# CV

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## EXPERIENCE

**University of California**, Berkeley, CA, USA — Feb 2025–Current
In the Field of Earthquake and AI application for 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 and AI application for 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

## HONARS AND AWARDS

- 5 hot papers with 8 highly cited papers — 2025
- World top 2% scientists batest database prepared by Stanford University researchers and released through Elsevier — 2025
- Civil and & Architectural Engineering (CAE) Outstanding Student Scholarship Award — 2025

October 7, 2025

- Frederick Palmer Prize by the Institution of Civil Engineers (ICE) 2025
- Structural Engineering Institute (SEI) Futures Young Professional 2025
- ACI Fellowship foundation 2024
- Structural Engineering Institute (SEI) Futures Fund Student Scholarship ASCE 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

**SERVICES**

- E-Board of ACI's Task Group on Artificial Intelligence
- ASCE CTA AI Task Force
- 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 – journlas**

108. **Khodadadi, N.**, Roghani, H., De Caso, F., El-kenawy, E. S. M., Yesha, Y., & Nanni, A. (2025). Machine learning approach for the flexural strength of 3D-printed fiber-reinforced concrete based on the meta-heuristic algorithm. Structural Concrete.(IF: 3.3–link).
107. **Khodadadi, N**., Golafshani, E., Roghani, H., Behnood, A.,El-kenawy, S., Ngo, T. & Nanni, A. (2025). Predicting the Compressive Strength of Glass Fiber-Reinforced Polymer Confined-Concrete Elements using Metaheuristics-Guided Machine Learning. *International Journal of Concrete Structures and Materials*,(Accepted).
106. Yu, Y., Zhou, L **Khodadadi, N**., & Nanni, A. (2025). Explainable Machine Learning Framework with Experimental Validation for Strength Prediction of Magnesium Phosphate Cement. *International Journal of Concrete Structures and Materials*,(Accepted).
105. Yu, Y., Zhou, L **Khodadadi, N**., & Nanni, A. (2025). Size Effects on Uniaxial Compression and Tension in Recycled Aggregate Concrete Fabricated Using Conventional and Equivalent Mortar Volume Techniques. *Journal of Materials in Civil Engineering*,(Accepted).
104. Taffese, W. Z., **Khodadadi, N**., Zhu, Y., Mirjalili, S., & Nanni, A. (2025). A Generative Adversarial Network Enhanced Ensemble Learning-based Prediction Model for Moment Improvement Effect of UHPC Strengthened Damaged RC Beams. *Case Studies in Construction Materials*,(IF: 6.6–link).
103. Yu, X., Liu, Q. F., **Khodadadi, N**., Hu, T., Liu, J., & Nanni, A. (2025). Probabilistic Assessment of Chloride Ion Migration in Concrete: Enhancing Predictive Accuracy and Gaining Insights into Distribution Patterns. *Journal of Materials in Civil Engineering*,(IF: 3.5–link).
102. Yu, X., Song, A., **Khodadadi, N**., Yu, Y., & Nanni, A. (2025). A novel approach for predicting FRP debonding strain in concrete using an optimized self-learning model. *Composite Structures*,(IF: 7.1–link).
101. Yu, X., **Khodadadi, N**., Song, A., Yu, Y., & Nanni, A. (2025). Prediction and analysis of punching shear capacity in steel fiber reinforced concrete slab using machine learning. *Results in Engineering*,(IF: 7.9–link).
100. Mirdarsoltany, M., Hussain, Z., **Khodadadi, N**., & Nanni, A. (2025). Hexagonal, hollow and perforated concrete units reinforced with GFRP bars: Experimental and FEM analysis. *Construction and Building Materials* ,(IF: 8.0–link).
99. Takieldeen, A., Towfek, S., Zaki, A., & **Khodadadi, N.** (2025). IoT-Based Cybersecurity Threat Detection Using Feature Se-lection and Dipper Throated Optimization Algorithm. *International Journal of Telecommunications*,(IF: -–link).
98. Ghasemi, M., **Khodadadi, N.**, Trojovský, P., Li, L., Mansor, Z., Abualigah, L., Alharbi, A.H. and El-Kenawy, E.S.M., (2025). Kirchhoff's law algorithm (KLA): a novel physics-inspired non-parametric metaheuristic algorithm for optimization problems. *Artificial Intelligence Review*,(IF: 14.9 –link).
97. Shami, T. M., Al-Tashi, Q., **Khodadadi, N.**, Abdulkadir, S. J., Ahmed, A., & Mirjalili, S. (2025). Dimension selection: an innovative metaheuristic strategy for particle swarm optimization. *Cluster Computing*,(IF: 4.1 –link).
96. Khafaga, D. S., Eid, M. M., Khodadadi, E., El-Kenawy, E. S. M., Alhussan, A. A., & **Khodadadi, N**. (2025). Hybrid greylag goose and particle swarm optimization for early detection of Parkinson's disease from speech features. *Computers in Biology and Medicine*,(IF: 6.3 –link).
95. Khafaga, D. S., Eid, M. M., El-Kenawy, E. S. M., Khodadadi, E., Alhussan, A. A., & **Khodadadi, N**. (2025). Empowering heart attack treatment for women through machine learning and optimization techniques. *Computers in Biology and Medicine*,(IF: 6.3 –link).

94. Sami Khafaga, D., El-Kenawy, E. S. M., Rizk, F. H., Eid, M. M., Khodadadi, E., & **Khodadadi, N**. (2025). Ocotillo optimization-driven deep learning for bone marrow cytology classification. *PLoS One*,(IF: 3.7 –link).
93. Ghasemi, M., Akbari, M. A., Zare, M., Mirjalili, S., Deriche, M., Abualigah, L., & **Khodadadi, N**. (2025). Birds of prey-based optimization (BPBO): a metaheuristic algorithm for optimization. *Evolutionary Intelligence*,(IF: 2.6 –link).
92. Goodarzimehr, V., Pereira, J. L. J., & **Khodadadi, N**. (2025). MOSRS: An engineering multi-objective optimization through Einsteinian concept. *PLoS One*,(IF: 3.7 –link).
91. Alharbi, A. H., Rizk, F. H., Gaber, K. S., Eid, M. M., El-Kenawy, E. S. M., Khodadadi, E., & **Khodadadi, N**. (2025). Hybrid deep learning optimization for smart agriculture: Dipper throated optimization and polar rose search applied to water quality prediction. *PLoS One*.(IF: 3.7 –link).
90. Wang L, Du H, Zhang Z, Hu G, Mirjalili S, **Khodadadi N**, Hussien AG, Liao Y, Zhao W.(2025). Tianji's horse racing optimization (THRO): a new metaheuristic inspired by ancient wisdom and its engineering optimization applications. *Artificial Intelligence Review*.(IF: 14.9 –link).
89. Elshewey, A. M., Alhussan, A. A., Khafaga, D. S., Radwan, M., El-Kenawy, E. S. M., & **Khodadadi, N**. (2025). An enhanced adaptive dynamic metaheuristic optimization algorithm for rainfall prediction depends on long short-term memory. *PLoS One*.(IF: 3.7 –link).
88. Naser MZ, Al-Bashiti MK, Tapeh AT, Naser A, Kodur V, Hawileh R, Abdalla J, **Khodadadi N**, Gandomi AH, Eslamlou AD (2025). A review of benchmark and test functions for global optimization algorithms and metaheuristics. *Wiley Interdisciplinary Reviews: Computational Statistics*.(IF: 5.4 –link).
87. M. El-Kenawy, E.S., **Khodadadi, N.**, Eid, M.M., Khodadadi, E., Khodadadi, E., Khafaga, D.S., Alhussan, A.A., Ibrahim, A. and Saber, M., (2025). Improved cancer detection through feature selection using the binary Al Biruni Earth radius algorithm. *Scientific Reports*.(IF: 3.9 –link).
86. Nanni, A., Aghajanzadeh, I., Suraneni, P., & **Khodadadi, N** (2025). Seawater-mixed Concrete A literature review, *Structural 254 – gennaio-marz*.(IF:-–link).
85. El-Kenawy, E. S. M., Alhussan, A. A., Khodadadi, N., Mirjalili, S., & Eid, M. M. (2025). Predicting potato crop yield with machine learning and deep learning for sustainable agriculture. *Potato Research*.(IF: 2.9 –link).
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 Al-

gorithm (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). iHow

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., EI-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, *Multimedia 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)

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**PATENT**

1. Kiddy Searcher Robot Raily 2018

**TEACHING EXPERIENCES**

**University of Tabriz**, Tabriz, Iran — 2014–2016
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Course: Introduction to Optimization, Introduction to Fracture Mechanic

**Azad University Kish International**, Kish Island, Iran — 2019–2022
Course: Structural Analysis I & II
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1st rank of Province Swimming Champion — 2019
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