University of Tabriz

Curriculum Vitae

Dr. Farzin Shahbazi, Associate Prof.
Soil Genesis, Classification and Land Evaluation - Digital Soil Mapping
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1- Educational background:

1-1-PhD (Field of Soil Genesis, Classification and Evaluation), received in 2008. University of Tabriz.
Title of dissertation: **Assessing MicroLEIS DSS application as a new method in land suitability evaluation (casestudy: south part of Ahar region).**
1-2-M.Sc. (Field of Soil Genesis, Classification and Evaluation), received in 2002. University of Tabriz.
Title of thesis: **Qualitative evaluation of land suitability in Khusheh-Mehr region of Bonab for wheat, barley, alfalfa, onion, sugarbeet and maize.**
1-3-B.Sc. (Field of Soil Science), received in 1996. University of Tabriz.

2- Sabbatical leave:

2-1-School of Life and Environmental Science, the University of Sydney, Australia. 2017-2018: **Digital Soil Mapping**, under supervision of **Prof. Alex McBratney**. Working group with **Prof. Budiman Minasny** and **Dr. Brendan Malone**.
2-2-IRNASE, CSIC, Seville, Spain, 2007-2008. Learning and application **MicroLEIS DSS**, under supervision of **Prof. Diego de la Rosa**. Working group with Dr. Maria Anaya Romero.

3- Teaching experiences:

3-1- General soil science
3-2-Soil surveying and mapping
3-3- Land evaluation
3-4-Advanced soil genesis and classification
3-5- Aerial photo interpretation
3-6- Applied GIS in soil science
3-7- Digital Soil Mapping **(preferably with R)**

4- Master of Science and Doctorate Students Advisees/Supervisees:

> 60 students so far.

5- Research activities:

5-1- Urmia Lake restoration program. Granted by the organization of Urmia Lake restoration. University of Sharif, Tehran. **2014-2016**.

5-2- Detailed soil surveying and introducing the suitable medicinal plants in Sarab Medicinal and Industrial Plants Seed Production Station. Granted by the East Azerbaijan Natural Resources Organization. **2011-2013**.

5-3- Applying ArcGIS Geostatistical Analyst for zoning of some soil biological indices in Naghadeh region, Iran. Granted by the University of Tabriz, **2010-2012**.

5-4- Erosion and contamination impacts on Land vulnerability evaluation in Souma area, using MicroLEIS DSS. Granted by the University of Tabriz, **2009-2010.**

5-5- Optimum land use planning in Souma area (Iran), using MicroLEIS DSS. Granted by the University of Tabriz, **2008-2009.**

6- Publications/ Book or Book chapter:

6-1-Shahbazi, F., Anaya-Romero, M., Braimoh, A.K., and de la Rosa, D., 2014. Sustainable land use planning in west Asia using MicroLEIS Decision Support Systems. In: Braimoh, A.K. and Huang, H.Q. (Eds.), Vulnerability of Land Systems in Asia. John Wiley and Sons, New York, pp. 179-194.

6-2-Shahbazi, F. and Malekian, A. 2013. Soil Genesis and Classification. University of Payame Noor Publication (in Persian).

6-3-Shahbazi, F., Jafarzadeh, A.A. de la Rosa, D. and Anaya-Romero, M. 2013. Soil erosion assessment and scenario analysis by using ImpelERO model in east Azerbaijan province, Iran. In: Academy Publish editing, USA, pp. 51-63.

6-4-Shahbazi, F. and de la Rosa, D. 2010. Towards a new agriculture for the climate change era in west Asia, Iran. In: Simard, S.W. and Austin, M.E. (Eds.), Climate Change and Variability. SCIYO Publishing, Croatia, pp. 337-364.

6-5- Mousavi, S.B. and **Shahbazi, F.** 2016. Translated Book in Persian: Guidelines for Surveying Soil and Land Resources. CSIRO Publications, Published by the University of Maragheh, Iran.

7- Recently Publications/National and International Journals:

2020:

Mousavi, A, **Shahabzi, F.,** Oustan, S., Jafarzadeh, A.A., and Minasny, B., 2020. Spatial distribution of iron forms and features in the dried lake bed of Urmia Lake of Iran. **Geoderma Regional,** **https://doi.org/10.1016/j.geodrs.2020.e00275**

2019:

Shahbazi, F., McBratney, A., Malone, B., Oustan, S., and Minasny, B., 2019. Retrospective monitoringof the spatial variability of crystalline iron in soilsof the east shore of Urmia Lake, Iran using remotely sensed data and digital maps. **Geoderma 337, 1196-1207**.

Shahbazi, F., Hughes, P., McBratney, A., Minasny, B., and Malone, B., 2019. Evaluating the spatial and vertical distribution of agriculturally importantnutrients — nitrogen, phosphorous and boron — in North West Iran. **Catena 173, 71-82**.

Pouladi, P., Jafarzadeh, A.A., **Shahbazi, F.,** and Ghorbani, M.A., 2019. Design and implementation of ahybrid MLP-FFA model for soil salinityprediction. **Environmental Earth Sciences 78: 159. https://doi.org/10.1007/s12665-019-8159-6.**

Ghebleh Goydaragh, M., Jafarzadeh, A.A., **Shahbazi, F.,** Oustan, S., Taghizadeh-Mehrjardi, R., and Lado, M., 2019. Estimation of elemental composition of agricultural soils from West Azerbaijan, Iran, using mid-infrared spectral models. **Revista Brasileira de Engenharia Agrícola e Ambiental 33, 460-466.**

Sheidai Karkaj, E., Sepehry, A., Barani, H., Motamedi, J., and **Shahbazi, F.,** 2019. Establishing a suitable soil quality index for semi-arid rangeland ecosystems in northwest of Iran. **Journal of Soil Science and Plant Nutrition 19, 648–658.**

2018:

Shahbazi, F., Huang. J., McBratney, A., and Hughes, P., 2018. Allocating soil profile descriptions to a novel comprehensive soil classification system. **Geoderma 329, 54-60**.

Seyedmohammadi, J., Sarmadian, F., Jafarzadeh, A.A., Ghorbani, M.A., and **Shahbazi, F.,** 2018. Application of SAW, TOPSIS and fuzzy TOPSIS models in cultivation priority planning for maize, rapeseed and soybean crops. **Geoderma 310, 178-190**.

Jafarzadeh, A.A., Rezaei, H., **Shahbazi, F.,** and Alijanpour, A., 2018. The role of forest type on soil evolution and revitalization in Arasbaran region, Iran. **Journal of Environmental Research and Development 12, 359-401.**

Norouzi, M., Jafarzadeh, A.A., Ramezanpour, H., **Shahbazi, F.,** and Khaledian, M., 2018. Micromorphological aspects of flooded soils in Masoule Rudkhan watershed, north of Iran. **Carpathian Journal of Earth and Environmental Sciences 13, 343 – 358.**

Montakhabi Kalajahi, V., Jafarzadeh, A.A., Oustan, S., **Shahbazi, F.,** and Arab Belaghi, R., 2018. Soil Taxonomy (ST) and World Reference Base (WRB) systems proficiency to describe saline and gypsiferous soils properties in some region of East Azerbaijan. **Water and Soil Science 1, 55-67. (in Persian)**

Niknam, P., **Shahabzi, F.,** Oustan, S., and Sokouti, R., 2018. Using Microleis DSS to assess the impact of climate change on land capability in the Miandoab plain, Iran. **Carpathian Journal of Earth and Environmental Sciences 13, 225 – 234.**

Khamseh, A., **Shahbazi, F.,** Oustan, S., Najafi, N. and Davatgar, N. 2018. Impactof tailings damfailure on spatial features of copper contamination (Mazraeh mine area, Iran). **Arabian Journal of Geosciences 10:244. DOI 10.1007/s12517-017-3040-y.**

Seyedmohammadi, J., Jafarzadeh, A.A., Sarmadian, F., **Shahbazi, F.**, and Ghorbani, M.A., 2018. Applying ELECTRE TRI and Parametric Methods in an area of Dasht-e-Moghanland for suitability evaluation of maize cultivation under sprinkler irrigation. **Water and Soil Science 2, 121-137.(in Persian)**

Kaboudi, S., **Shahbazi, F**., Aliasgharzad, N., Najafi, N., and Davatgar, N., 2018. Effect of land uses on soil microbial community and spatial variability in Mirabadlands, Naghadeh. **Journal of Water and Soil 31, 1602-1610. (in Persian)**

Mohammadi, S., Jafarzadeh, A.A., **Shahbazi, F.**, and Rezaei, H., 2018. Semi quantitative review of soil evolution based on morphological and micromorphological studies in Goharan Khoy region. **Water and Soil Science 3, 1-11**. **(in Persian)**

2017:

Seyedmohammadi, J., Sarmadian, F., Jafarzadeh, A.A., **Shahbazi, F.** and Ghorbani, M.A. 2017. Comparing the efficiency of TOPSIS, AHP and Square Root methods in cultivation priority determination for wheat, barley and maize under sprinkler irrigation in Dasht-e-Moghan. **Water and Soil Science 27, 45-59. (in Persian)**

2016:

Shahbazi, F., Rezaei, H., Alidokht, L., Heidari, S., Kazemi, Z., and Mahdavi, S.M., 2016. Impact of sampling density on efficiency of soil salinity map (A case study: Karkaj Research Station, University of Tabriz). **Journal of Water and Soil Conservation 23, 239-251. (in Persian)**

Ganbarie, E., Jafarzadeh, A.A., **Shahbazi, F.,** and Servati, M., 2016. Comparison of AEZ, Wageningenand Alberomodels for maizepotential production prediction in northwest of IRAN.**Biological Forum 8, 484-492.**

Amirian, F., Jafarzadeh, A.A., **Shahbazi, F.,**Ghorbani, M.A., and Servati, M., 2016.Application of theFuzzy Sets theory and FAO method on suitability and clustering of land units in Marand region for sunflower and canola products. **Water and Soil Science 26, 273-290. (in Persian)**

Razmjoo, M., **Shahbazi, F.,** Jafarzadeh, A.A. and Moghadam Vahed, M., 2016. Site speciation of susceptible strata for damask rose cultivation (Case study: Sarab Medicinal and Industrial Plants Seed Production Station). **Water and Soil Science 26, 197-212. (in Persian)**

Sabri, M., Neyishabouri, M.R., Ghorbani, M.A., **Shahbazi, F.,** and Valizadeh, K., 2016. Estimation of soil quality indices and its uncertainty using Bootstrap-based Artificial Neural Networks (BANNs). **Water and Soil Science 26, 173-187. (in Persian)**

Rezaei, H., Jafarzadeh, A.A., Alijanpour, A., **Shahbazi, F.,** and Valizadeh Kamran, K. 2016. Genetically evolution of Arasbaran Forests soils along altitudinal transects of Kaleybar Chai Sofla sub-basin. **Water and Soil Science 26, 151-166. (in Persian)**

Ganbarie, E., Jafarzadeh, A.A., **Shahbazi, F.,** and Servati, M., 2016. Comparing parametric methods the Square Root and the Storie) with the Fuzzy Set theory for land evaluation of Khaje region for wheat. **International Journal of Advanced Biotechnology and Research 7, 343-351.**

Khamseh, A., Oustan, S., **Shahbazi, F.**, Najafi, N., and Davatgar, N., 2016. The relationships between Cu contamination and soil characteristics in downstream of Mazra'eh Copper Mine (Ahar-East Azarbaijan). **Water and Soil Science 26, 95-112. (in Persian)**

Sabri, M., Neyshabouri, M.R., Ghorbani, M.A., **Shahbazi, F.,** Valizadeh, K., and Farajnia, A., 2016. Improved index points of soil moisture retention curve estimation using remote sensing data andthe use of Bayesiannetworks and Artificial NeuralNetwork. **Water and Soil Science 26, 75-91. (in Persian)**

Zeinali, M., Jaafarzadeh, A.A., **Shahbazi, F.,** Oustan, S., and Valizadeh Kamran, K., 2016. Assessing soil surface salinity with basic pixel data sensor TM. **Biological Forum 8, 190-198.**

Zeinali, M., Jaafarzadeh, A.A., **Shahbazi, F.,** and Oustan, S., 2016. Qualitative, quantitative and economic evaluation of land suitability for wheat, barley, maize and sunflower in part of Khoy plain. **Water and Soil Science 25, 15-29. (in Persian)**

Further previously published articles, please visit in Google Scholar via the following address:

https://scholar.google.com/citations?user=JQNZmbUAAAAJ&hl=en

8- Presentations/International Congress:

Shahabzi, F. and McBratney, A., 2019. Key Concepts of Soil Physics: Development, Current Applications and Future Prospects. Lomonosov Moscow State University, Moscow, **Russia**.

Pouladi, P., Jafarzadeh, A.A., **Shahbazi, F.,** Ghorbani, M.A., and Greve, M.H., 2019.Assessing the soil quality index as affected by two land use scenarios in Miandoab region. Izmir, **Turkey**.

Jafarzadeh, A.A., Montakhabi Kalajahi, V., Oustan, S., **Shahbazi, F.,** and Arab Belaghi, R., 2019. Taxonomic distance as a tool for finding correlation between soil taxonomy and world reference base classification system in calcareous, gypsiferous and saline soils. Almaty, **Kazakhstan**.

Ghebleh Goydaragh, M., **Shahbazi, F.,** Neyshabouri, M.R., Jafarzadeh, A.A., and Lado,M., 2018. Can bilinear functions be used to estimate soil plasticity index? VIIICongress of sustainable use and management the soils. Valencia, **Spain**.

Jafarzadeh, A.A., Rezaei, H., **Shahbazi., F.,** and Alijanpour, A., 2017. The role of forest type on soilevolution and revitalization in Arasbaran region. 9th International Congress of Environmental Research, Gwalior, **India**.

Khamseh, A., **Shahbazi, F.,** Oustan, S., Najafi, N. and Davatgar, N. 2016. Impactof tailings dam failure on spatial features of copper contamination (Mazraeh mine area, Iran). International Conference on Integrated Environmental Management for Sustainable Development, Sousse, **Tunisia**.

Jafarzadeh, A.A., Rezaei, H.,Alijanpour, A., **Shahbazi., F.,** and Valizadeh Kamran, K., 2016. Soil organic matter evolution under natural environmental condition in Arasbaran forests. International Conference on Integrated Environmental Management for Sustainable Development, Sousse, **Tunisia**.

Shahbazi, F., Sahabnaghdi, I., Neyshabouri, M.R., and Oustan, S., 2015. Assessing leaching of saline-sodic soils affected by Kaveh-Soda factory effluent using georefrenced maps in Maragheh-Bonab plain. SAFE, Ho Chi Minh, **Vietnam**.

Shahbazi, F., Aliasgharzad, N., Ebrahimzad, S.A., and Najafi, N., 2011. Applying ArcGIS Geostatistical Analyst for zoning of some soil biological properties affected by different land uses. Montpellier, **France**.

Shahbazi, F., and Jafarzadeh, A.A., 2010. Land management planning concerning to workability timing of soil in Souma area, using Aljarafe model. 19th World Congress of Soil Science, Brisbane, **Australia**.

Shahbazi, F., Jafarzadeh, A.A., De la Rosa, D., and Anaya-Romero, M., 2010. Soil erosion assessment and monitoring by using ImpelERO model in east Azerbaijan province, Iran. 19th World Congress of Soil Science, Brisbane, **Australia**.

Shahbazi, F., Jafarzadeh, A.A., and Shahbazi, M.R., 2009. Agro-ecological field vulnerability evaluation and climate change impacts in Souma area (Iran), using MicroLEIS DSS. Biohydrology, Bratislava, **Slovakia**.

Jafarzadeh, A.A., **Shahbazi, F.,** and Shahbazi, M.R., 2009. Suitability evaluation of some specific crops in Souma area (Iran), using Cervatana and Almagra models. Biohydrology, Bratislava, **Slovakia**.

Shahbazi, F., and De la Rosa, D., 2009. Evaluating soil contamination risk impact on land vulnerability and climate change in east Azerbaijan, Iran. EGU, **Austria**.

Shahbazi, F., Jafarzadeh, A.A., and Shahbazi, M.R., 2009. Assessing sustainable agriculture development using the MicroLEIS DSS in Souma area, Iran. Egmondaan Zee, **the Netherlands**.

Shahbazi, F., Jafarzadeh, A.A., Sarmadian, F., Neyshabouri, M.R., Oustan, S., Anaya-Romero, M., Lojo, M., and De la Rosa, D., 2008. Land capability evaluation and climate change impacts in semi-arid and Mediterranean areas using Microleis DSS. Huelva, **Spain**.

Shahbazi, F., Jafarzadeh, A.A., Sarmadian,F., Neyshabouri, M.R., and Oustan, S., 2007. Parent material and land use effects on population frequency distribution parameters of selected soil variables in south part of Ahar region. Pedometrics, Tubingen, **Germany**.

>60 papers were presented at National Congress so far.

Associate Prof. Dr. FarzinShahbazi
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