **Fatahi, A.**; Zamani, H.; Mirjalili, S.; Oliva, D. Hybridizing of Whale and Moth-Flame Optimization Algorithms to Solve Diverse Scales of Optimal Power Flow Problem. Electronics 2022, 11, 831. <https://doi.org/10.3390/electronics11050831>
5. Nadimi-Shahraki, M.H.; **Fatahi, A.**; Zamani, H.; Mirjalili, S.; Abualigah, L.; Abd Elaziz, M. Migration-based moth-flame optimization algorithm. Processes 2021, 9, 2276. <https://doi.org/10.3390/pr9122276>
6. Nadimi-Shahraki, M.H.; **Fatahi, A.**; Zamani, H.; Mirjalili, S.; Abualigah, L. An Improved Moth-Flame Optimization Algorithm with Adaptation Mechanism to Solve Numerical and Mechanical Engineering Problems. Entropy 2021, 23, 1637. <https://doi.org/10.3390/e23121637>
7. Nadimi-Shahraki, M.H.; Zamani, H.; **Fatahi, A.**; Mirjalili, S. MFO-SFR: An Enhanced Moth-Flame Optimization Algorithm Using an Effective Stagnation Finding and Replacing Strategy. Mathematics 2023, 11, 862. <https://doi.org/10.3390/math11040862>

Languages

- **Persian:** Native
- **English:** Full Proficiency
IELTS: Overall score: 7

Teaching Experience

- TA in Distributed Database, fall 2020, Taught the Distributed Consensus section
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Skills

- Python
 - [Blockchain Basics](#)
 - Algorithm Design
 - Medical Image Processing
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References

- Professor Mohammad H. Nadimi-Shahraki
1- Associate professor, Faculty of Computer Engineering
Islamic Azad University, Najafabad Branch, Najafabad, Iran
2- Adjunct Associate Professor of Artificial Intelligence
Torrens University Australia
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- Dr. Hoda Zamani
Senior researcher
Islamic Azad University, Najafabad Branch, Najafabad, Iran
Email: hoda_zamani@sco.iaun.ac.ir
- Professor Seyedali Mirjalili
Professor, Artificial Intelligence Research and Optimization
Torrens University Australia
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