

Curriculum Vitae (C.V.)

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Educations:

<i>Date</i>	<i>Country</i>	<i>University</i>	<i>University Degree</i>
1992-1996	Iran	Isfahan University of Technology	Bachelor
1996-1998	Iran	Tabriz University	Master
2003-2008	France	Caen University	Ph.D.

Ph.D. Thesis: *Influence of micro-silica on mechanical and geotechnical behavior of stabilized sediments by cement and other additives, From 2005 to 2008, Caen University, Laboratory: M2C; Supervisor: Dr. S. Mezazigh, Advisors: Dr. D. Levacher*

Key words: *Sediments, Stabilization, Valorisation, Microsilica, Freeze and Thaw, Wet and dry, Leaching*

Chapter of Advances in Engineering Research

Title:

THEAPPLICATION OF PPCC AND L-MOMENT METHODS IN FREQUENCY ANALYSIS

NOVA Publication

۳- تالیف فصل اول کتاب با همکاری خانم دکتر ندا خان محمدی

Chapter of Advances in Engineering Research

Title:

COMBINING THE BEST PROBABILITY DISTRIBUTION AND PLOTTING POSITION FORMULA FOR ESTIMATING ANNUAL REFERENCE EVAPOTRANSPIRATION

Published Articles:

- 1- Mezazigh S. and **Behmanesh J.**, Effet de la fumée de silice sur le comportement mécanique et géotechnique d'un sédiment stabilisé à base de ciment et additifs" 2008, Déchets Sciences et Techniques n° 53.
- 2- S. Mehdizadeh, **J. Behmanesh** and K. Khalili, (2016), Application of gene expression programming to predict daily dew point temperature, Applied Thermal Engineering, (112) 1097–1107. <http://dx.doi.org/10.1016/j.applthermaleng.2016.10.181>.
- 3- S. Mehdizadeh, H. Saadatnejadgharahassanlou and **J. Behmanesh**, (2016): Calibration of Hargreaves–Samani and Priestley–Taylor equations in estimating reference evapotranspiration in the Northwest of Iran, Archives of Agronomy and Soil Science, DOI: 10.1080/03650340.2016.1249474.
- 4- S. Mehdizadeh, **J. Behmanesh** and K. Khalili, (2016), Comparison of artificial intelligence methods and empirical equations to estimate daily solar radiation, Journal of Atmospheric and Solar-Terrestrial Physics, (146) 215–227.
- 5- **J. Behmanesh** and S. Mehdizadeh, (2017), Estimation of soil temperature using gene expression programming and artificial neural networks in a semiarid region, Journal of Environmental Earth Sciences, DOI 10.1007/s12665-017-6395-1.
- 6- H. Saadatnejadgharahassanlou, A. Gharehbaghi, S. Mehdizadeh, B. Kaya and **J. Behmanesh**, (2017), Experimental investigation of discharge coefficient over novel kind of sharp-crested V-notch weir, Flow Measurement and Instrumentation, (54) 236–242.
- 7- N. Khanmohammadi, H. Rezaie, M. Montaseri and **J. Behmanesh** (2017), The application of multiple linear regression method in reference evapotranspiration trend calculation, Stochastic Environmental Research and Risk Assessment, DOI 10.1007/s00477-017-1378-z.
- 8- A. Moghaddam, **J. Behmanesh** and A. Farsijani, (2016), Parameters Estimation for the New Four-Parameter Nonlinear Muskingum Model Using the Particle, Water Resource Management (30) 2143-2160 DOI 10.1007/s11269-016-1278-x.
- 9- S. Mehdizadeh, **Javad Behmanesh** and Keivan Khalili, (2017), Evaluating the performance of artificial intelligence methods for estimation of monthly mean soil temperature without using meteorological data, Environmental Earth Sciences 76:325, DOI 10.1007/s12665-017-6607-8.
- 10- S. Mehdizadeh, **J. Behmanesh** and K. Khalili, (2017), Using MARS, SVM, GEP and empirical equations for estimation of monthly mean reference evapotranspiration, Computers and Electronics in Agriculture, (139)103-114, <https://doi.org/10.1016/j.compag.2017.05.002>.
- 11- N. Khanmohammadi, H. Rezaie, M. Montaseri and **J. Behmanesh** (2017), The effect of reference-condition-based temperature modification on the trend of reference evapotranspiration

in arid and semi-arid regions, *Agricultural Water Management*, (194)204-213, <https://doi.org/10.1016/j.agwat.2017.09.010>.

12- S. Mehdizadeh, **J. Behmanesh** and K. Khalili, (2017), A comparison of monthly precipitation point estimates at 6 locations in Iran using integration of soft computing methods and GARCH time series model, *Journal of Hydrology*, (554)721-742, <https://doi.org/10.1016/j.jhydrol.2017.09.056>.

13- S. Mehdizadeh, **J. Behmanesh** and K. Khalili, (2017), New Approaches for Estimation of Monthly Rainfall Based on GEP-ARCH and ANN-ARCH Hybrid Models, *Water Resources Management*, DOI 10.1007/s11269-017-1825-0.

14- N. Khanmohammadi, H. Rezaie, M. Montaseri and **J. Behmanesh** (2017), Regional probability distribution of the annual reference evapotranspiration and its effective parameters in Iran, *Theoretical and Applied Climatology*, DOI 10.1007/s00704-017-2283-6.

15- M. Soleimani, K. Khalili and **J. Behmanesh** (2017), Investigation of the performance and accuracy of multivariate time series models in predicting electrical conductivity and total dissolved solid values of the rivers of Urmia lake basin, *Journal of Advances in Environmental Health Research (JAEHR)*, 5:131-138, DOI:10.22102/jaehr.2017.74712.1006.

16- N. Azad, **J. Behmanesh**, V. Rezaverdinejad and H. Tayfeh Rezaie (2018), Climate change impacts modeling on winter wheat yield under full and deficit irrigation in Myandoab- Iran, *Archives of Agronomy and Soil Science*, (64), 731-746, <https://doi.org/10.1080/03650340.2017.1373187>.

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19- H. Rezaie, A. Jabbari, **J. Behmanesh**, B. Jarihani and B. Hessari, 2014, Investigating the relationship between physical characteristics of watersheds and nonlinearity of daily streamflow processes, *International Journal of Water*, 5(2), 26-34.

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21- **J. Behmanesh** and S. Ayashm, (2015), Rain-fall Run-off Modeling in the Turkey River Using Numerical and Regression Methods, *Journal of Fundamental and Applied Sciences*, 7(1) 91-102.

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- 24- M. Abdolahpour, M. Yasi, **J. Behmanesh**, M. Lal Kansal, 2012, Performance evaluation of horizontal sharp crested weirs in a channel bend, *Int. J. Hydrology Science and Technology*, **DOI**: <http://dx.doi.org/10.1504/IJHST.2012.052372>.
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- 26- N. Khanmohammadi, H. Rezaie, M. Montaseri and **J. Behmanesh**, 2017, The effect of different meteorological parameters on the temporal variations of reference evapotranspiration, *Environmental Earth Sciences*, **DOI**: 10.1007/s12665-017-6871-7.
- 27- N. Khanmohammadi, H. Rezaie, M. Montaseri and **J. Behmanesh**, 2017, The Effect of Temperature Adjustment on Reference Evapotranspiration and Reconnaissance Drought Index (RDI) in Iran, *Water Resources Management*, **DOI**: 10.1007/s11269-017-1793-4.
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- 29- N. Azad, **J. Behmanesh**, V. Rezaverdinejad, F. Abbasi and M. Navabian, 2018. Developing an optimization model in drip fertigation management to consider environmental issues and supply plant requirements, *Agricultural Water Management*, 208: 344-356. <https://doi.org/10.1016/j.agwat.2018.06.030>.
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- 33- A. Abbasi, K. Khalili, **J. Behmanesh** and A. Shirzad, 2019, Drought monitoring and prediction using SPEI index and gene expression programming model in the west of Urmia Lake, Theoretical and Applied Climatology, <https://doi.org/10.1007/s00704-019-02825-9>.
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- 36- N. Azad, **J. Behmanesh**, V. Rezaverdinejad, F. Abbasi and M. Navabian, 2020, An analysis of optimal fertigation implications in different soils on reducing environmental impacts of agricultural nitrate leaching, Scientific Reports, <https://doi.org/10.1038/s41598-020-64856-x>.
- 37- Z.Wang, N. Fathollahzadeh Attar, K. Khalili, **J. Behmanesh**, S.S. Band, A. Mousavi and K.W. Chau, 2020. Monthly streamflow prediction using a hybrid stochastic-deterministic approach for parsimonious non-linear time series modeling, Engineering Applications of Computational Fluid Mechanics, 14(1), 1351-1372, <https://doi.org/10.1080/19942060.2020.1830858>.
- 38- N. Khanmohammadi, H. Rezaie and **J. Behmanesh**, 2020, The effect of autocorrelation on the meteorological parameters trend, Meteorology and Atmospheric Physics, <https://doi.org/10.1007/s00703-020-00762-1>.
- 39- H. Faghih, **J. Behmanesh**, H. Rezaie and K. Khalili, 2020, Climate and rainfed wheat yield, Theoretical and Applied Climatology, <https://doi.org/10.1007/s00704-020-03478-9>.
- 40- A. Abbasi, K. Khalili, **J. Behmanesh** and A. Shirzad, 2021, Estimation of ARIMA model parameters for drought prediction using the genetic algorithm, Arabian Journal of Geosciences, <https://doi.org/10.1007/s12517-021-07140-0>.
- 41- H. Faghih, **J. Behmanesh**, H. Rezaie, and K. Khalili. 2021, Changes in Climatic Variables and Their Effect on Wheat Water Requirement in Urmia Lake Basin, journal of agricultural science and technology, 23(5): 1179-1191.
- 42- N. Khanmohammadi, H. Rezaie and **J. Behmanesh**, 2021, Investigation of Drought Trend on the Basis of the Best Obtained Drought Index, Water Resources Management, <https://doi.org/10.1007/s11269-022-03086-4>

- 43- S.S. Sharifi, V. Rezaverdinejad, V. Nourani and J. Behmanesh, 2022, Multi-time-step ahead daily global solar radiation forecasting: performance evaluation of wavelet-based artificial neural network model, *Meteorology and Atmospheric Physics*,
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<https://doi.org/10.1007/s00704-022-04104-6>
- 45- A. Amirashayeri, **J. Behmanesh**, V. Rezaverdinejad and N. Fathollahzadeh Attar, 2023, Evapotranspiration estimation using hybrid and intelligent methods, *Soft Computing*.
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- 47- N. Azad, **J. Behmanesh** and V. Rezaverdinejad, 2023, Long-term numerical modeling of nitrate leaching into groundwater under surface drip irrigation of corn, *Environmental Geochemistry and Health*, <https://doi.org/10.1007/s10653-023-01629-1>.
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<https://doi.org/10.1007/s00477-023-02503-3>
- 49-N. Azad, **J. Behmanesh**, V. Rezaverdinejad, H. Khodaverdiloo, S. E. Thompson, D. Mallants, T. B. Ramos and H. He, 2023, CNN deep learning performance in estimating nitrate uptake by maize and root zone losses under surface drip irrigation, *Journal of Hydrology*,
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- 50- F. Khashaei, J. Behmanesh, V. Rezaverdinejad and N. Azad, 2023, Field evaluation and numerical simulation of water and nitrate transport in subsurface drip irrigation of corn using HYDRUS-2D, *Irrigation Science*, <https://doi.org/10.1007/s00271-023-00890-7>.
- 51- M. Sharai, S. Samadianfard, **J. Behmanesh** and R. Prasad, 2023, Integration of fruit fly and firely optimization algorithm with support vector regression in estimating daily pan evaporation, *International Journal of Biometeorology*, <https://doi.org/10.1007/s00484-023-02586-1>

Publications in Conferences:

- 1-**Behmanesh Javad** and Salim Mezazigh ,” L’effet de la fumée de silice sur le comportement d’un sédiment contaminé/non contaminé et stabilisé à base de ciment et additifs” 2008, International Conference on Sediments Management, Lille, France.

2- **Behmanesh Javad** and Salim Mezazigh,” L’effet de la teneur en eau d’un sediment dragué sur le processus du traitement à base de ciment et additifs” 2008, Xèmes Journées Nationales Génie Côtier–Génie Civil, 14-16 octobre 2008, Sophia Antipolis, France.

3-Mahjoub, Banafsheh, Bayramali Mohammadnejad, **Javad Behmanesh** and Yousef Khalej, 2012, Numerical Modeling of Scouring Around Bridge Piers by FLUENT Model. International conference sediment transport modeling in hydrological watersheds and rivers, Turkey.

4-Verdinejad, Vahid. Hossien Rezaie, Behnam Ababaei, Hojat Ahmadi and **Javad Behmanesh**, 2012 Application SWAP Agrohydrological model to predict crop yield soil water and solute transport with shallow groundwater condition. EGE University, Turkey.

5-Ahmadi. Hojat, Hossien Rezaie, Vahid Verdinejad and **Javad Behmanesh**, 2012, Influence of deformation rate on permeability of soft clays, EGE university, Turkey.

6-Mottaghizadeh, Saba, Khalil Farhadi, Morteza Bahram and **Javad Behmanesh**, 2011, Removal of fluoride from aqueous solutions by using Zein/H₂SO₄ as biopolymer composite, 15th Iranian chemistry congress.

7-Bashrat Sina, **Javad Behmanesh** and Parviz Ahmadimoghadam, 2012, Calibration of water infiltration model in plant-soil by using laboratory measurements. 8th international soil science congress on land degradation and challenges in sustainable soil management. Turkey.

8-Nasrin Fathollahzadeh Attar, Keivan Khalili and **Javad Behmanesh**, 2019, On the Use of Emotional Artificial Neural Network (EANN) and Classification and Regression Tree Technique (CART) Models for Estimating of Minimum and Maximum Air Temperature in Selected Semi-Arid Stations of IRAN, IV International Scientific and Vocational Studies Congress-Engineering, Ankara, Turkey.