

Mahdi Panahi



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h-index(Google scholar): **51**

i10-index(Google scholar): **80**

Citation(Google scholar):**10300**

EDUCATION

Ph.D. (02/2019 - 02/2023)

University: Kangwon National University (KNU), South Korea

Major: Smart Regional Innovation (AI in Geoscience)

GPA: **99.09/100**

Master's Degree (02/2007 - 02/2009)

University: Islamic Azad University, Tehran, Iran

Major: Geophysics Engineering (Natural Hazard)

Bachelor's Degree (02/2003 - 01/2007)

University: Islamic Azad University, Tehran, Iran

Major: Geomatics (Survey) Engineering

ACADEMIC EMPLOYMENT

Postdoctoral

Department of Geomatic (remote sensing), **Tehran University** (QS World University Rankings: 400), Tehran. 08/2025 - Present

Postdoctoral

Department of Physical Geography, **Stockholm University** (QS World University Rankings: 128), Sweden. 08/2024 – 8/2025

Researcher

Water Centre, **KTH Royal Institute of Technology** (QS World University Rankings: 74), Sweden. 08/2024 - Present

Postdoctoral

Department of Civil and Environmental Engineering, **Yonsei University** (QS World University Rankings: 56), South Korea. 02/2023 – 06/2024

Researcher

Department of Physical Geography, **Stockholm University** (QS World University Rankings: 118), Sweden. 06/2022 - 12/2022

Researcher

Department of GeoAI, **Korea Institute of Geoscience and Mineral Resources (KIGAM)**, South Korea. 09/2018 - 02/2023

AWARDS

Named among the list of the **world's top 2 percent scientists**, released by Stanford University (2025 report).

Named among the list of the **world's top 2 percent scientists**, released by Stanford University (2024 report).

Named among the list of the **world's top 2 percent scientists**, released by Stanford University (2023 report).

Named among the list of the **world's top 2 percent scientists**, released by Stanford University (2022 report).

77- **Panahi, M.**, Rezaie, F., and Kalantari, Z., Comparing Predictive Performance of Optimized Machine Learning Techniques for Global Flood Susceptibility Analysis, **Journal of Hydrology: Regional Studies**, (Under review).

76- **Panahi, M.** and Rezaie, F., and Kalantari, Z., Global Landslide Susceptibility Mapping: Utilizing Optimized Support Vector Regression and Meta-heuristic Algorithms, **Natural Hazard**.

75- **Panahi, M.**, Rezaie, F., Kalantari, Z. and Moeini, H., Comparative Analysis of Classification Ability of Deep Learning Models for Landslide Detection and Enhancing Susceptibility Mapping Accuracy using Optimized Convolutional Neural Network Algorithms, **Engineering Applications of Artificial Intelligence** (Under review).

74- Seo, J., **Panahi, M.**, Kim, j., Bateni, S.M., and Kim, Y., Global snow water equivalent product derived from machine learning model trained with in situ measurement data, **Earth System Science Data (ESSD)** (Under review).

2024

73- Alesheikh, A.A., Chatrsimab, Z., Rezaie, F., Lee, S., Jafari, A. and **Panahi, M.**, 2024. Land subsidence susceptibility mapping based on InSAR and a hybrid machine learning approach. The Egyptian Journal of Remote Sensing and Space Sciences, (Impact Factor: 3.7).
<https://doi.org/10.1016/j.ejrs.2024.03.004>

72- Ghayur Sadigh, A., Alesheikh, A.A., Bateni, S.M., Jun, C., Lee, S., Nielson, J.R., **Panahi, M.** and Rezaie, F., 2024. Comparison of optimized data-driven models for landslide susceptibility mapping. Environment, Development and Sustainability, (Impact Factor: 4.5).
<https://doi.org/10.1007/s10668-023-03212-1>

71- Tran, T.T.K., Janizadeh, S., Bateni, S.M., Jun, C., Kim, D., Trauernicht, C., Rezaie, F., Giambelluca, T.W. and **Panahi, M.**, 2024. Improving the prediction of wildfire susceptibility on Hawai'i Island, Hawai'i, using explainable hybrid machine learning models. Journal of environmental management, (Impact Factor: 8).
<https://doi.org/10.1016/j.jenvman.2023.119724>

2023

70- **Panahi, M.**, Khosravi, K., Rezaie, F., Kalantari, Z., Ferreira, C., 2023. A Country Wide Evaluation of Sweden's Spatial Flood Modeling with Optimized Convolutional Neural Network Algorithms, **Earth's Future**, (Impact Factor: 8).
<https://doi.org/10.1029/2023EF003749>

69- Rezaie, F., **Panahi, M.**, Bateni, S.M., Kim, S., Lee, J., Lee, J., Yoo, J., Kim, H., Kim, S.W. and Lee, S., 2023. Spatial modeling of geogenic indoor radon distribution in Chungcheongnam-do, South Korea using enhanced machine learning algorithms. **Environment International**, (Impact Factor: 11.8).
<https://doi.org/10.1016/j.envint.2022.107724>

68- Rezaie, F., **Panahi, M.**, Bateni, S.M., Lee, S., Jun, C., Trauernicht, C. and Neale, C.M., 2023. Development of novel optimized deep learning algorithms for wildfire modeling: A case study of Maui, Hawai 'i. **Engineering Applications of Artificial Intelligence**, (Impact Factor: 8).
<https://doi.org/10.1016/j.engappai.2023.106699>

67- Golkarian, A., Khosravi, K., **Panahi, M.** and Clague, J.J., 2023. Spatial variability of soil water erosion: Comparing empirical and intelligent techniques. **Geoscience Frontiers**, (Impact Factor: 8.9).
<https://doi.org/10.1016/j.gsf.2022.101456>

66- Paryani, S., Bordbar, M., Jun, C., **Panahi, M.**, Bateni, S.M., Neale, C.M., Moeini, H. and Lee, S., 2023. Hybrid-based approaches for the flood susceptibility prediction of Kermanshah province, Iran. **Natural Hazards**, (Impact Factor: 3.7).

<https://doi.org/10.1007/s11069-022-05701-4>

65- Ghayur Sadigh, A., Alesheikh, A.A., Bateni, S.M., Jun, C., Lee, S., Nielson, J.R., **Panahi, M.** and Rezaie, F., 2023. Comparison of optimized data-driven models for landslide susceptibility mapping. **Environment, Development and Sustainability**, (Impact Factor: 4.889).

<https://doi.org/10.1016/j.cageo.2011.04.012>

64- Aoulmi, Y., Marouf, N., Rasouli, K. and **Panahi, M.**, 2023. Runoff Predictions in a Semiarid Watershed by Convolutional Neural Networks Improved with Metaheuristic Algorithms and Forced with Reanalysis and Climate Data. **Journal of Hydrologic Engineering**, (Impact Factor:2.4).

<https://doi.org/10.1061/JHYEFF.HEENG-5920>

63- Tran, T.T.K., Bateni, S.M., Rezaie, F., **Panahi, M.**, Jun, C., Trauernicht, C. and Neale, C.M., 2023. Enhancing predictive ability of optimized group method of data handling (GMDH) method for wildfire susceptibility mapping. **Agricultural and Forest Meteorology**, (Impact Factor: 6.2).

<https://doi.org/10.1016/j.agrformet.2023.109587>

62- Jafari, A., Alesheikh, A.A., Rezaie, F., **Panahi, M.**, Shahsavar, S., Lee, M.J. and Lee, S., 2023. Enhancing a convolutional neural network model for land subsidence susceptibility mapping using hybrid meta-heuristic algorithms. **International Journal of Coal Geology**, (Impact Factor: 5.689).

<https://doi.org/10.1016/j.coal.2023.104350>

61- Shafapourtehrany, M., Rezaie, F., Jun, C., Heggy, E., Bateni, S.M., **Panahi, M.**, Ö zener, H., Shabani, F. and Moeini, H., 2023. Mapping Post-Earthquake Landslide Susceptibility Using U-Net, VGG-16, VGG-19, and Metaheuristic Algorithms. **Remote Sensing**, (Impact Factor: 5).

<https://doi.org/10.3390/rs15184501>

2022

60- Hamed, H., Alesheikh, A. A., **Panahi, M.**, & Lee, S. (2022). Landslide susceptibility mapping using deep learning models in Ardabil province, Iran. **Stochastic Environmental Research and Risk Assessment**, (Impact Factor: 3.82).

<https://doi.org/10.1007/s00477-022-02263-6>

59- **Panahi, M.**, Rahmati, O., Kalantari, Z., Darabi, H., Rezaie, F., Moghaddam, D. D., ... & Lee, S. (2022). Large-scale dynamic flood monitoring in an arid-zone floodplain using SAR data and hybrid machine-learning models. **Journal of Hydrology**, (Impact Factor: 5.72).

<https://doi.org/10.1016/j.jhydrol.2022.128001>

58- **Panahi, M.**, Khosravi, K., Golkarian, A., Roostaei, M., Barzegar, R., Omidvar, E., ... & Lee, S. (2022). A country-wide assessment of Iran's land subsidence susceptibility using satellite-based InSAR and machine learning. **Geocarto International**, (Impact Factor: 4.889).

<https://doi.org/10.1080/10106049.2022.2086631>

56- Rezaie, F., **Panahi, M.**, Bateni, S. M., Jun, C., Neale, C. M., & Lee, S. (2022). Novel hybrid models by coupling support vector regression (SVR) with meta-heuristic algorithms (WOA and GWO) for flood susceptibility mapping. **Natural Hazards**, (Impact Factor: 5.19).

<https://doi.org/10.1007/s11069-022-05424-6>

55- **Panahi, M.**, Rahmati, O., Rezaie, F., Lee, S., Mohammadi, F., & Conoscenti, C. (2022). Application of the group method of data handling (GMDH) approach for landslide susceptibility zonation using readily available spatial covariates. **Catena**, (Impact Factor: 5.19).

<https://doi.org/10.1016/j.catena.2021.105779>

54- Fadhilah, M. F., Hakim, W. L., **Panahi, M.**, Rezaie, F., Lee, C. W., & Lee, S. (2022). Mapping of landslide potential in Pyeongchang-gun, South Korea, using machine learning meta-based optimization algorithms. **The Egyptian Journal of Remote Sensing and Space Science**, (Impact Factor: 5.18).

<https://doi.org/10.1016/j.ejrs.2022.03.008>

53- **Panahi, M.**, Yariyan, P., Rezaie, F., Kim, S.W., Sharifi, A., Alesheikh, A.A., Lee, J., Lee, J., Kim, S., Yoo, J. and Lee, S., 2021. Spatial modeling of radon potential mapping using deep learning algorithms. **Geocarto International**, (Impact Factor: 4.889).

<https://doi.org/10.1080/10106049.2021.2022011>

52- Hakim, W. L., Rezaie, F., Nur, A. S., **Panahi, M.**, Khosravi, K., Lee, C. W., & Lee, S. (2022). Convolutional neural network (CNN) with metaheuristic optimization algorithms for landslide susceptibility mapping in Icheon, South Korea. **Journal of environmental management**, (Impact Factor: 6.78).

<https://doi.org/10.1016/j.jenvman.2021.114367>

51- Jaafari, A., **Panahi, M.**, Mafi-Gholami, D., Rahmati, O., Shahabi, H., Shirzadi, A., Lee, S., Bui, D.T. and Pradhan, B., 2022. Swarm intelligence optimization of the group method of data handling using the cuckoo search and whale optimization algorithms to model and predict landslides. **Applied Soft Computing**, (Impact Factor: 6.72).

<https://doi.org/10.1016/j.asoc.2021.108254>

50- Rezaie, F., **Panahi, M.**, Lee, J., Lee, J., Kim, S., Yoo, J., & Lee, S. (2021). Radon potential mapping in Jangsu-gun, South Korea using probabilistic and deep learning algorithms. **Environmental Pollution**, (Impact Factor: 8.07).

<https://doi.org/10.1016/j.envpol.2021.118385>

2021

49- **Panahi, M.**, Dodangeh, E., Rezaie, F., Khosravi, K., Van Le, H., Lee, M.J., Lee, S. and Pham, B.T., 2021. Flood spatial prediction modeling using a hybrid of meta-optimization and support vector regression modeling. **Catena**, (Impact Factor: 5.19).

<https://doi.org/10.1016/j.catena.2020.105114>

48- **Panahi, M.**, Khosravi, k., Ahmad, S., Panahi, S., Heddami, S., Melesse, A., Omidvar, E., Lee, C.H., 2021. Cumulative Infiltration and Infiltration rate prediction using optimized deep learning algorithms: A study in Western Iran. **Journal of Hydrology: Regional Studies**, (Impact Factor: 3.64).

<https://doi.org/10.1016/j.ejrh.2021.100825>

47- **Panahi, M.**, Rahmati, O., Rezaie, F., Lee, S., Mohammadi, F., Conoscenti, C., 2021. Application of the group method of data handling (GMDH) approach for landslide susceptibility zonation using readily available spatial covariates, **Catena**, (Impact Factor: 5.19).

<https://doi.org/10.1016/j.catena.2021.105779>

46- Rezaie, F., Kim, S.W., Alizadeh, **M.**, **Panahi, M.**, Kim, H., Kim, S. and Lee, J., 2021. Application of Machine Learning Algorithms for Geogenic Radon Potential Mapping in Danyang-Gun, South Korea. **Frontiers in Environmental Science**, (Impact Factor: 4.88).

<https://doi.org/10.3389/fenvs.2021.753028>

45- Chen, Y., Chen, W., Rahmati, O., Falah, F., Kulakowski, D., Lee, S., Rezaie, F., **Panahi, M.**, Bahmani, A., Darabi, H. and Haghighi, A.T., 2021. Toward the development of deep-learning analyses for snow avalanche releases in Mountain regions. **Geocarto International**, (Impact Factor: 4.88).

<https://doi.org/10.1080/10106049.2021.1986578>

44- Lei, X., Chen, W., **Panahi, M.**, Falah, F., Rahmati, O., Uemaa, E., Kalantari, Z., Ferreira, C.S.S., Rezaie, F., Tiefenbacher, J.P. and Lee, S., 2021. Urban flood modeling using deep-learning approaches in Seoul, South Korea. **Journal of Hydrology**, (Impact Factor: 5.72).

<https://doi.org/10.1016/j.jhydrol.2021.126684>

43- Li, Y., Chen, W., Rezaie, F., Rahmati, O., Davoudi Moghaddam, D., Tiefenbacher, J., **Panahi, M.**, Lee, M.J., Kulakowski, D., Tien Bui, D. and Lee, S., 2021. Debris flows modeling using anthropogenic and geo-environmental factors: developing hybridized deep-learning algorithms. **Geocarto International**, (Impact Factor: 4.88).

<https://doi.org/10.1080/10106049.2021.1912194>

42- Pourghasemi, H.R., Amiri, M., Edalat, M., Ahrari, A.H., **Panahi, M.**, Sadhasivam, N. and Lee, S., 2020. Assessment of Urban Infrastructures Exposed to Flood Using Susceptibility Map and Google Earth Engine.

IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, (Impact Factor: 3.82).

<https://doi.org/10.1109/JSTARS.2020.3045278>

2020

41- **Panahi, M.**, Jaafari, A., Shirzadi, A., Shahabi, H., Rahmati, O., Omidvar, E., Lee, S. and Bui, D.T., 2020. Deep learning neural networks for spatially explicit prediction of flash flood probability. **Geoscience Frontiers**, (Impact Factor: 6.85).

<https://doi.org/10.1016/j.gsf.2020.09.007>

40- **Panahi, M.**, Gayen, A., Pourghasemi, H. R., Rezaie, F., & Lee, S. (2020). Spatial prediction of landslide susceptibility using hybrid support vector regression (SVR) and the adaptive neuro-fuzzy inference system (ANFIS) with various metaheuristic algorithms. **Science of The Total Environment**, (Impact Factor: 7.98).

<https://doi.org/10.1016/j.scitotenv.2020.139937>

39- **Panahi, M.**, Sadhasivam, N., Pourghasemi, H. R., Rezaie, F., & Lee, S. (2020). Spatial prediction of groundwater potential mapping based on convolutional neural network (CNN) and support vector regression (SVR). **Journal of Hydrology**, (Impact Factor: 4.405).

<https://doi.org/10.1016/j.jhydrol.2020.125033>

38- Balogun, A.L., Rezaie, F., Pham, Q.B., Gigović, L., Drobnjak, S., Aina, Y.A., **Panahi, M.**, Yekeen, S.T. and Lee, S., 2020. Spatial prediction of landslide susceptibility in western Serbia using hybrid support vector regression (SVR) with with GWO, BAT and COA algorithms. **Geoscience Frontiers**, (Impact Factor: 6.85).

<https://doi.org/10.1016/j.gsf.2020.10.009>

37- Yekrangnia, M., Bakhshi, A., Ghannad, M.A. and **Panahi, M.**, 2020. Risk assessment of confined unreinforced masonry buildings based on FEMA P-58 methodology: a case study—school buildings in Tehran. **Bulletin of Earthquake Engineering**, pp.1-42, (Impact Factor: 2.62).

<https://doi.org/10.1007/s10518-020-00990-1>

36- Hooshangi, N., Alesheikh, A.A., **Panahi, M.** and Lee, S., 2020. USAR simulation system: presenting spatial strategies in agents' task allocation under uncertainties. **Natural Hazards and Earth System Sciences Discussions**, pp.1-18, (Impact Factor: 3.02).

<https://doi.org/10.5194/nhess-21-3449-2021>

35- Khosravi, K., **Panahi, M.**, Golkarian, A., SD Keesstra, PM Saco, Bui, D. T, Lee, S., Convolutional neural network approach for spatial prediction of flood hazard at national scale of Iran, **Journal of Hydrology**, (Impact Factor: 4.405).

<https://doi.org/10.1016/j.jhydrol.2020.125552>

34- Dodangeh, E., **Panahi, M.**, Rezaie, F., Lee, S., Bui, D. T., Lee, C. W., & Pradhan, B. (2020). Novel hybrid intelligence models for flood-susceptibility prediction: Meta optimization of the GMDH and SVR models with the genetic algorithm and harmony search. **Journal of Hydrology**, (Impact Factor: 4.405).

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33- Chen, W., Chen, X., Peng, J., **Panahi, M.**, & Lee, S. (2020). Landslide susceptibility modeling based on ANFIS with teaching-learning-based optimization and Satin bowerbird optimizer. **Geoscience Frontiers**, (Impact Factor: 6.85).

<https://doi.org/10.1016/j.gsf.2020.07.012>

32- Rahmati, O., Darabi, H., **Panahi, M.** et al. (2020). Development of novel hybridized models for urban flood susceptibility mapping. **Scientific Reports**, (Impact Factor: 3.99).

<https://doi.org/10.1038/s41598-020-69703-7>

31- Thi Ngo, P. T., **Panahi, M.**, Khosravi, K., Ghorbanzadeh, O., Karimnejad, N., Cerdà, A. & Lee, S. (2020). Evaluation of deep learning algorithms for national scale landslide susceptibility mapping of Iran. **Geoscience Frontiers**, (Impact Factor: 6.85).

<https://doi.org/10.1016/j.gsf.2020.06.013>

30- Syifa, M., **Panahi, M.** and Lee, C.W., 2020. Mapping of Post-Wildfire Burned Area Using a Hybrid Algorithm and Satellite Data: The Case of the Camp Fire Wildfire in California, USA. **Remote Sensing**, (Impact Factor: 4.18).
<https://doi.org/10.3390/rs12040623>

29- Rahmati, O., **Panahi, M.**, Ghiasi, S.S., Deo, R.C., Tiefenbacher, J.P., Pradhan, B., Jahani, A., Goshtasb, H., Kornejady, A., Shahabi, H. and Shirzadi, A., 2020. Hybridized neural fuzzy ensembles for dust source modeling and prediction. **Atmospheric Environment**, (Impact Factor: 4.02).
<https://doi.org/10.1016/j.atmosenv.2020.117320>

28- Dodangeh, E., Choubin, B., Eigdir, A.N., Nabipour, N., **Panahi, M.**, Shamsirband, S. and Mosavi, A., 2020. Integrated machine learning methods with resampling algorithms for flood susceptibility prediction. **Science of The Total Environment**, (Impact Factor: 7.98).
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27- Moghaddam, D.D., Rahmati, O., **Panahi, M.**, Tiefenbacher, J., Darabi, H., Haghizadeh, A., Haghighi, A.T., Nalivan, O.A. and Bui, D.T., 2020. The effect of sample size on different machine learning models for groundwater potential mapping in mountain bedrock aquifers. **Catena**, (Impact Factor: 5.19).
<https://doi.org/10.1016/j.catena.2019.104421>

2019

26- Khosravi, K., Daggupati, P., Alami, M.T., Awadh, S.M., Ghareb, M.I., **Panahi, M.**, Pham, B.T., Rezaie, F., Qi, C. and Yaseen, Z.M., 2019. Meteorological data mining and hybrid data-intelligence models for reference evaporation simulation: A case study in Iraq. **Computers and Electronics in Agriculture**, (Impact Factor: 3.17).
<https://doi.org/10.1016/j.compag.2019.105041>

25- Rahmati, O., **Panahi, M.**, Kalantari, Z., Soltani, E., Falah, F., Dayal, K.S., Mohammadi, F., Deo, R.C., Tiefenbacher, J. and Bui, D.T., 2019. Capability and robustness of novel hybridized models used for drought hazard modeling in southeast Queensland, Australia. **Science of The Total Environment**, (Impact Factor: 7.93).
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24- Pourghasemi, H.R., Gayen, A., **Panahi, M.**, Rezaie, F. and Blaschke, T., 2019. Multi-hazard probability assessment and mapping in Iran. **Science of The Total Environment**, (Impact Factor: 7.93).
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23- Wang, Y., Hong, H., Chen, W., Li, S., **Panahi, M.**, Khosravi, K., Shirzadi, A., Shahabi, H., Panahi, S. and Costache, R., 2019. Flood susceptibility mapping in Dingnan County (China) using adaptive neuro-fuzzy inference system with biogeography based optimization and imperialistic competitive algorithm. **Journal of environmental management**, (Impact Factor: 5.86).
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22- Ahmadlou, M., Karimi, M., Alizadeh, S., Shirzadi, A., Parvinnejhad, D., Shahabi, H. and **Panahi, M.**, 2019. Flood susceptibility assessment using integration of adaptive network-based fuzzy inference system (ANFIS) and biogeography-based optimization (BBO) and BAT algorithms (BA). **Geocarto International**, (Impact Factor: 4.88).
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21- Chen, W., **Panahi, M.**, Khosravi, K., Pourghasemi, H.R., Rezaie, F. and Parvinnejhad, D., 2019. Spatial prediction of groundwater potentiality using ANFIS ensembled with teaching-learning-based and biogeography-based optimization. **Journal of Hydrology**, (Impact Factor: 4.04).
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20- Jaafari, A., **Panahi, M.**, Pham, B.T., Shahabi, H., Bui, D.T., Rezaie, F. and Lee, S., 2019. Meta optimization of an adaptive neuro-fuzzy inference system with grey wolf optimizer and biogeography-based optimization algorithms for spatial prediction of landslide susceptibility. **Catena**, (Impact Factor: 5.19).

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19- Jaafari, A., Zenner, E.K., **Panahi, M.** and Shahabi, H., 2019. Hybrid artificial intelligence models based on a neuro-fuzzy system and metaheuristic optimization algorithms for spatial prediction of wildfire probability. **Agricultural and forest meteorology**, (Impact Factor: 5.31).

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18- Chen, W., Hong, H., **Panahi, M.**, Shahabi, H., Wang, Y., Shirzadi, A., Pirasteh, S., Alesheikh, A.A., Khosravi, K., Panahi, S. and Rezaie, F., 2019. Spatial prediction of landslide susceptibility using gis-based data mining techniques of anfis with whale optimization algorithm (woa) and grey wolf optimizer (gwo). **Applied Sciences**, (Impact Factor: 2.21).

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16- Tien Bui, D., Shirzadi, A., Shahabi, H., Chapi, K., Omidavr, E., Pham, B.T., Talebpour Asl, D., Khaledian, H., Pradhan, B., **Panahi, M.** and Bin Ahmad, B., 2019. A novel ensemble artificial intelligence approach for gully erosion mapping in a semi-arid watershed (Iran). **Sensors**, (Impact Factor: 2.21).

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2018

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13- Tien Bui, D., Shahabi, H., Shirzadi, A., Chapi, K., Hoang, N.D., Pham, B.T., Bui, Q.T., Tran, C.T., **Panahi, M.**, Bin Ahmad, B. and Saro, L., 2018. A novel integrated approach of relevance vector machine optimized by imperialist competitive algorithm for spatial modeling of shallow landslides. **Remote Sensing**, (Impact Factor: 4.18).

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12- Tien Bui, D., Shahabi, H., Shirzadi, A., Chapi, K., Alizadeh, M., Chen, W., Mohammadi, A., Ahmad, B.B., **Panahi, M.**, Hong, H. and Tian, Y., 2018. Landslide detection and susceptibility mapping by airsar data using support vector machine and index of entropy models in cameron highlands, malaysia. **Remote Sensing**, (Impact Factor: 4.18).

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JOURNAL REVIEWER

- 1- Remote Sensing of Environment (13.58)
- 2- Journal of Cleaner Production (IF: 9.29)
- 3- Process Safety and Environmental Protection (IF: 7.87)
- 4- Future Generation Computer Systems (IF: 7.17)
- 5- Automation in Construction (IF: 7.70)
- 6- Science of The Total Environment (IF: 7.96)
- 7- Future Generation Computer Systems (IF: 7.18)
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- 31- Geomorphology (IF: 4.139)
- 32- Remote Sensing (IF: 4.18)
- 33- IEEE Access (IF: 4.09)
- 34- IEEE Geoscience and Remote Sensing Letters (IF :3.89)
- 35- Geomorphology (IF: 4.13)
- 36- Process Biochemistry (IF: 3.75)
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- 67- Concurrency and Computation: Practice and Experience (IF: 1.36)
- 68- Concurrency and Computation: Practice and Experience (IF: 1.36)
- 69- Journal of Current Science and Technology
- 70- Acta Ecologica Sinica
- 71- Environmental Challenges
- 72- Results in Earth Sciences

CONTRIBUTIONS IN BOOKS

Panahi, M ., Yekrangnia, M., Rezaie, F., Damavandi,A., Panahi, S., Pourghasemi, H.R., GIS-based determination of suitability of existing schools and new schools site selection using step-wise weight assessment ratio analysis (SWARA), radial basis function (RBF), and imperialist competitive (ICA) algorithms, **Spatial Modeling in GIS and R for Earth and Environmental Science, Elsevier, 2018.**

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TEACHING EXPERIENCE

Korea Institute of Geoscience and Mineral Resources (KIGAM), Seoul, South Korea, **2019-2022**

- GIS (ARCGIS, ILWIS), Remote Sensing (ENVI, IDRISI)
- AI Programming for Geoscience (e.g., MCDM, Fuzzy Logic, Neural Network and deep learning By Python and MATLAB Language) and Statistical (Python and MATLAB Language).

PROFESSIONAL EXPERIENCE

Korea Institute of Geoscience and Mineral Resources (KIGAM). (Employ Full Time)

06/2019 – 08/2022

- Geoscience data center researcher.

Pars Gostaran Aghigh Engineering Company, Tehran, Iran. (Employ Full Time)

09/2008 – 01/2012

- Expert of natural hazard and disaster management.

COMPUTER SKILLS

- Expertise in Geographic Information Systems (GIS) and Remote Sensing (RS):
 - Proficient in the use of software packages such as ArcGIS, SNAP, and ENVI.
- Programming Skills:
 - Skilled in programming languages and platforms including Python, R, VB.NET, MATLAB, ArcEngine, and ArcObjects.
- Advanced Data Analysis Techniques:
 - Experienced in utilizing innovative methods for data analysis, including: MCDM, Fuzzy Logic, AI models, optimization algorithms, and image processing.
- Good knowledge of Fracture Network Modeling, Alpha Shape, Fry Modeling

RESEARCH INTEREST

Monitoring natural hazards, environmental changes, and social hazards using GIS and remote sensing through advanced analytical tools, including:

- Machine learning
- Mathematical algorithms
- Spatial analysis (e.g., fractal geometry, alpha shape, graph theory, spatial and topological analyses)
- Statistical analysis (using statistical software and programming)

REFERENCES

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