Maryam Torkashvand

EDUCATION

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EDUCATION	
2022-Present	Ph.D. in Geographic Information Science and Cartography Department of Geography and Sustainability Sciences, The University of Iowa, Iowa City, Iowa.
2017-2020	Master of Science in Remote Sensing and Geographic Information System (RS & GIS)- Satellite MeteorologyScience and Research Branch, Islamic Azad University, Tehran, Iran. GPA: 3.92/4Thesis:A new framework for risk assessment of groundwater pollutionSupervisors:Dr. Aminreza Neshat, Dr. Saman Javadi
2012-2014	Bachelor of Engineering in Surveying EngineeringShahid Rajaee Teacher Training University, Tehran, Iran.Thesis:Investigation on the concept of integration of Geographic informationSystem (GIS) and Global Positioning System (GPS)Supervisor:Dr. Abbas Sheykh Mohammad Zadeh
2008-2010	Associate of Science in Civil Engineering- Photogrammetry Institute of surveying and Mapping of National Geography Organization, Tehran, Iran.
RESEARCH INTERESTS	 Geographic Information Science Human-Geography Numerical Modeling Geo-Spatial Analysis
PUBLICATIONS	• Torkashvand, M., Neshat, A., Javadi, S., Yousefi, H. DRASTIC framework improvement using Step-wise Weight Assessment Ratio Analysis (SWARA) and combination of Genetic Algorithm and Entropy. 2020. <i>Environmental Science and Pollution Research</i> . https://doi.org/10.1007/s11356-020-11406-7.
	• Torkashvand, M., Neshat, A., Javadi, S., Pradhan, B. New hybrid evolutionary algorithm for optimizing index-based groundwater vulnerability assessment method. 2021. <i>Journal of Hydrology</i> , 598, 126446. https://doi.org/10.1016/j.jhydrol.2021.126446.
	• Torkashvand, M., Neshat, A., Javadi, S., Yousefi, H. A comparative evaluation of groundwater vulnerability based on integrated DRASTIC model using various hybrid methods. (Submitted)
CONFERENCES ATTENDED	• Torkashvand, M., Neshat, A., Javadi, S., Yousefi, H. An improved DRASTIC-based groundwater vulnerability assessment using particle swarm optimization (PSO) algorithm. <i>Proceedings of IAH2019, the 46th Annual Congress of the International Association of Hydrogeologists, Málaga (Spain), September 22-27, 2019.</i>

	• Torkashvand M., Neshat A., Javadi S., Yousefi H. (2021) Improvement of GIS-Based DRASTIC Model Using Step-Wise Weight Assessment Ratio Analysis (SWARA) and Two New Hybrid Frameworks (Iran). <i>In: Ksibi M. et al. (eds) Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions (2nd Edition). EMCEI 2019. Environmental Science and Engineering. Springer, Cham.</i> https://doi.org/10.1007/978-3-030-51210-1_283.
SKILLS	
Programming Languages	MATLAB, Python
Software	ESRI ArcGIS, QGIS, AutoCAD Civil 3D, ENVI, SPSS, Adobe Photoshop
Languages	Persian: Native English: IELTS test overall score: 7 Listening: 7.5 / Reading: 7.5 / Writing: 6.5 / Speaking: 7
Other Skills	Machine Learning, Team Work, Risk Management, Crew Resource Management (CRM)