



Ruhollah Taghizadeh

POSTDOC RESEARCHER

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About me

My primary research interest is in Pedometrics with a particular focus on remote/proximal soil sensing and Digital Soil Mapping. The core of the pedometric approach integrates soil system knowledge with applied statistics, Machine Learning, geoinformatics, and Remote Sensing. I apply the most recent technology in spatial data analysis to model and predict various environmental metrics such as soils, water, vegetation, and climate.

Experience

Department of Geosciences, University of Tübingen, Germany Postdoc Researcher	2017-Present
Department of Plant Science, South Dakota State University, USA Postdoc Researcher	2016
Faculty of Agriculture, Ardakan University, Iran Assistant Professor	2013-2017
Department of Soil and Water, Agricultural Research Center, Iran Geospatial Consultant	2010-2011

Education

Faculty of Agricultural Engineering and Technology, University of Tehran, Iran Doctor of Philosophy in Agricultural Engineering-Soil Science	2012
Sydney Institute of Agriculture, The University of Sydney, Australia Postgraduate Visiting Scholar in Digital Soil Mapping	2012
Faculty of Agricultural Engineering and Technology, University of Tehran, Iran Master of Science in Agricultural Engineering-Soil Science	2008
Faculty of Agriculture, SB University of Kerman, Iran Bachelor of Science in Agricultural Engineering-Soil Science	2005

Projects



German Research Foundation Sensitivity and Response of Himalayan Timberline Ecotones to Global Warming (<i>Collaborator</i>)	2022
German Research Foundation Transferability of Machine Learning for Soil Mapping (<i>Collaborator</i>)	2020
Iranian Agricultural Research, Education & Extension Organization Digital Soil Mapping in Kurdistan (<i>Collaborator</i>)	2019
Alexander von Humboldt Foundation Digital Soil Mapping with Limited Data (<i>Principal Investigator</i>)	2017

Research Interests

Pedology; Digital Soil Mapping; Remote and Proximal Sensing; Spatial Data Analysis; Machine Learning; Statistical Inference; Soil Health; Climate Change; Precision Agriculture

Teaching

Teaching Assistant at University of Tübingen, Germany

- Spatial Pedology and Geomorphology 
- Statistics 

2020-Present

GS

UGS

Assistant Professor at Ardakan University, Iran

2013-2020

- Soil Genesis and Classification
- Soil Erosion and Conservation
- Fundamentals of Soil Science
- Saline Soil Management

UGS

UGS

UGS

GS

Guest Lecturer at Yazd University, Iran

2013-2017

- Soil Mapping
- Land Evaluation

GS

GS

Guest Lecturer at Shahid Sadoughi University of Medical Sciences, Iran

2009-2011

- Geographic Information System

UGS, UG

Guest Lecturer at Khorramshahr University of Marine Science and Technology, Iran

2009-2011

- Fundamentals of Soil Science

UGS

Teaching Assistant at University of Tehran, Iran

2009-2011

- Fundamentals of Soil Science (Lab)

UGS

Workshop Lecturer

2013-Present

- An introduction to Spatial Analysis in QGIS, University of Tübingen
- An introduction to GIS, University of Tübingen
- Spatial Data in R, Iranian Soil & Water Research Institute 
- Digital Soil Mapping in R, Iranian Soil & Water Research Institute
- Data Mining in Soil Sciences, Iranian Soil & Water Research Institute
- Modelling in Soil Sciences, Iranian Soil Science Congress

2 hrs.-2022

2 hrs.-2022

7 days online-2022

2 days-2016

2 days-2016

4 hrs.-2014

Supervising Experience

2013-Present

- Co-supervising 4 and advising 15 Ph.D. students
- Supervising 5 and advising 16 M.Sc. students
- Supervising 5 B.Sc. students

Fellowships, Honors, Awards

Top 2% Scientists: List Developed by a Stanford-Elsevier

2022

Workshop Grant Award: A European Civic University

2022

Top 2% Scientists: List Developed by a Stanford-Elsevier

2021

Top Paper: Five Nominated Pedometrics Best Paper

2020

Travel Grant Award: 14 Conferences, University of Tübingen

2017-Present

Postdoctoral Fellowship: Alexander von Humboldt Foundation

2017

Top Research Grant Award: Ardakan University (20,000\$)

2013-Present

Top Lecturer Award: Ardakan University

2017

Top Researcher Award: Ardakan University

2016

Top Ph.D. Student: GPA of 18/20, University of Tehran

2012

Visiting Fellowship: IR Ministry of Science, Research & Technology

2011

Member: Iran's National Elites Foundation

2010

Postgraduate Fellowship: IR Ministry of Science, Research & Technology

2009

Top Student Researcher Award: University of Tehran

2009

Top M.Sc. Student: GPA of 18/20, University of Tehran

2008

Top B.Sc. Student: GPA of 17/20, SB University of Kerman

2005

Top %0.8: Iranian National University Entrance Exam

2001

Professional Services

Member of Award Committee for the Pedometrics Commission

2022-Present

Professional Services (continued) -> _____

Executive Board Members of ISMC	2022-Present
Associate Editor of Frontiers in Soil Science/Pedometrics	2022-Present
Webmaster of Pedometrics Homepage	2022-Present
Editorial Board of Soil Studies	2022-Present
Editorial Board of Levantine Journal of Applied Sciences	2022-Present
The Organizer of Cabon4Green Workshop Funded by <i>A European Civic University</i>	2022
Guest Editor of Frontiers in Environmental Science	2022-Present
The Organizer of Scientific Workshops, S-Project, SFB 1070, University of Tübingen	2021-Present
Guest Editor of Frontiers in Soil Science	2021-Present
Guest Editor of Agronomy	2020-Present
Member of European Geosciences Union	2017-Present
Member of German Soil Science Society	2017-Present
Head of Department Horticultural Science, Ardakan University	2017
Executive Chairman of 1th Conference of Agriculture, Ardakan University	2017
The Organizer of Workshops, Ardakan University	2013-2017
Review Panel for National Salinity Research Center	2013-2017
Reviewed >200 papers from >20 journals	2013-Present

Professional Training

Open Source Solutions for Earth System Data, OpenGeoHub	2022
Modeling Water Fluxes in the Soil-Plant System, UCLouvain	2022
Oxford Machine Learning Summer School, AI for Global Goals	2022
Science Communication, University of Tübingen	2022
Agile Project Management for Research, University of Tübingen	2022
Spatial Sampling, Wageningen University & Research	2021
Research Funding from Industry, University of Tübingen	2021
Leading Virtual Teams, University of Tübingen	2021
Grant Proposal Writing, University of Tübingen	2021
Uncertainty Propagation in Spatial Modelling, Wageningen University & Research	2020
Geostatistics, Wageningen University & Research	2019
GEOSTAT Summer School, OpenGeoHub	2018
Digital Soil Mapping, ISRIC	2018
Ph.D. Supervision Process, University of Tübingen	2018
Digital Soil Mapping with R, The University of Sydney	2012

Technical Skills

R	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
R Markdown	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Python	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Git/GitHub	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
QGIS	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
ArcMap	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
SAGA GIS	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Google Earth Engine	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
ENVI	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
JMP	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
RapidMiner, Weka	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Office (Word, Excel, PowerPoint)	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Digital Soil mapping	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Soil Chemical and Physical Analysis	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Soil Mineralogical and Micromorphological Analysis	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Description, Classification and Interpretation of Soils in the Field	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>

Field Work

Soil Sampling, Soil Survey, Geophysical Surveys, Soil Erosion Surveys
Soil Sampling, Soil Survey, Land Evaluation
Soil Sampling

Iran
Kenya
USA

Languages

English
German
Persian



Research Impacts

Publications

- Peer Reviewed Journals	85
- First Author	21
- Co-First Author	3
- Last Author	17
- Corresponding Author	25
- Book Chapters	3
- Book Editor (<i>in Persian</i>)	1
- Presentations	17

H-Index

- Google Scholar	28
- Scopus	25
- Web of Science	24

Citation

- Google Scholar	2665
- Scopus	1985
- Web of Science	1764

Publications

SELECTED PAPERS (* INDICATES CORRESPONDING AUTHOR; ^ INDICATES CO-FIRST AUTHOR)

1. **Taghizadeh-Mehrjardi, R.***; Sheikhpour, R.; Zeraatpisheh, M.; Amirian-Chakan, A.; Toomanian, N.; Kerry, R.; Scholten, T. Semi-Supervised Learning for the Spatial Extrapolation of Soil Information. *Geoderma* 2022, 426, 116094, doi:10.1016/j.geoderma.2022.116094.
2. **Taghizadeh-Mehrjardi, R.***; Schmidt, K.; Toomanian, N.; Heung, B.; Behrens, T.; Mosavi, A.; S. Band, S.; Amirian-Chakan, A.; Fathabadi, A.; Scholten, T. Improving the Spatial Prediction of Soil Salinity in Arid Regions Using Wavelet Transformation and Support Vector Regression Models. *Geoderma* 2021, 383, 114793, doi:10.1016/j.geoderma.2020.114793.
3. **Taghizadeh-Mehrjardi, R.**; Hamzehpour, N.; Hassanzadeh, M.; Heung, B.; Ghebleh Goydaragh, M.; Schmidt, K.; Scholten, T. Enhancing the Accuracy of Machine Learning Models Using the Super Learner Technique in Digital Soil Mapping. *Geoderma* 2021, 399, 115108, doi:10.1016/j.geoderma.2021.115108.
4. **Taghizadeh-Mehrjardi, R.***; Mahdianpari, M.; Mohammadimanesh, F.; Behrens, T.; Toomanian, N.; Scholten, T.; Schmidt, K. Multi-Task Convolutional Neural Networks Outperformed Random Forest for Mapping Soil Particle Size Fractions in Central Iran. *Geoderma* 2020, 376, 114552, doi:10.1016/j.geoderma.2020.114552.
5. **Taghizadeh-Mehrjardi, R.***; Nabiollahi, K.; Minasny, B.; Triantafyllis, J. Comparing Data Mining Classifiers to Predict Spatial Distribution of USDA-Family Soil Groups in Baneh Region, Iran. *Geoderma* 2015, 253–254, 67–77, doi:10.1016/j.geoderma.2015.04.008.

ALL PAPERS

1. Zolfaghari Nia, M.; Moradi, M.; Moradi, G.; **Taghizadeh-Mehrjardi, R.***. Machine Learning Models for Prediction of Soil Properties in the Riparian Forests. *Land* 2023, 12, 32, doi:10.3390/land12010032.

2. Zeraatpisheh, M.; Garosi, Y.; Reza Owliaie, H.; Ayoubi, S.; **Taghizadeh-Mehrjardi, R.**; Scholten, T.; Xu, M. Improving the Spatial Prediction of Soil Organic Carbon Using Environmental Covariates Selection: A Comparison of a Group of Environmental Covariates. *CATENA* 2022, 208, 105723, doi:10.1016/j.catena.2021.105723.
3. Zeraatpisheh, M.; Bottega, E.L.; Bakhshandeh, E.; Owliaie, H.R.; **Taghizadeh-Mehrjardi, R.**; Kerry, R.; Scholten, T.; Xu, M. Spatial Variability of Soil Quality within Management Zones: Homogeneity and Purity of Delineated Zones. *CATENA* 2022, 209, 105835, doi:10.1016/j.catena.2021.105835.
4. **Taghizadeh-Mehrjardi, R.***; Sheikhpour, R.; Zeraatpisheh, M.; Amirian-Chakan, A.; Toomanian, N.; Kerry, R.; Scholten, T. Semi-Supervised Learning for the Spatial Extrapolation of Soil Information. *Geoderma* 2022, 426, 116094, doi:10.1016/j.geoderma.2022.116094.
5. **Taghizadeh-Mehrjardi, R.**; Khademi, H.; Khayamim, F.; Zeraatpisheh, M.; Heung, B.; Scholten, T. A Comparison of Model Averaging Techniques to Predict the Spatial Distribution of Soil Properties. *Remote Sensing* 2022, 14, 472, doi:10.3390/rs14030472.
6. Taghipour, K.; Heydari, M.; Kooch, Y.; Fathizad, H.; Heung, B.; **Taghizadeh-Mehrjardi, R.** Assessing Changes in Soil Quality between Protected and Degraded Forests Using Digital Soil Mapping for Semiarid Oak Forests, Iran. *CATENA* 2022, 213, 106204, doi:10.1016/j.catena.2022.106204.
7. Sohrabizadeh, Z.; Sodaieizadeh, H.; Hakimzadeh, M.A.; **Taghizadeh-Mehrjardi, R.**; Ghanei Bafghi, M.J. A Statistical Approach to Study the Spatial Heavy Metal Distribution in Soils in the Kushk Mine, Iran. *Geoscience Data Journal* 2022, doi:10.1002/gdj3.175.
8. Shirzadi, A.; Shahabi, H.; Nabiollahi, K.; **Taghizadeh-Mehrjardi, R.**; Lizaga, I.; Clague, J.J.; Singh, S.K.; Golmohamadi, F.; Ahmad, A. Towards Robust Smart Data-Driven Soil Erodibility Index Prediction under Different Scenarios. *Geocarto International* 2022, 0, 1–34, doi:10.1080/10106049.2022.2076918.
9. Shahabi, A.; Nabiollahi, K.; Davari, M.; Zeraatpisheh, M.; Heung, B.; Scholten, T.; **Taghizadeh-Mehrjardi, R.** Spatial Prediction of Soil Properties through Hybridized Random Forest Model and Combination of Reflectance Spectroscopy and Environmental Covariates. *Geocarto International* 2022, 0, 1–24, doi:10.1080/10106049.2022.2138565.
10. Mirzaeitalarposhti, R.; Shafizadeh-Moghadam, H.; **Taghizadeh-Mehrjardi, R.**; Demyan, M.S. Digital Soil Texture Mapping and Spatial Transferability of Machine Learning Models Using Sentinel-1, Sentinel-2, and Terrain-Derived Covariates. *Remote Sensing* 2022, 14, 5909, doi:10.3390/rs14235909.
11. Mallah, S.; Delsouz Khaki, B.; Davatgar, N.; Scholten, T.; Amirian-Chakan, A.; Emadi, M.; Kerry, R.; Mosavi, A.H.; **Taghizadeh-Mehrjardi, R.***. Predicting Soil Textural Classes Using Random Forest Models: Learning from Imbalanced Dataset. *Agronomy* 2022, 12, 2613, doi:10.3390/agronomy12112613.
12. Mahmoudzadeh, H.; Matinfar, H.R.; Kerry, R.; Eskandari, S.; Ebrahimi-Khusfi, Z.; **Taghizadeh-Mehrjardi, R.** New Hybrid Evolutionary Models for Spatial Prediction of Soil Properties in Kurdistan. *Soil Use and Management* 2022, 38, 191–211, doi:10.1111/sum.12753.
13. Fathizad, H.; **Taghizadeh-Mehrjardi, R.***; Hakimzadeh Ardakani, M.A.; Zeraatpisheh, M.; Heung, B.; Scholten, T. Spatiotemporal Assessment of Soil Organic Carbon Change Using Machine-Learning in Arid Regions. *Agronomy* 2022, 12, 628, doi:10.3390/agronomy12030628.
14. Emami, S.; Alikhani, H.A.; Pourbabaee, A.A.; Etesami, H.; Sarmadian, F.; Motesharezadeh, B.; **Taghizadeh-Mehrjardi, R.** Performance Evaluation of Phosphate-Solubilizing Fluorescent Pseudomonads in Minimizing Phosphorus Fertilizer Use and Improving Wheat Productivity: A Two-Year Field Study. *J Soil Sci Plant Nutr* 2022, 22, 1224–1237, doi:10.1007/s42729-021-00726-3.
15. Cheshmberah, F.; Zolfaghari, A.A.; **Taghizadeh-Mehrjardi, R.**; Scholten, T. Evaluation of Mathematical Models for Predicting Particle Size Distribution Using Digital Soil Mapping in Semiarid Agricultural Lands. *Geocarto International* 2022, 0, 1–23, doi:10.1080/10106049.2022.2076911.
16. **Taghizadeh-Mehrjardi, R.***; Schmidt, K.; Toomanian, N.; Heung, B.; Behrens, T.; Mosavi, A.; S. Band, S.; Amirian-Chakan, A.; Fathabadi, A.; Scholten, T. Improving the Spatial Prediction of Soil Salinity in Arid Regions Using Wavelet Transformation and Support Vector Regression Models. *Geoderma* 2021, 383, 114793, doi:10.1016/j.geoderma.2020.114793.

17. **Taghizadeh-Mehrjardi, R.**; Hamzehpour, N.; Hassanzadeh, M.; Heung, B.; Ghebleh Goydaragh, M.; Schmidt, K.; Scholten, T. Enhancing the Accuracy of Machine Learning Models Using the Super Learner Technique in Digital Soil Mapping. *Geoderma* 2021, 399, 115108, doi:10.1016/j.geoderma.2021.115108.
18. **Taghizadeh-Mehrjardi, R.***; Fathizad, H.; Ali Hakimzadeh Ardakani, M.; Sodaiezhadeh, H.; Kerry, R.; Heung, B.; Scholten, T. Spatio-Temporal Analysis of Heavy Metals in Arid Soils at the Catchment Scale Using Digital Soil Assessment and a Random Forest Model. *Remote Sensing* 2021, 13, 1698, doi:10.3390/rs13091698.
19. **Taghizadeh-Mehrjardi, R.***; Emadi, M.; Cherati, A.; Heung, B.; Mosavi, A.; Scholten, T. Bio-Inspired Hybridization of Artificial Neural Networks: An Application for Mapping the Spatial Distribution of Soil Texture Fractions. *Remote Sensing* 2021, 13, 1025, doi:10.3390/rs13051025.
20. Soltani-Gerdefaramarzi, S.; **Taghizadeh-Mehrjardi, R.**; Kerry, R.; Shirmardi, M. Effect of Interceptor Drainage on Phosphorus Transport and Soil Chemical Characteristics under Different Cultivation Conditions. *Paddy Water Environ* 2021, 19, 585–594, doi:10.1007/s10333-021-00856-5.
21. Rostaminia, M.; Rahmani, A.; Mousavi, S.R.; **Taghizadeh-Mehrjardi, R.**; Maghsodi, Z. Spatial Prediction of Soil Organic Carbon Stocks in an Arid Rangeland Using Machine Learning Algorithms. *Environ Monit Assess* 2021, 193, 815, doi:10.1007/s10661-021-09543-8.
22. Poppiel, R.R.; Demattê, J.A.M.; Rosin, N.A.; Campos, L.R.; Tayebi, M.; Bonfatti, B.R.; Ayoubi, S.; Tajik, S.; Afshar, F.A.; Jafari, A.; et al. High Resolution Middle Eastern Soil Attributes Mapping via Open Data and Cloud Computing. *Geoderma* 2021, 385, 114890, doi:10.1016/j.geoderma.2020.114890.
23. Nabiollahi, K.; **Taghizadeh-Mehrjardi, R.**[^]; Shahabi, A.; Heung, B.; Amirian-Chakan, A.; Davari, M.; Scholten, T. Assessing Agricultural Salt-Affected Land Using Digital Soil Mapping and Hybridized Random Forests. *Geoderma* 2021, 385, 114858, doi:10.1016/j.geoderma.2020.114858.
24. Nabiollahi, K.; Shahlaee, S.; Zahedi, S.; **Taghizadeh-Mehrjardi, R.**; Kerry, R.; Scholten, T. Land Use and Soil Organic Carbon Stocks—Change Detection over Time Using Digital Soil Assessment: A Case Study from Kamyaran Region, Iran (1988–2018). *Agronomy* 2021, 11, 597, doi:10.3390/agronomy11030597.
25. Morsy, M.; **Taghizadeh-Mehrjardi, R.**; Michaelides, S.; Scholten, T.; Dietrich, P.; Schmidt, K. Optimization of Rain Gauge Networks for Arid Regions Based on Remote Sensing Data. *Remote Sensing* 2021, 13, 4243, doi:10.3390/rs13214243.
26. Khojasteh, D.N.; Goudarzi, G.; **Taghizadeh-Mehrjardi, R.**; Asumadu-Sakyi, A.B.; Fehrest-Sani, M. Long-Term Effects of Outdoor Air Pollution on Mortality and Morbidity—Prediction Using Nonlinear Autoregressive and Artificial Neural Networks Models. *Atmospheric Pollution Research* 2021, 12, 46–56, doi:10.1016/j.apr.2020.10.007.
27. IbrahimPour, S.; KhavaninZadeh, A.R.; **Taghizadeh-Mehrjardi, R.**; De Boeck, H.J.; Gul, A. Dust-Related Impacts of Mining Operations on Rangeland Vegetation and Soil: A Case Study in Yazd Province, Iran. *Environ Earth Sci* 2021, 80, 467, doi:10.1007/s12665-021-09758-5.
28. Goydaragh, M.G.; **Taghizadeh-Mehrjardi, R.***; Jafarzadeh, A.A.; Triantafilis, J.; Lado, M. Using Environmental Variables and Fourier Transform Infrared Spectroscopy to Predict Soil Organic Carbon. *CATENA* 2021, 202, 105280, doi:10.1016/j.catena.2021.105280.
29. Ghebleh Goydaragh, M.; **Taghizadeh-Mehrjardi, R.**; Golchin, A.; Asghar Jafarzadeh, A.; Lado, M. Predicting Weathering Indices in Soils Using FTIR Spectra and Random Forest Models. *CATENA* 2021, 204, 105437, doi:10.1016/j.catena.2021.105437.
30. Ebrahimi-Khusfi, Z.; **Taghizadeh-Mehrjardi, R.**; Roustaei, F.; Ebrahimi-Khusfi, M.; Mosavi, A.H.; Heung, B.; Soleimani-Sardo, M.; Scholten, T. Determining the Contribution of Environmental Factors in Controlling Dust Pollution during Cold and Warm Months of Western Iran Using Different Data Mining Algorithms and Game Theory. *Ecological Indicators* 2021, 132, 108287, doi:10.1016/j.ecolind.2021.108287.
31. Ebrahimi-Khusfi, Z.; **Taghizadeh-Mehrjardi, R.***[^]; Nafarzadegan, A.R. Accuracy, Uncertainty, and Interpretability Assessments of ANFIS Models to Predict Dust Concentration in Semi-Arid Regions. *Environ Sci Pollut Res* 2021, 28, 6796–6810, doi:10.1007/s11356-020-10957-z.
32. Ebrahimi-Khusfi, Z.; **Taghizadeh-Mehrjardi, R.***; Mirakbari, M. Evaluation of Machine Learning Models for Predicting the Temporal Variations of Dust Storm Index in Arid Regions of Iran. *Atmospheric Pollution Research*

33. Ebrahimi-Khusfi, Z.; **Taghizadeh-Mehrjardi, R.***; Kazemi, M.; Nafarzadegan, A.R. Predicting the Ground-Level Pollutants Concentrations and Identifying the Influencing Factors Using Machine Learning, Wavelet Transformation, and Remote Sensing Techniques. *Atmospheric Pollution Research* 2021, 12, 101064, doi:10.1016/j.apr.2021.101064.
34. Asadi, M.; Fathzadeh, A.; Kerry, R.; Ebrahimi-Khusfi, Z.; **Taghizadeh-Mehrjardi, R.** Prediction of River Suspended Sediment Load Using Machine Learning Models and Geo-Morphometric Parameters. *Arab J Geosci* 2021, 14, 1926, doi:10.1007/s12517-021-07922-6.
35. Abedi, F.; Amirian-Chakan, A.; Faraji, M.; **Taghizadeh-Mehrjardi, R.**; Kerry, R.; Razmjoue, D.; Scholten, T. Salt Dome Related Soil Salinity in Southern Iran: Prediction and Mapping with Averaging Machine Learning Models. *Land Degradation & Development* 2021, 32, 1540–1554, doi:10.1002/ldr.3811.
36. Zolfaghari, A.A.; Abolkheiryran, M.; Soltani-Toularoud, A.A.; **Taghizadeh-Mehrjardi, R.**; Weldeyohannes, A.O. Prediction of Soil Macronutrients Using Fractal Parameters and Artificial Intelligence Methods. *Spanish Journal of Agricultural Research* 2020, 18, e1104–e1104, doi:10.5424/sjar/2020182-15460.
37. Zeraatpisheh, M.; Jafari, A.; Bagheri Bodaghabadi, M.; Ayoubi, S.; **Taghizadeh-Mehrjardi, R.**; Toomanian, N.; Kerry, R.; Xu, M. Conventional and Digital Soil Mapping in Iran: Past, Present, and Future. *CATENA* 2020, 188, 104424, doi:10.1016/j.catena.2019.104424.
38. **Taghizadeh-Mehrjardi, R.***; Schmidt, K.; Eftekhari, K.; Behrens, T.; Jamshidi, M.; Davatgar, N.; Toomanian, N.; Scholten, T. Synthetic Resampling Strategies and Machine Learning for Digital Soil Mapping in Iran. *European Journal of Soil Science* 2020, 71, 352–368, doi:10.1111/ejss.12893.
39. **Taghizadeh-Mehrjardi, R.**; Schmidt, K.; Amirian-Chakan, A.; Rentschler, T.; Zeraatpisheh, M.; Sarmadian, F.; Valavi, R.; Davatgar, N.; Behrens, T.; Scholten, T. Improving the Spatial Prediction of Soil Organic Carbon Content in Two Contrasting Climatic Regions by Stacking Machine Learning Models and Rescanning Covariate Space. *Remote Sensing* 2020, 12, 1095, doi:10.3390/rs12071095.
40. **Taghizadeh-Mehrjardi, R.**; Nabiollahi, K.; Rasoli, L.; Kerry, R.; Scholten, T. Land Suitability Assessment and Agricultural Production Sustainability Using Machine Learning Models. *Agronomy* 2020, 10, 573, doi:10.3390/agronomy10040573.
41. **Taghizadeh-Mehrjardi, R.***; Mahdianpari, M.; Mohammadimanesh, F.; Behrens, T.; Toomanian, N.; Scholten, T.; Schmidt, K. Multi-Task Convolutional Neural Networks Outperformed Random Forest for Mapping Soil Particle Size Fractions in Central Iran. *Geoderma* 2020, 376, 114552, doi:10.1016/j.geoderma.2020.114552.
42. Seifi, M.; Ahmadi, A.; Neyshabouri, M.-R.; **Taghizadeh-Mehrjardi, R.**; Bahrami, H.-A. Remote and Vis-NIR Spectra Sensing Potential for Soil Salinization Estimation in the Eastern Coast of Urmia Hyper Saline Lake, Iran. *Remote Sensing Applications: Society and Environment* 2020, 20, 100398, doi:10.1016/j.rsase.2020.100398.
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1. **Taghizadeh-Mehrjardi, R.** Modern Concepts in Soil Science (Pedometrics). 388 pages; Ardakan University Press 2016, ISBN: 978-600-9406-08-1.

PEER-REVIEWED BOOK CHAPTERS

1. Maleki, S.; Fathizad, H.; Karimi, A.; **Taghizadeh-Mehrjardi, R.**; Pourghasemi, H.R. Chapter 40 - Monitoring of Spatiotemporal Changes of Soil Salinity and Alkalinity in Eastern and Central Parts of Iran. In Computers in Earth and Environmental Sciences; Pourghasemi, H.R., Ed.; Elsevier, 2022; pp. 547–561 ISBN 978-0-323-89861-4.
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Presentations

TALKS (* INDICATES PRESENTER)

1. **Taghizadeh-Mehrjardi, R.***, Rentschler, T., Schmidt, K., Cheshmberah, F., Scholten, T. 2022. Improving the spatial prediction of soil texture fractions using semi-supervised machine learning in Germany. Jahrestagung der Deutschen Bodenkundlichen Gesellschaft 2022, Trier, Germany. [Talk]
2. **Taghizadeh-Mehrjardi, R.***, Scholten, T. 2022. Semi-supervised learning for predicting soil properties at a national scale of Germany. 22nd World Congress of Soil Science. [Poster]
3. **Taghizadeh-Mehrjardi, R.***, Scholten, T. 2022. Explainable deep neural networks for exploring spatial variability of soil properties in Germany. EGU General Assembly Conference Abstracts. [Talk]
4. **Taghizadeh-Mehrjardi, R.***. 2022. Google Earth Engine. Shahid-Tschamran-Universität. [vTalk] (Webinar)
5. **Taghizadeh-Mehrjardi, R.***. 2021. Digital Soil Mapping. Shahid-Tschamran-Universität. [vTalk] (Webinar)
6. **Taghizadeh-Mehrjardi, R.***. 2021. Digital soil mapping: definition, applications, and challenges. 17th Iranian Soil Science Society Congress. [vTalk] (Keynote Speaker)

7. **Taghizadeh-Mehrjardi, R.***, Sheikhpour, R., Toomanian, N., Scholten, T., 2021. Semi-supervised learning for increasing transferability of machine learning in digital soil mapping. 3th ISMC Conference & Advances in Modeling Soil Systems. [vTalk]
8. **Taghizadeh-Mehrjardi, R.***, Hamzehpour, N., Hassanzadeh, M., Schmidt, K., Scholten, T., 2021. Enhancing accuracy and interpretability of machine learning models using super learning and permutation feature importance techniques in digital soil mapping. EGU General Assembly Conference Abstracts. [vPICO]
9. **Taghizadeh-Mehrjardi, R.***, Toomanian, N., Shamshirband, S., Mosavi, A., Behrens, T., Schmidt, K., Scholten, T., 2020. Predicting and mapping of soil salinity using machine learning algorithms in central arid regions of Iran. EGU General Assembly Conference Abstracts. [vTalk]
10. **Taghizadeh-Mehrjardi, R.***, 2019. Digital mapping of soil functions using machine learning methods in Iran. 9th Bonn Humboldt Award Winners' Forum "Frontiers in Biogeography, Ecology, Anthropology, and Evolution." [Poster]
11. **Taghizadeh-Mehrjardi, R.***, Schmidt, K., Nabiollahi, K., Rasoli, L., Scholten, T. (2019): Machine learning and land suitability assessment for irrigated wheat crop in Kurdistan, Iran. Jahrestagung der Deutschen Bodenkundlichen Gesellschaft 2019, Kommission V /Digital Soil Mapping, 25. – 28. August 2019, Bern, Schweiz. [Poster]
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14. **Taghizadeh-Mehrjardi, R.***, Schmidt, K., Eftekhari, K., Rentschler, T., Scholten, T., 2018. Updating the categorical soil map of Iran using limited soil legacy data. 21st World Congress of Soil Science. [Poster]
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