

CV

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Position **University of California**, Berkeley, CA, USA Feb 2025–Current
In the Field of Earthquake Engineering with Prof. [Khalid M Mosalam](#)
Post-Doctoral, Pacific Earthquake Engineering Research (PEER) Center

University of Miami, Coral Gable, FL, USA Jan 2023–May 2025
In the Field of Structure with Prof. [Antonio Nanni](#)
Research Assistant, Structural Engineering, Dept. of Civil and Arch Engineering

Florida International University, Miami, FL, USA May 2022–Dec 2022
Research Assistant, Wind Engineering, Dept. of Civil Engineering

Iran University of Science and Technology, Tehran, Iran Sep 2016–Jan 2021
Research Assistant, Dept. of Civil Engineering
In the Field of Structure Optimization with Prof. [Ali Kaveh](#)

Nakhjevani Academy, Tabriz, Iran Nov 2016–Nov 2021
Teaching: Scholastic Assessment Test (SAT) Tutor-Math

Nakhjevani: Academy, Tabriz, Iran Nov 2016–Nov 2021
Teaching: Graduate Record Examination (GRE) Tutor-Math

Education **University of California**, Berkeley, CA, USA Feb 2025–Current
Post-Doc Earthquake Engineering with Prof. [Khalid M Mosalam](#)

University of Miami, Coral Gable, FL, USA Jan 2023–May 2025
Ph.D. Structural Engineering - Explainable Artificial Intelligence for Concrete
Technologies: Predictive Models and Applications with Prof. [Antonio Nanni](#)

Iran University of Science and Technology, Tehran, Iran Sep 2016–Jan 2021
Ph.D Structural Engineering - Optimization of 3D Frames with New
Approach Using Different Shaped Sections; A Comparative Study with Prof. [Ali Kaveh](#)

University of Tabriz, Tabriz, Iran Sep 2014–Jul 2016
M.Sc. Structural Engineering - Optimal Design of Steel Box Column
Using Charged System Search (CSS) Algorithm with Prof. [Siamak Talatahri](#)

University of Tabriz, Tabriz, Iran Sep 2010– Jul 2014
B.Sc. Civil Engineering

Awards

- Structural Engineering Institute (SEI) Futures Young Professional 2025
- ACI Fellowship foundation 2024
- John Ries Scholarship (Expanded Shale, Clay, and Slate Institute) 2024
- Travel Stipend, University of Miami 2024
- ACI Emerging Leaders Conference for Young Professionals 2024

- Student of year at 9th Annual Toppel Awards at University of Miami 2024
- Structural Engineering Institute (SEI) Futures Fund Student Scholarship ASCE 2024
- AELS gradute student, University of Miami 2024
- Awarded Rothberg University of Miami COE Pitch Competition 2024
- Wulkan Family American Public Transportation Foundation Endowed Scholarship 2023
- Awarded a Non-Academic Research Internships for Graduate Students (INTERN) 2023
- Academic Excellence Awardees, University of Miami 2023
- Obtaining an award for Iran’s National Elites Foundation 2022
- 1st rank among students at Iran University of Science and Technology, Department of Civil Engineering 2021
- Obtaining an award for Iran’s National Elites Foundation 2021
- 1st rank among students at Iran University of Science and Technology, Department of Civil Engineering 2020
- Obtaining an award for Iran’s National Elites Foundation 2020
- Obtaining an award for Iran’s National Elites Foundation 2019
- 1st rank among researchers at Iran University of Science and Technology, Department of Civil Engineering 2019
- Obtaining awards for Iran’s National Elites Foundation 2018
- Province Educational Gold Medal: Awarded by the University of Tabriz, Master of Science (M.Sc.) 2017
- Obtaining an award for Iran’s National Elites Foundation 2017
- Obtaining an award for Iran’s National Elites Foundation 2016
- M.Sc. thesis marked, 20 out of 20 2016
- 1st rank among students at University of Tabriz Master of Science (M.Sc.) 2016
- Among 1% of approximately 30,000 Participants Who Passed Iranian Nationwide Universities’ Master Entrance Exam in the Field of Civil Engineering 2010
- 1230th rank among more than 310,000 participants in Iranian National University Entrance Exam in the whole country 2010
- 1st rank student for four consecutive years of high-school and pre-university curriculum 2010–2016

Voluntary Activities

- E-Board of ACI’s Task Group on Artificial Intelligence
- ACI 135 Committee Voting Member- Machine Learning-Informed Construction and Design
- E-Board of Graduate Student Association (GSA) at University of Miami
- ACI 243 Committee Member-Sea Water Concrete
- ACI 130-00 Committee Member- Sustainability of Concrete
- ACI 440-00 Committee Member- Fiber Reinforced Polymer Reinforcement
- ACI 440-0G Committee Member- FRP Student
- 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)

Publications – Papers

84. Zhao, W., Zhang, Z., **Khodadadi, N.**, & Wang, L. (2025). A deep learning model coupled with metaheuristic optimization for urban rainfall prediction. *Journal of Hydrology*.(IF: 5.9 [-link](#)).
83. Abdollahzadeh, B., Javadi, H., Torağay, O., Epicoco, N., & **Khodadadi, N.** (2025). The green marine waste collector routing optimization with puma selectison-based neighborhood search algorithm. *Cluster Computing*.(IF: 3.6 [-link](#)).

82. Yu, X., Hu, T., **Khodadadi, N.**, Liu, Q., & Nanni, A. (2025). Modeling chloride ion diffusion in recycled aggregate concrete: A fuzzy neural network approach integrating material and environmental factors. *Structures*.(IF: 3.9 [-link](#)).
81. Wu, X., Hu, T., **Khodadadi, N.**, & Nanni, A. (2025). Prediction on Quasi-static Compression Deformation Modes of Circular Tubes based on Machine Learning. *International Journal of Mechanical Sciences*.(IF: 7.1 [-link](#)).
80. Amiri, M.H., Hashjin, N.M., Najafabadi, M.K., Beheshti, A. and **Khodadadi, N.**, (2025). An innovative data-driven AI approach for detecting and isolating faults in gas turbines at power plants. *Expert Systems with Applications*.(IF: 7.5 [-link](#)).
79. **Khodadadi, N.**, Ehteram, M., Karami, H., Nadimi-Shahraki, M.H., Abualigah, L. and Mirjalili, S., (2025). Leader selection based Multi-Objective Flow Direction Algorithm (MOFDA): A novel approach for engineering design problems. *Results in Engineering.Cluster Computing*.(IF: 6 [-link](#)).
78. Mozhdehi, A.T., **Khodadadi, N.**, Aboutalebi, M., El-kenawy, E.S.M., Hussien, A.G., Zhao, W., Nadimi-Shahraki, M.H. and Mirjalili10, S., (2025). Divine Religions Algorithm: a novel social-inspired metaheuristic algorithm for engineering and continuous optimization problems. *Cluster Computing*.(IF: 3.6 [-link](#)).
77. Panagant, N., Mahajan, S., Sait, S. M., Yıldız, B. S., Yıldız, A. R., **Khodadadi, N.**, & Mehta, P. (2025). Multi-objective optimization of truss structures using the enhanced Lichtenberg algorithm. *Materials Testing*.(IF: 2.4 [-link](#)).
76. Zheng, S., Hu, T., **Khodadadi, N.**, & Nanni, A. (2024). Explainable prediction model for punching shear strength of FRP-RC slabs based on kernel density estimation and XGBoost. *Scientific reports*.(IF: 3.8 [-link](#)).
75. Hu, T., Zhang, H., **Khodadadi, N.**, Taffese, W. Z., & Nanni, A. (2024). Enhancing bond strength prediction at UHPC-NC interface: A data-driven approach with augmentation and explainability. *Construction and Building Materials*.(IF: 7.4 [-link](#)).
74. El-Kenawy, E. S. M., **Khodadadi, N.**, Ibrahim, A., Eid, M. M., Osman, A. M., & Elshewey, A. M. (2024). An optimized model for Liver disease classification based on BPSO Using Machine learning models. *Mesopotamian Journal of Computer Science*.(IF: - [-link](#))
73. Nadimi-Shahraki, M. H., Taghian, S., Javaheri, D., Sadiq, A. S., **Khodadadi, N.**, & Mirjalili, S. (2024). MTV-SCA: multi-trial vector-based sine cosine algorithm. *Cluster Computing*.(IF: 3.6 [-link](#))
72. **Khodadadi, N.**, Towfek, S.K., Zaki, A.M., Alharbi, A.H., Khodadadi, E., Khafaga, D.S., Abualigah, L., Ibrahim, A., Abdelhamid, A.A. and Eid, M.M., 2024. Predicting normalized difference vegetation index using a deep attention network with bidirectional GRU: a hybrid parametric optimization approach. *International Journal of Data Science and Analytics*. (IF: 3.4 [-link](#))
71. El-Kenawy, E.S.M., Rizk, F.H., Zaki, A.M., Elshabrawy, M., Ibrahim, A., Abdelhamid, A.A., **Khodadadi, N.**, ALmetwally, E.M. and Eid, M.M., (2024). Nioa: A novel metaheuristic algorithm modeled on the stealth and precision of Japanese ninjas. *Journal of Artificial Intelligence in Engineering Practice*.(IF: - [-link](#))
70. Özbay, E., Özbay, F. A., **Khodadadi, N.**, Gharehchopogh, F. S., & Mirjalili, S. (2024). Multifeature fusion method with metaheuristic optimization for automated voice pathology detection. *Journal of Voice*.
69. Karim, F.K., Khafaga, D.S., El-kenawy, E.S.M., Eid, M.M., Ibrahim, A., Abualigah, L., **Khodadadi, N.** and Abdelhamid, A.A., (2024). Optimized LSTM for Accurate Smart Grid Stability Prediction Using a Novel Optimization Algorithm. *Frontiers in Energy Research.IEEE*.(IF: 2.5 [-link](#))
68. Sherif, K., Rizk, F.H., Zaki, A.M., Eid, M.M., **Khodadadi, N.**, Ibrahim, A., Abdelhamid, A.A., Abualigah, L. and El-Kenawy, E.S.M., (2024), July. Revolutionizing

- Oil Spill Detection: A Machine Learning Approach for Satellite Image Classification. International Telecommunications Conference (ITC-Egypt). *IEEE*.(IF: 3.4 [-link](#))
67. Abdelmalak, M. E. S., **Khodadadi, N.**, Zaki, A. M., Eid, M. M., Rizk, F. H., Ibrahim, A., Abualigah, L., & El-kenawy, E. S. M. (2024). Pothole Detection in Asphalt Roads: A Comprehensive Approach for Enhanced Road Maintenance and Safety with AlexNet Model. International Telecommunications Conference (ITC-Egypt). *IEEE.Potato Research*.(IF: 3.4 [-link](#))
 66. El-Kenawy, E. S. M., Alhussan, A. A., **Khodadadi, N.**, Mirjalili, S., & Eid, M. M. (2024). Predicting potato crop yield with machine learning and deep learning for sustainable agriculture. *Potato Research*, 1-34.(IF: 2.5 [-link](#)).
 65. El-Kenawy, E.S.M., Rizk, F.H., Zaki, A.M., Elshabrawy, M., Ibrahim, A., Abdelhamid, A.A., **Khodadadi, N.**, ALmetwally, E.M. and Eid, M.M., (2024). iHov optimization algorithm: a human-inspired metaheuristic approach for complex problem solving and feature selection. *Journal of Artificial Intelligence in Engineering Practice*.(IF: - [-link](#))
 64. **Khodadadi, N.**, Roghani, H., DeCaso, F., El-kenawy, E. M, Yesha, Y., Nanni, N., (2024), Data-driven PSO-CatBoost machine learning model to predict the compressive strength of CFRP- confined circular Concrete Specimens, *Thin-Walled Structures*.(IF: 6.4 [-link](#))
 63. Golafshani, E., **Khodadadi, N.**, Ngo, T., Nanni, A., Behnood, A., (2024), Modelling the compressive strength of geopolymer recycled aggregate concrete using ensemble machine learning, *Advances in Engineering Software*.(IF: 4.8 [-link](#))
 62. **Khodadadi, N.**, Roghani, H., Harati, E., Mirdarsoltany, M., De Caso, F., Nanni, A. (2024), Fiber-reinforced polymer (FRP) in concrete: A comprehensive survey, *Construction and Building Materials*.(IF: 7.4 [-link](#))
 61. **Khodadadi, N.**, Khodadadi, E., Abdollahzadeh, B., El-Kenawy, E. S. M., Mardanpour, P., Zhao, W., Mirjalili, S. (2024). Multi-objective generalized normal distribution optimization: a novel algorithm for multi-objective problems. *Cluster Computing*(IF: 3.6 [-link](#))
 60. Zhao,W, Wang, L, Zhang, Z, Fan, H, Zhang, J, Mirjalili, S. A, **Khodadadi, N.**, Cao, Q, (2024), Electric Eel Foraging Optimization: A new bio-inspired optimizer for engineering applications, *Expert Systems with Applications*.(IF: 8.5 [-link](#))
 59. El-kenawy, E. M, **Khodadadi, N.**, Mirjalili, S. A, Abdelhamid, A. A, M Eid, M. M, Ibrahim, A, (2024), Greylag Goose Optimization: Nature-inspired optimization algorithm, *Expert Systems with Applications*.(IF: 8.5 [-link](#))
 58. Abdollahzadeh, B,**Khodadadi, N.**, Barshandeh, S., Pavel Trojovský, P.,Gharehchopogh, F. S., EM El-kenawy, E. S., Abualigah, L., Mirjalili, S. A., (2024),Puma optimizer (PO): a novel metaheuristic optimization algorithm and its application in machine learning, *Cluster Computing*.(IF: 4.4 [-link](#))
 57. Alharbi, A.H., Khafaga, D.S., Zaki, A.M., El-Kenawy, E.S.M., Ibrahim, A., Abdelhamid, A.A., Eid, M.M., El-Said, M., **Khodadadi, N.**, Abualigah, L. and Saeed, M.A., (2024). Forecasting of energy efficiency in buildings using multilayer perceptron regressor with waterwheel plant algorithm hyperparameter. *Frontiers in Energy Research*(IF:2.6 [-link](#))
 56. Amiri, M. H., Mehrabi Hashjin, N., Montazeri, M., Mirjalili, S., **Khodadadi, N.** (2024). Hippopotamus optimization algorithm: a novel nature-inspired optimization algorithm. *Scientific Reports*(IF:4.6 [-link](#))
 55. Alharbi, AH., Khafaga, D., El-kenawy, ES., Eid M., Ibrahim, A., Abualigah, L., **Khodadadi, N.**, Abdelhamid, A.(2024). Optimizing Electric Vehicle Paths To Charging Stations Using Parallel Greylag Goose Algorithm and Restricted Boltzmann Machines. *Frontiers in Energy Research*(IF:2.6 [-link](#))

54. Mehrabi Hashjin, N., Amiri, M. H., Mohammadzadeh, A., Mirjalili, S., **Khodadadi, N.** (2024). Novel hybrid classifier based on fuzzy type-III decision maker and ensemble deep learning model and improved chaos game optimization. *Cluster Computing*(IF: 3.6 [-link](#))
53. Towfek, S. K., **Khodadadi, N.** , Abualigah, L., Rizk, F. H. (2024). AI in Higher Education: Insights from Student Surveys and Predictive Analytics using PSO-Guided WOA and Linear Regression. *Journal of Artificial Intelligence in Engineering Practice*([-link](#))
52. Abualigah L, Oliva D, Jia H, Gul F, **Khodadadi, N.**, Hussien AG, Shinwan MA, Ezugwu AE, Abuhaija B, Zitar RA., (2024),Improved prairie dog optimization algorithm by dwarf mongoose optimization algorithm for optimization problems, *Multi-media Tools and Applications*.(IF: 3 [-link](#))
51. El-Kenawy, E. S. M., Ibrahim, A., Abdelhamid, A. A., **Khodadadi, N.**, Abualigah, L., Eid, M. M. (2024),Predicting Sleep Disorders: Leveraging Sleep Health and Lifestyle Data with Dipper Throated Optimization Algorithm for Feature Selection and Logistic Regression for Classification, *Computational Journal of Mathematical and Statistical Sciences*.([-link](#))
50. Sameh, B., **Khodadadi, N.**, Eid, M. M., Towfek, S. K.(2024), Advancements and Future Directions in Machine Learning for Medical Diagnostics: A Comprehensive Review, *ournal of Journal of Artificial Intelligence and Metaheuristics*.([-link](#))
49. Zaki, M. A.,**Khodadadi, N.**, Towfek, S. K.,(2024), Predictive Analytics and Machine Learning in Direct Marketing for Anticipating Bank Term Deposit Subscriptions, *American Journal of Business and Operations Research*.(IF: - [-link](#))
48. Alzubi, S., Abualigah, L., Sharaf, M., Daoud, M., **Khodadadi, N.**, Jia, H., (2023), Synergistic Swarm Optimization Algorithm, *Computer Modeling in Engineering and Sciences*.(IF: 2.4 [-link](#))
47. Mirdarsoltany, M, Roghani, H, Tale Masoule, M. S, **Khodadadi, N.**, Ghahremaninezhad, A, Nanni, N, (2023), Evaluating GFRP bars under axial compression and quantifying load-damage correlation, *Construction and Building Materials*.(IF: 7.4 [-link](#))
46. Afrasyabi, P, Mesgari, M. S, El-sayed, M, Kaveh, M, Ibrahim, A, **Khodadadi, N.**, (2023), A crossover-based multi-objective discrete particle swarm optimization model for solving multi-modal routing problems, *Decision Analytics Journal*.(IF: - [-link](#))
45. Tarek, Z, Shams, M. Y, Towfek, S. K, Alkahtani, H. K, Ibrahim, A, Abdelhamid, A. A, Eid, M. M,**Khodadadi, N.**, Abualigah, L, Khafaga, D. S, Elshewey, A. M, (2023), An Optimized Model Based on Deep Learning and Gated Recurrent Unit for COVID-19 Death Prediction, *Biomimetics*.(IF: 4.5 [-link](#))
44. Elshewey, A. M, Shams, M. Y, Tawfeek, S. M, Alharbi, A. H, Ibrahim, A, Abdelhamid, A. A, Eid, M. M, **Khodadadi, N.**, Abualigah, L, Khafaga, A. S, Tarek, Z, (2023),Optimizing HCV Disease Prediction in Egypt: The hyOPTGB Framework, *Diagnostics*.(IF: 3.6 [-link](#))
43. Harati Khalilabad, E, Emparanza, A. R, De Caso, F, Roghani, H, **Khodadadi, N.**, Nanni, N. (2023),Characterization Specifications for FRP Pultruded Materials: From Constituents to Pultruded Profiles, *Fibers*.(IF: [-link](#))
42. **Khodadadi, N.**, Khodadadi, E, Al-Tashi, Q, El-Kenawy, E. M, Abualigah, L, Abdulkadir, S. J, Alqushaibi, A, Mirjalili, S. A(2023),BAOA: binary arithmetic optimization algorithm with K-nearest neighbor classifier for feature selection, *IEEE Access*.(IF: 3.9 [-link](#))
41. **Khodadadi, N.**, Khodadadi, E, Al-Tashi, Q, El-Kenawy, E. M, Abualigah, L, Abdulkadir, S. J, Alqushaibi, A, Mirjalili, S. A(2023),BAOA: binary arithmetic optimization algorithm with K-nearest neighbor classifier for feature selection, *Journal of Artificial Intelligence and Metaheuristics* (JAIM).

40. **Khodadadi, N.**, El-Kenawy, E.S.M., De Caso, F., Alharbi, A.H., Khafaga, D.S. and Nanni, A., (2023), The Mountain Gazelle Optimizer for truss structures optimization, *Applied Computing and Intelligence*.(IF: - [-link](#))
39. **Khodadadi, N.**, Harati, E., De Caso, F., Nanni, A., (2023), "Optimizing Truss Structures Using Composite Materials under Natural Frequency Constraints with a New Hybrid Algorithm Based on Cuckoo Search and Stochastic Paint Optimizer (CSSPO), *Buildings*.(IF: 4.26 [-link](#))
38. **Khodadadi, N.**, Çiftçioğlu, A. Ö, Mirjalili, S., Nanni, A., (2023), A comparison performance analysis of eight meta-heuristic algorithms for optimal design of truss structures with static constraints, *Decision Analytics Journal*.(IF: - [-link](#))
37. Zhao, W., Wang, L., Zhang, Z., Mirjalili, S., Khodadadi, N. and Ge, Q., (2023), Quadratic Interpolation Optimization (QIO): A new optimization algorithm based on generalized quadratic interpolation and its applications to real-world engineering problems, *Computer Methods in Applied Mechanics and Engineering*.(IF: 7.2 [-link](#))
36. Abualigah, L., Oliva, D., Jia, H., Gul, F., **Khodadadi, N.**, Hussien, A.G., Shinwan, M.A., Ezugwu, A.E., Abuhaija, B. and Zitar, R.A., (2023), Improved prairie dog optimization algorithm by dwarf mongoose optimization algorithm for optimization problems, *Multimedia Tools and Applications*.(IF: 3.6 [-link](#))
35. Abdelhamid, A.A., El-kenawy, E.S.M., Ibrahim, A., Eid, M.M., Khafaga, D.S., Alhussan, A.A., Mirjalili, S., **Khodadadi, N.**, Lim, W.H. and Shams, M.Y., (2023), Innovative Feature Selection Method Based on Hybrid Sine Cosine and Dipper Throated Optimization Algorithms, *IEEE Access*.(IF: 3.367 [-link](#))
34. Alharbi, A.H., Towfek, S.K., Abdelhamid, A.A., Ibrahim, A., Eid, M.M., Khafaga, D.S., **Khodadadi, N.**, Abualigah, L. and Saber, M., (2023) Diagnosis of Monkeypox Disease Using Transfer Learning and Binary Advanced Dipper Throated Optimization Algorithm, *Biomimetics*.(IF: 4.5 [-link](#))
33. Alhussan, A.A., Abdelhamid, A.A., Towfek, S.K., Ibrahim, A., Abualigah, L., **Khodadadi, N.**, Khafaga, D.S., Al-Otaibi, S. and Ahmed, A.E., (2023), Classification of Breast Cancer Using Transfer Learning and Advanced Al-Biruni Earth Radius Optimization, *Biomimetics*.(IF: 4.5 [-link](#))
32. Alharbi, A.H., Abdelhamid, A.A., Ibrahim, A., Towfek, S.K., **Khodadadi, N.**, Abualigah, L., Khafaga, D.S., Ahmed, A.E.(2023), Improved Dipper-Throated Optimization for Forecasting Metamaterial Design Bandwidth for Engineering Applications, *Biomimetics*.(IF: 4.5 [-link](#))
31. Abdelhamid, A.A., Towfek, S.K., **Khodadadi, N.**, Alhussan, A.A., Khafaga, D.S., Eid, M.M. and Ibrahim, A., (2023), Waterwheel Plant Algorithm: A Novel Meta-heuristic Optimization Method, *Processes*.(IF: 3.5 [-link](#))
30. **Khodadadi, N.**, Abualigah, L., Qasem Al-Tashi, Q., Mirjalili, S., (2023), Multi-objective chaos game optimization, *Neural Computing and Applications*.(IF: 5.102 [-link](#))
29. **Khodadadi, N.**, Talatahari, S. and Gandomi, A.H, (2023), ANNA: Advanced neural network algorithm for optimization of structures, *Proceedings of the Institution of Civil Engineers-Structures and Buildings*.(IF: 1.53 [-link](#))
28. El-Kenawy, E.S.M., Mirjalili, S., **Khodadadi, N.**, Abdelhamid, A.A., Eid, M.M., El-Said, M. and Ibrahim, A., (2023), Feature selection in wind speed forecasting systems based on meta-heuristic optimization, *Plose One*.(IF: 3.752 [-link](#))
27. Atteia, G., El-kenawy, E.S.M., Samee, N.A., Jamjoom, M.M., Ibrahim, A., Abdelhamid, A.A., Azar, A.T., **Khodadadi, N.**, Ghanem, R.A. and Shams, M.Y., (2023), Adaptive Dynamic Dipper Throated Optimization for Feature Selection in Medical Data, *Computer Systems Science and Engineering*.(IF: 4.39 [-link](#))
26. El Sayed, M., Abdelhamid, A.A., Ibrahim, A., Mirjalili, S., **Khodadadi, N.**, Alhussan, A.A. and Khafaga, D.S., (2023), Al-Biruni Earth Radius (BER) Metaheuristic

- Search Optimization Algorithm, *Computer Systems Science and Engineering*.(IF: 4.39 [-link](#))
25. Khafaga, D. S., Karim, F. K., Abdelhamid, A. A., El-Kenawy, E. M., Alkahtani, H. K., **Khodadadi, N.**, Hadwan, M., Ibrahim, A.,(2023), Voting Classifier and Metaheuristic Optimization for Network Intrusion Detection, *Computers, Materials and Continua*.(IF: 4.15 [-link](#))
 24. Sharma, S.,**Khodadadi, N.**, Saha, A.K., Gharehchopogh, F.S. and Mirjalili, S., (2022), Non-dominated Sorting Advanced Butterfly Optimization Algorithm for Multi-objective Problems, *Journal of Bionic Engineering*.(IF:3.27 [-link](#))
 23. Khafaga, D.S., Ibrahim, A., El-Kenawy, E.S.M., Abdelhamid, A.A., Karim, F.K., Mirjalili, S., **Khodadadi, N.**, Lim, W.H., Eid, M.M. and Ghoneim, M.E., (2022), An Al-Biruni Earth Radius Optimization-Based Deep Convolutional Neural Network for Classifying Monkeypox Disease, *Diagnostics*.(IF: 3.992 [-link](#))
 22. Abdollahzadeh, B., Soleimanian, 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](#))
 21. **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](#))
 20. 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](#))
 19. 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](#))
 18. 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](#))
 17. 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](#))
 16. 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](#))
 15. **Khodadadi, N.**, Soleimanian, G. F., and Mirjalili, S. (2022), MOAVOA: a new multi-objective artificial vultures optimization algorithm, *Neural Computing and Applications*.(IF: 5.606 [-link](#))
 14. 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](#))
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10. **Khodadadi, N.**, Naser, M. Z., De Caso, F.,]& Nanni, A. Artificial Intelligence Model for Fire Resistance of FRP-Strengthened Beams.*CAMX 2024*, San Diego, USA.
9. **Khodadadi, N.**, Roghani, H., De Caso, F., Yelena, Y., Mirjalili, S. and Nanni, N., (2024), Machine Learning Approach for the Flexural Strength of 3D-Printed Fiber-Reinforced Concrete (3DP-FRC) Based on the Meta-heuristic Algorithm with Sensitivity Analysis, *American Concrete Institute (ACI) Convention*, New Orleans, USA.

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6. **Khodadadi, N.**, De Caso, and Nanni, N., (2024), Training machine learning model with metaheuristic algorithms to predict the compressive strength of GFRP- confined circular concrete specimens, *Engineering Mechanics Institute Conference and Probabilistic Mechanics and Reliability Conference*, Chicago, USA.
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4. **Khodadadi, N.**, Roghani, H., De Caso, F., Kenawy, S.K., Yelena, Y., and Nanni, N., (2023), PSO-CatBoost Machine Learning Model to Predict the Compressive Strength of CFRP- Confined Circular Concrete Columns, *American Concrete Institute (ACI) Convention*, Boston, USA.
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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

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- **Editor Board:** Big Data, AI, and the Environment (specialty section of Frontiers in Environmental Science)
- **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

- 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	2014–2015
	Course: Engineering mathematics	
	University of Tabriz , Tabriz, Iran	2011–2014
	Course: Statics	

- Interests**
- Concrete and advanced composite-based systems
 - 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)

Sport Awards	1st rank of Province Swimming Champion	2019
	1st rank of Province Soccer Champion	2018
	1st rank of Province Futsal Champion	2017

- Languages**
- 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