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Position	Florida International University , Miami, FL, USA <i>Research Assistant</i> , Wind Engineering, Dept. of Civil Engineering	May 2022–Current
	Iran University of Science and Technology , Tehran, Iran <i>Research Assistant</i> , Dept. of Civil Engineering In the Field of Structure Optimization (Distinguished Prof. Ali Kaveh)	Sep 2016–Jan 2021
	Nakhjevani Academy , Tabriz, Iran <i>Scholastic Assessment Test (SAT) Tutor-Math</i>	Nov 2016–Nov 2021
	Nakhjevani Academy , Tabriz, Iran <i>Graduate Record Examination (GRE) Tutor-Math</i>	Nov 2016–Nov 2021
Education	Florida International University , Miami, FL, USA Ph.D. Wind Engineering (Prof. Amal Elawady) GPA: 4.00/4.00 (20/20)	May 2022–Current
	University of Tabriz , Tabriz, Iran M.Sc. Structural Engineering - Optimal Design of Steel Box Column Using Charged System Search (CSS) Algorithm (Prof. Siamak Talatahri) GPA: 3.93/4.00 (19.69/20)	Sep 2014–Jul 2016
	University of Tabriz , Tabriz, Iran B.Sc. Civil Engineering GPA: 3.23/4.00 (16.33/20)	Sep 2010– Jul 2014
Awards	<ul style="list-style-type: none">• 1st rank among students at Iran University of Science and Technology, Department of Civil Engineering• 1st rank among students at Iran University of Science and Technology, Department of Civil Engineering• Obtaining an award for Iran's National Elites Foundation• 1st rank among researchers at Iran University of Science and Technology, Department of Civil Engineering• Obtaining awards for Iran's National Elites Foundation• Province Educational Gold Medal: Awarded by the University of Tabriz, Master of Science (M.Sc.)• M.Sc. thesis marked, 20 out of 20• 1st rank among students at University of Tabriz Master of Science (M.Sc.)• Among 1% of approximately 30,000 Participants Who Passed Iranian Nationwide Universities' Master Entrance Exam in the Field of Civil Engineering• 1230th rank among more than 310,000 participants in Iranian National University Entrance Exam in the whole country	2020 2021 2019 2019 2018 2017 2016 2016 2010 2010

- 1st rank student for four consecutive years of high-school and pre-university curriculum

2010–2016

Interests

- Structural Engineering
- Materials Engineering
- Optimal Analysis of Structures
- Machine Learning
- Evolutionary Algorithms
- Introduction, Improvement, Hybridization and Applications of DS Methods
- Steel Structures
- Data Science (DS)

Publications – Papers

- Abdollahzadeh, B., Soleimani, G. F., **Khodadadi, N.** and Mirjalili, S., (2022), Mountain Gazelle Optimizer: A New Nature-inspired Metaheuristic Algorithm for Global Optimization Problems, *Advances in Engineering Software*.(IF: 4.141 [-link](#))
- Khafaga, D. S., Karim, F. K., Abdelhamid, A. A., El-Kenawy, E. M., Alkahtani, H. K., **Khodadadi, N.**, Hadwan, M., Ibrahim, A.,(2022), Voting Classifier and Metaheuristic Optimization for Network Intrusion Detection, *Computers, Materials and Continua*.(IF: 4.15 [-link](#))
- Khodadadi, N.**, Abualigah, L., El-Kenawy, E. M., Snasel, V., and Mirjalili, S., (2022), An Archive-based Multi-Objective Arithmetic Optimization Algorithm for Solving Industrial Engineering Problems, *IEEE Access*.(IF: 3.367 [-link](#))
- Nouhi, B., **Khodadadi, N.**, Azizi, M., Talatahari, S., and Gandomi, A. H., (2022), Multi-Objective Material Generation Algorithm (MOMGA) for Optimization Purposes, *IEEE Access*.(IF: 3.367 [-link](#))
- El-Kenawy, M. E., **Khodadadi, N.**, Khoshnaw, A., Mirjalili, S., Alhussan, A. A., Khafaga, D. S., Ibrahim, A., Abdelhamid, A. A., (2022), Advanced Dipper-Throated Meta-Heuristic Optimization Algorithm for Digital Image Watermarking, *Applied Sciences*.(IF: 2.67 [-link](#))
- Abdelhamid, A. A., El-Kenawy, M. E., **Khodadadi, N.**, Mirjalili, S., Khafaga, D. S., Alharbi, A. H., Ibrahim, A., M Eid, M., Saber, M., (2022), Classification of Monkeypox Images Based on Transfer Learning and the Al-Biruni Earth Radius Optimization Algorithm, *Mathematics*.(IF: 2.84 [-link](#))
- M Eid, M., El-Kenawy, M. E., **Khodadadi, N.**, Mirjalili, S., Khodadadi, E., Abotaleb, M., Alharbi, A. H., Abdelhamid, A. A., Ibrahim, A., Amer, M. G., Kadi, A., Khafaga, D. S., (2022), Meta-Heuristic Optimization of LSTM-Based Deep Network for Boosting the Prediction of Monkeypox Cases, *Mathematics*.(IF: 2.84 [-link](#))
- A Alsayadi, H.,**Khodadadi, N.**, and Kumar, S., (2022), Improving the Regression of Communities and Crime Using Ensemble of Machine Learning Models, *Journal of Artificial Intelligence and Metaheuristics*.([-link](#))
- Khodadadi, N.**, Soleimani, G. F., and Mirjalili, S. (2022), MOAVOA: a new multi-objective artificial vultures optimization algorithm, *Neural Computing and Applications*.(IF: 5.606 [-link](#))
- El-Kenawy, E. M., Mirjalili, S., Abdelhamid A. A., Ibrahim, A., **Khodadadi, N.**, Eid, M. M (2022), Meta-Heuristic Optimization and Keystroke Dynamics for Authentication of Smartphone Users, *Mathematics*(IF: 2.59 [-link](#))
- Zhao, W., Zhang, Z., Mirjalili, S., Wang, L., **Khodadadi, N.**, Mirjalili, S. M., (2022), An effective multi-objective artificial hummingbird algorithm with dynamic elimination-based crowding distance for solving engineering design problems, *Computer Methods in Applied Mechanics and Engineering*.(IF: 6.756 [-link](#))

12. Azizi, M. ,Talatahari, S., **Khodadadi, N.**, and Sareh, P, (2022), Multi-Objective Atomic Orbital Search (MOAOS) for Global and Engineering Design Optimization, *IEEE Access*.(IF: 3.367 [-link](#))
11. **Khodadadi, N.**,Abualigah, L., and Mirjalili, S, (2022), Multi-objective Stochastic Paint Optimizer (MOSPO), *Neural Computing and Applications*.(IF: 5.606 [-link](#))
10. **Khodadadi, N.**, Talatahari, S. , and Dadras Eslamlou, A., (2022), MOTEO: a novel multi-objective thermal exchange optimization algorithm for engineering problems, *Soft Computing*.(IF: 6.725 [-link](#))
9. **Khodadadi, N.**, ,Snasel, V., and Mirjalili, S, (2022) Dynamic Arithmetic Optimization Algorithm for Truss Optimization Under Natural Frequency Constraints, *IEEE Access*.(IF: 3.367 [-link](#))
8. **Khodadadi, N.**, Mirjalili, S, (2022), Truss Optimization with Natural Frequency Constraints Using Generalized Normal Distribution Optimization, *Applied Intelligence*.(IF: 1.58 [-link](#))
7. **Khodadadi, N.**, Azizi, M. ,Talatahari, S., and Sareh, P, (2021), Multi-Objective Crystal Structure Algorithm (MOCryStAl): Introduction and Performance Evaluation, *IEEE Access*(IF: 3.367 [-link](#))
6. Kaveh, A., **Khodadadi, N.**, and Talatahari, S., (2021), A Comparative Study for the Optimal Design of Steel Structures Using CSS and ACSS Algorithms, *International Journal of Optimization in Civil Engineering*.(IF: 0.9 [-link](#))
5. Kaveh, A., Talatahari, S. and **Khodadadi, N.**, (2020), Stochastic Paint Optimizer: Theory and Application in Civil Engineering, *Engineering with Computers*. (IF: 5.030-[link](#))
4. Kaveh, A., **Khodadadi, N.**, Farahamand Azar, B. and Talatahari, S., (2020), Optimal design of large-scale frames with an advanced charged system search algorithm using box-shaped sections, *Engineering with Computers*. (IF: 5.030 [-link](#))
3. Kaveh, A., Dadras Eslamlou, A. and **Khodadadi, N.**, (2020), Dynamic Water Strider Algorithm for Optimal Design of Skeletal Structures, *Periodica Polytechnica Civil Engineering*.(IF: 1.140-[link](#))
2. Kaveh, A., Talatahari, S. and **Khodadadi, N.**, (2019), The Hybrid Invasive Weed Optimization-Shuffled Frog-leaping Algorithm Applied to Optimal Design of Frame Structures, *Periodica Polytechnica Civil Engineering*. (IF: 1.140-[link](#))
1. Kaveh, A., Talatahari, S. and **Khodadadi, N.**, (2019), Hybrid Invasive Weed Optimization-Shuffled Frog-Leaping Algorithm for Optimal Design of Truss Structures, *Iranian Journal of Science and Technology, Transactions of Civil Engineering*.(IF: 0.975-[link](#))

Publications– Book Chapters

11. **Khodadadi, N.**,Mirjalili, S. M.,,Zhao, W., Zhang, Z., Wang, L. and Mirjalili, S., (2023) ”Multi-Objective Artificial Hummingbird Algorithm” Springer. Book Chapter: Advances in Swarm Intelligence.([link](#))
10. Mirjalili, S.M, Mirjalili, S.Z,**Khodadadi, N.**, Snasel, V., and Mirjalili, S., (2023) ”Grey Wolf Optimizer, Whale Optimization Algorithm, and Moth Flame Optimization for Optimizing Photonics Crystals ” Springer. Book Chapter: Advances in Swarm Intelligence.([link](#))
9. Abdollahzadeh, B., Soleimanian, G. F,**Khodadadi, N.** and Mirjalili, S., (2023) ”A Hybrid African Vulture Optimization Algorithm and Harmony Search: Algorithm and Application in Clustering” Springer. Book Chapter: Advances in Swarm Intelligence.([link](#))
8. **Khodadadi, N.**, Mirjalili, S.M, Mirjalili, S.Z, and Mirjalili, S., (2022) ”Chaotic Stochastic Paint Optimizer (CSPO) ” Springer. Book Chapter: Proceedings of 7th International Conference on Harmony Search, Soft Computing and Applications.([link](#))

7. **Khodadadi, N.**, Soleimanian, G. F, Abdollahzadeh, B., and Mirjalili, S., (2022) "AMHS: Archive-Based Multi-objective Harmony Search Algorithm " Springer. Book Chapter: Proceedings of 7th International Conference on Harmony Search, Soft Computing and Applications.[\(link\)](#)
6. Mirjalili, S.Z, **Khodadadi, N.**, Sajeev, S., Saha, R., Mirjalili, S.M, and Mirjalili, S., (2022) "Evolutionary Population Dynamic Mechanisms for the Harmony Search Algorithm " Springer. Book Chapter: Proceedings of 7th International Conference on Harmony Search, Soft Computing and Applications.[\(link\)](#)
5. **Khodadadi, N.**, Mirjalili, S.M, and Mirjalili, S., (2022) "Multi-objective Moth-Flame Optimization Algorithm for Engineering Problems " CRC Press. Book Chapter: Handbook of Moth-Flame Optimization Algorithm: Variants, Hybrids, Improvements, and Applications.[\(link\)](#)
4. **Khodadadi, N.**, Mirjalili, S.M, and Mirjalili, S., (2022) "Optimal Design of Truss Structures with Continuous Variable Using Moth-Flame Optimization " CRC Press. Book Chapter: Handbook of Moth-Flame Optimization Algorithm: Variants, Hybrids, Improvements, and Applications.[\(link\)](#)
3. Mirjalili, S.M, Davar, S., **Khodadadi, N.**, and Mirjalili, S., (2022) "Design Optimization of Photonic Crystal Filter Using Moth-Flame Optimization Algorithm " CRC Press. Book Chapter: Handbook of Moth-Flame Optimization Algorithm: Variants, Hybrids, Improvements, and Applications.[\(link\)](#)
2. Al-Tashi, Q., Mirjalili, S., Wu, J., Abdulkadir, S.J, Shami, T.M, **Khodadadi, N.**, and Alqushaibi, A., (2022) "Moth-Flame Optimization Algorithm for Feature Selection: A Review and Future Trends " CRC Press. Book Chapter: Handbook of Moth-Flame Optimization Algorithm: Variants, Hybrids, Improvements, and Applications.[\(link\)](#)
1. Abualigah, A., Abd Elaziz, M., **Khodadadi, N.**, Forestiero, A., Jia, H., and Gandomi, A. H., (2022) "Aquila Optimizer Based PSO Swarm Intelligence for IoT Task Scheduling Application in Cloud Computing" Springer, Cham. Book Chapter: Integrating Meta-Heuristics and Machine Learning for Real-World Optimization Problems.[\(link\)](#)

Publications– Book

1. **Khodadadi, N.** and Broujerdian, V., (2020), *Introduction to Fracture Mechanic (In Persian)*, Iran University of Science and Technology Publications, Vol. 1, ISBN:978-964-454-502-3, Tehran, Iran.

Publications – Conferences

3. Veladi, H. and **Khodadadi, N.**, (2020), A review of evaluation in seismic performance of wood building structures with numerical and experimental methods, *2nd International Congress On Engineering, Technology and Innovation*, Darmstadt University, Germany.
2. Veladi, H. and **Khodadadi, N.**, (2020), An experimental study on assessing behavior of quay walls under the action of irregular waves using Artificial Neural Network, *2nd. International Congress on science & Engineering*, Paris, France.
1. **Khodadadi, N.**, Pourabdollah, O. and Ali Ordoukhani, A., (2018), Lightweight steel structures and its advantages over traditional manufacturing methods, *Second National Conference on Structural Engineering of Iran*, Tehran, Iran.

Journals Editor

- **Editor Board:** Journal of Artificial Intelligence and Metaheuristics
- **Guest Editor:** Intelligent Automation & Soft Computing (Issues: Optimization Algorithm for Intelligent Computing Application)
- **Guest Editor:** Computers, Materials & Continua (Issues: Optimization for Artificial Intelligence Application)

Journals Reviewer	<ul style="list-style-type: none"> • Scientific Reports • PLOS ONE • IEEE Access • Neurocomputing • Applied Intelligence (APIN) • Soft Computing • Computational Intelligence and Neuroscience • CMC-Computers, Materials and Continua • Decision Analytics Journal • Intelligent Automation & Soft Computing • Frontiers in Energy Research • Computer Systems Science and Engineering • Artificial Intelligence Review 	
Patent	1. Kiddy Searcher Robot Raily	2018
Teaching experience	University of Tabriz , Tabriz, Iran Course: Engineering mathematics University of Tabriz , Tabriz, Iran Course: Statics	2014–2015 2011–2014
Voluntary Activities	Teaching physics and mathematics to high school poor students as a charity Transplant Organ Procurement Unit Member Blood Donation Group Member Disaster Engineering Assistance Team (Varzeghan & Kermanshah Earthquakes)	
Sport Awards	1st rank of Province Swimming Champion 1st rank of Province Soccer Champion 1st rank of Province Futsal Champion	2019 2018 2017
Languages	<ul style="list-style-type: none"> • English: Proficient & IELTS Score: 6.5 (L=7.5, R=6.5 S=6.5, W=6) • Kurdish: Native • Persian: as Native • Azari: as Native • Turkish: Proficient 	
skills	<u>Programming:</u> MATLAB, FORTRAN, GIT, PYTHON, LATEX <u>Engineering Softwares:</u> OpenSees, Etabs, Sap, Safe, AutoCad <u>Operating Systems:</u> MacOS, IOS, Windows, Linux <u>Statistical tools:</u> R, SPSS, Minitab <u>Sports:</u> Having a Certified Lifeguard, professional Soccer player, professional swimmer <u>Music Instrument:</u> Playing Iranian Santoor	