ÖZGEÇMİŞ

1. Adı Soyadı   **: ALI DANANDEH MEHR**
2. Doğum Tarihi/Yeri : 08.09.1979 / Tebriz-İran
3. Telefon   **: +90 242 2450361**

4. Öğrenim Durumu   :

Derece	Alan	Üniversite	Yıl
Lisans	İnşaat Mühendisliği	Tebriz Azad Üniversitesi, Tebriz, İran	2001
Yüksek Lisans	İnşaat Mühendisliği	Power and Water University of Technology (PWUT), Tahran, İran	2005
Doktora	İnşaat Mühendisliği	İstanbul Teknik Üniversitesi	2016 (Mayıs)
Postdoktora	Su Kaynakları Mühendisliği	Tebriz Üniversitesi, Tebriz, İran	2017 (Temmuz)
Postdoktora	Su Kaynakları Mühendisliği	Oulu Üniversitesi, Oulu, Finlandia	2022

5. Akademik Unvanlar

         Yardımcı Doçentlik Tarihi   : 2017 (Şubat- kasım): YDÜ/ Lefköşa, KKTC
         Yardımcı Doçentlik Tarihi   : 2017 Aralık- 2019Eylül: Antalya Bilim Üniversitesi
         Doçentlik Tarihi   : 2019 Nisan: T.C. Üniversitelerarası Kurul Başkanlığı
         Profesörlük Tarihi   : ----

6. Yönetilen Yüksek Lisans ve Doktora Tezleri

6.1. Yüksek Lisans Tezleri

10) Hassan ZirAbadi, 2024 (Bojnurd Üniversitesi), The effect of hydraulic parameters on carbon compunds in surface water <eş danışmanlığı- devam ediyor>
9) Iman Sardarian, 2024 (Ferdowsi University of Mashhad, Iran), Prediction of SPEI and SPI drought indices using time delay neural networks in different climatic conditions <co-advisor – in progress >
8) Hiba Eaeada Hameed Al Kubaisi, 2023-2024 (Antalya Bilim University), Drought modelling and forecasting using emerging deep learning techniques
7) Melike Çiftçi, 2023-2024 (Akdeniz University), Flood Routing along the Aksu River, Giresun <co-advisor>
6) Enes Hişam, 2021 (İstanbul Teknik Üniversitesi), Performance assessment of satellite-based rainfall products over Akdeniz Basin <eş danışmanlığı>
5) Erkin TAŞ, 2021 (Akdeniz Üniversitesi), Deniz seviyesi değişimlerinin meteorolojik faktörler kullanılarak tahmin edilmesi <eş danışmanlığı>
4) Esma KALE, 2021 (Antalya Bilim Üniversitesi), Drought forecasting using decision tree <eş danışmanlığı>
3) Bahareh Karimi, 2018, (University College of Science and Technology), Monthly rainfall prediction using standard and gene-expression programming and comparing with ARIMA model <eş danışmanlığı>
2) Saeed Abutalebi, 2018, (University College of Science and Technology), Monthly rainfall prediction using standard and multi-gene genetic programming and comparing with ARIMA model <eş. danışmanlığı>
1) Yunes Musavi, 2018, (University College of Science and Technology), Monthly rainfall prediction using standard and linear genetic programming and comparing with ARIMA model <eş. danışmanlığı>

6.2. Doktora Tezleri

2) Dilayda SOYLU PEKPOSTALCI, 2020 (Akdeniz Üniversitesi -tez aşamasında), İklim Değişikliğinin Kuraklığa Etkisi: Akdeniz Bölgesi Örneğ. <eş danışmanlığı- devem ediyor>

1) Aidin Rahmani (Islamic Azad Univ., İran), Climate changes impact on floodway: a case study on Shahrchi River<eş danışmanlığı>

7. Yayınlar

7.1. Uluslararası hakemli dergilerde yayınlanan makaleler (SCI/SCI-E/ESCI)

84. Danandeh Mehr, A., Shadkani, S., Abualigah, L., Safari, M. J. S., & Migdady, H. (2024). A novel stabilized artificial neural network model enhanced by variational mode decomposing. *Heliyon*, 10, e34142.

83. Partani, S., Danandeh Mehr, A., Bostanmaneshrad, F., et al. (2024). Determining the main driver of hypoxia potential in freshwater inland lakes. *Journal of Cleaner Production,* 458,142521.

82. Lee, S., Moriasi, D. N., Fortuna, A.M., Mirchi, A., Danandeh Mehr, A., Chu, M.L., Guzman, J.A. & Starks, P. (2024). Modeling the impact of measured and projected climate and management systems on agricultural fields: Surface runoff, soil moisture, and soil erosion. *Journal of Environmental Quality*, 1-13, DOI: 10.1002/jeq2.20565.

81. Lee, S., Moriasi, D. N., Danandeh Mehr, A., & Mirchi, A. (2024). Sensitivity of Standardized Precipitation and Evapotranspiration Index (SPEI) to the choice of SPEI probability distribution and evapotranspiration method. *Journal of Hydrology: Regional Studies*, 53, 101761.

80. Çelebi, A., Şengörür B., Torabi Haghighi, A., & Danandeh Mehr, A. (2024) Riparian Soil Pollution Caused by Sediment Metal Transport: Seasonal Changes and Ecological Risk Assessment. *Toxics*, 12(3):213.

79. Partani, S., Danandeh Mehr, A., & Jafari, A. (2024). Enhancing nutrient absorption through the influence of mangrove ecosystem on flow rate and retention time in salt marshes. *Science of The Total Environment*, 171518.

78. Modaresi, F., Danandeh Mehr, A. (2024). A novel approach to predictor selection among large-scale climate indices for seasonal rainfall forecasting in small catchments. *Hydrological Sciences Journal*, 1–18. https://doi.org/10.1080/02626667.2024.2313572

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76. Salamttalab, M. M., Parmas, B., Mustafa Alee, H., Hooshyaripor, F., Danandeh Mehr, A., Vosoughifar, H., ... & Noori, R. (2023). A Finite Volume Method for a 2D Dam-Break Simulation on a Wet Bed Using a Modified HLLC Scheme. *Water*, 15(21), 3841.

75. Partani, S., Danandeh Mehr, A., Maghrebi, M., Mokhtari, R., Nachtnebel, H. P., Taniwaki, R. H., & Arzhangi, A. (2023). A new spatial estimation model and source apportionment of aliphatic hydrocarbons in coastal surface sediments of the Nayband Bay, Persian Gulf. *Science of The Total Environment*, 166746.

74. Achite, M., Gul, E., Elshaboury, N., Jehanzaib, M., Mohammadi, B., & Mehr, A. D. (2023). An improved adaptive neuro-fuzzy inference system for hydrological drought prediction in Algeria. *Physics and Chemistry of the Earth, Parts A/B/C*, 131, 103451.

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71. Soylu Pekpostalci, D, Tur, R., Danandeh Mehr, A. (2023) Spatiotemporal Variations of Meteorological Drought across Mediterranean Region of Türkiye. *Pure and Applied Geophysics*, 180, 3089–3104.

70. Haghighi, A. T., Akbari, M., Noori, R., Danandeh Mehr, A., Gohari, A., Sönmez, M. E., ... & Kløve, B. (2023).

The impact of Turkey's water resources development on the flow regime of the Tigris River in Iraq. *Journal of Hydrology: Regional Studies*, 48, 101454.

69. Danandeh Mehr, A. (2023). A Gene-Random Forest Model for Meteorological Drought Prediction. *Pure and Applied Geophysics*, 1-11.

68. Mustafa Alee, M., Danandeh Mehr, A., Akdegirmen, O., & Nourani, V. (2023). Drought Assessment across Erbil Using Satellite Products. *Sustainability*, 15(8), 6687.

67. Soylu Pekpostalci, D, Tur, R., Danandeh Mehr, A., Vazifekhah Ghaffari, M.A., Dąbrowska, D., Nourani, V. (2023) Drought Monitoring and Forecasting across Turkey: A Contemporary Review. Sustainability 2023, 15, 6080. https://doi.org/10.3390/su15076080

66. Danandeh Mehr, A., Marttila, H., Torabi Haghighi, A. T., Croghan, D., & Fatohllahzadeh Attar, N. (2023). GTAR: a new ensemble evolutionary autoregressive approach to model dissolved organic carbon. *Journal of Water Supply: Research and Technology-Aqua*. doi: 10.2166/aqua.2023.235

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60. Danandeh Mehr, A., Erkinaro, J., Hjort, J., Haghighi, A. T., Ahrari, A., Korpisaari, M., ... & Marttila, H. (2022). Factors affecting the presence of Arctic charr in streams based on a jittered binary genetic programming model. *Ecological Indicators*, 142, 109203.

59. Gholizadeh, R., Yılmaz, H., & Danandeh Mehr, A. (2022). A new binary genetic programming approach to design public transportation systems according to transit-oriented development criteria. *Scientia Iranica*, (in press).

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57. Tao, H., Hameed, M. M., Marhoon, H. A., Zounemat-Kermani, M., Salim, H., Sungwon, K., ... & Yaseen, Z. M. (2022). Groundwater Level Prediction using Machine Learning Models: A Comprehensive Review. Neurocomputing, 489, 271-308.

56. Gholizadeh, R., Yılmaz, H., & Danandeh Mehr, A. (2022). Multitemporal meteorological drought forecasting using Bat-ELM. *Acta Geophysica*, 70(2), 917-927.

55. Danandeh Mehr, A., Torabi Haghighi, A., Jabarnejad, M., Safari, M.J.S., Nourani, V. (2022). A new evolutionary hybrid random forest model for SPEI Forecasting. *Water* 14, 755. https://doi.org/10.3390/w14050755

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52. Tur, R., Tas, E., Torabi Haghighi, & A., Danandeh Mehr, A., (2021). Sea Level Prediction Using Machine Learning. Water 13, 3566. https://doi.org/10.3390/w13243566

51. Gul, E., Safari, M. J. S., Torabi Haghighi, A., Danandeh Mehr, A., (2021). Sediment transport modeling in nondeposition with clean bed condition using different tree-based algorithms. *PLoS ONE* 16(10): e0258125. https://doi.org/10.1371/journal.pone.0258125

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48. Danandeh Mehr, A., Hrnjica, B., Bonacci, & Torabi Haghighi, A. (2021) Innovative and successive average trend analysis of temperature and precipitation in Osijek, Croatia. *Theoretical and Applied Climatology* 145, 875–890.

47. Danandeh Mehr, A. (2021). Drought classification using gradient boosting decision tree. *Acta Geophysica*, 69, 909 – 918.

46. Danandeh Mehr A., Gandomi, A.H. (2021). MSGP-LASSO: an improved multi-stage genetic programming model for streamflow prediction. *Information Sciences*, 561, 181-195.

45. Danandeh Mehr A., Safari, M. J. S., Nourani V. (2021). Wavelet packet-genetic programming: a new model for meteorological drought forecasting. *Teknik Dergi*, 32 (4). 11029-11050.

44. Alizamir, M., Heddam, S., Kim, S., & Danandeh Mehr, A. (2020). On the implementation of a novel data-intelligence model based on extreme learning machine optimized by bat algorithm for estimating daily chlorophyll-a concentration: case studies of river and lake in USA. *Journal of Cleaner Production, 124868.*

43. Modabberi, A., Noori, R., Madani, K., Ehsani, A.H., Danandeh Mehr, A., Hooshyaripor, F., & Kløve B. (2020) Caspian Sea is eutrophying: The alarming message of satellite data. *Environmental Research Letters*, 15, 124047.

42. Danandeh Mehr A., Tur R., Çalışkan C., & Tas E. (2020). A novel fuzzy random forest model for meteorological drought classification and prediction in ungauged catchments. *Pure and Applied Geophysics*, 177, 5993–6006.

41. Danandeh Mehr A., Vaheddoost, B., & Mohammadi, B. (2020). ENN-SA: A novel neuro-annealing model for multi-station drought prediction. *Computers & Geosciences*, 145, 104622

40. Danandeh Mehr A. (2020). Seasonal rainfall hindcasting using ensemble multi-stage genetic programming. *Theoretical and Applied Climatology*. 143(1), 461-472

39. Danandeh Mehr A. (2020). An ensemble genetic programming model for seasonal precipitation forecasting. *SN Applied Science* 2:1821. https://doi.org/10.1007/s42452-020-03625-x

38. Mohammadi, B., Vaheddoost, B., & Danandeh Mehr A. (2020). A spatiotemporal teleconnection study between Peruvian precipitation and oceanic oscillations. *Quaternary International*. 565, 1-11.

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36. Danandeh Mehr A., Tas, E., Kahya E. (2020). Risk assessment of fuel supply pipelines: The Kalecik Power Plant Case Study. *Journal of Pipeline Systems - Engineering and Practice*. 11(4): 05020005.

35. Rahmani-Rezaeieh A., Mohammadi, M., Danandeh Mehr A. (2020). Climate change impacts on floodway and floodway fringe: a case study in Shahrchay River Basin, Iran. *Arabian Journal of Geosciences*. 13:12 (494). https://doi.org/10.1007/s12517-020-05444-1

34. Afshar, M.H., Şorman, A., Tosunoğlu, F. Bulut B., Yilmaz M.T., Danandeh Mehr A. (2020). Climate change impact assessment on mild and extreme drought events using copulas over Ankara, Turkey. *Theoretical and Applied Climatology*, 141(3-4)1045-1055.

33. Mehdizadeh, S., Ahmadi F., Danandeh Mehr A., Safari, M. J. S. (2020). Drought modeling using classic time series and hybrid wavelet-gene expression programming models. *Journal of Hydrology*, 587, 125017.

32. Safari, M. J. S., Rahimzadeh Arashloo, S., Danandeh Mehr A., (2020). Rainfall-runoff modeling through regression in the reproducing kernel Hilbert space algorithm. *Journal of Hydrology*, 587, 125014.

31. Sheikh Khozani, Z., Safari, M. J. S., Danandeh Mehr, A., & Wan Mohtar, W. H. M. (2020). An ensemble genetic programming approach to develop incipient sediment motion models in rectangular channels. *Journal of Hydrology*, 584, 124753.

30. Danandeh Mehr A., Safari, M. J. S., (2020). Multiple genetic programming: a new methodology to improve genetic-based explicit monthly rainfall models. *Environmental Modeling and Assessment*, 192:25.

29. Danandeh Mehr A., Bagheri, F., Safari, M. J. S., (2020). Electrical energy demand prediction: a comparison between genetic programming and decision tree. *Gazi University Journal of Science*, 33(1), 62-72.

28. Ebtehaj, I., Bonakdari, H., Safari, M. J. S., Gharabaghi, B., Zaji, A. H., Madavar, H. R., ... & Danandeh Mehr, A. (2020). Combination of sensitivity and uncertainty analyses for sediment transport modeling in sewer pipes. *International Journal of Sediment Research*, 35 (2), 157-170.

27. Danandeh Mehr, A., Vaheddoost, B. (2020). Identification of the trends associated with the SPI and SPEI indices in Ankara, Turkey. *Theoretical and Applied Climatology*, 139(3-4), 1531-1542.

26. Danandeh Mehr A., Safari, M. J. S., (2020). Application of soft computing techniques for particle Froude number estimation in sewer pipes. *Journal of Pipeline Systems - Engineering and Practice* 11(2): 04020002.

25. Rahmani-Rezaeieh A, Mohammadi, M., Danandeh Mehr A. (2020). Ensemble gene expression programming: a new approach for evolution of parsimonious streamflow forecasting model. *Theoretical and Applied Climatology*, 139 (1-2), 549-564.

24. Danandeh Mehr A., Sorman, A.U., Kahya E., Hesami Afshar, M. (2020). Climate change impacts on meteorological drought using SPI and SPEI: case study of Ankara, Turkey. *Hydrological Sciences Journal* 65(2), 254-268.

23. Hrnjica, B., Danandeh Mehr, A. Behrem, Š., and Ağıralioğlu N. (2019). Genetic Programming for Turbidity Prediction: Hourly and Monthly Scenarios. *Pamukkale University Journal of Engineering Sciences*, 25 (8), 992-997.

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21. Danandeh Mehr, A., Jabarnejad, M., and Nourani, V. (2019). Pareto-optimal MPSA-MGGP: a new gene-annealing model for monthly rainfall forecasting. *Journal of Hydrology*, 571, 406-415.

20. Danandeh Mehr, Nourani, V., Karimi Khosroshahi V., and Ghorbani, M.A. (2019). A hybrid support vector regression–firefly model for monthly rainfall forecasting. *International Journal of Environmental Science and Technology*, 16, 335–346.

19. Danandeh Mehr A., Nourani, V., Kahya E., Hrnjica B., Sattar, AMA., Yaseen ZM. (2018). Genetic programming in water resources engineering: A state-of the-art review. *Journal of Hydrology*, 566, 643-667.

18. Danandeh Mehr A. (2018). An improved gene expression programming model for streamflow forecasting in intermittent streams. *Journal of Hydrology*, 563, 669-678.

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16. Safari, M. J. S., and Danandeh Mehr A. (2018). Multigene genetic programming for sediment transport modeling in sewers at non-deposition with deposited bed condition. *International journal of sediment research* 33, 262–270

15. Danandeh Mehr, A. and Nourani, V. (2018). Season algorithm-multigene genetic programming: A new approach

for rainfall-runoff modelling. Water Resources Management, 32 (8), 2665-2679.

14. Nourani, V., Danandeh Mehr, A., and Azad, N. (2018). Trend analysis of hydroclimatological variables in Urmia Lake basin using hybrid wavelet Mann–Kendall and Şen tests. *Environmental Earth Sciences*, 77 (5), 207.

13. Olyaie, E. Zare Abyaneh, H. and Danandeh Mehr, A. (2017). A comparative analysis among computational intelligence techniques for dissolved oxygen prediction in Delaware River. *Geoscience Frontiers* 8, 517-527.

12. Danandeh Mehr, A. Nourani, V., Hrnjica B. and Molajou A. (2017). A binary genetic programing model for teleconnection identification between global sea surface temperature and local maximum monthly rainfall events. *Journal of Hydrology*, 555, 397-506.

11. Yaseen, Z. M., Ebtehaj, I., Bonakdari, H., Deo, R. C., Danandeh Mehr, A., Mohtar, W. H. M. W., ... & Singh, V. P. (2017). Novel approach for streamflow forecasting using a hybrid ANFIS-FFA model. Journal of Hydrology, 554, 263-276.

10. Danandeh Mehr, A. and Kahya, E. (2017). A Pareto-optimal moving average multigene genetic programming model for daily streamflow prediction. *Journal of Hydrology*, 549, 603-615.

9. Danandeh Mehr, A. and Nourani, V. (2017). A Pareto-optimal moving average-multigene genetic programming model for rainfall-runoff modelling. *Environmental Modelling and Software*, 92: 239-251.

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7. Danandeh Mehr, A. and Kahya, E. (2017). Grid-based performance evaluation of GCM-RCM combinations for rainfall reproduction. *Theoretical and Applied Climatology* 129 (1): 47-57.

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5. Danandeh Mehr, A., Kahya, E. and Özger M. (2014). A gene-wavelet model for long lead-time drought forecasting. *Journal of Hydrology* 517, 691-699.

4. Danandeh Mehr, A., Kahya, E. and Yerdelen, C. (2014). Linear genetic programming application for successive-station monthly streamflow prediction. *Computers & Geosciences* 70, 63-72.

3. Uyumaz, A., Danandeh Mehr A., Kahya E. and Erdem H. (2014) Rectangular side weirs discharge coefficient estimation in circular channels using linear genetic programming approach. *Journal of Hydroinformatics* 16 (6), 1318-1330.

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7.2. Uluslararası diğer hakemli dergilerde yayınlanan makaleler

10. Darabi, H., Danandeh Mehr, A., Kum, G., Sönmez, M. E., Dumitrache, C. A., Diani, K., ... & Torabi Haghighi, A. (2023). Hydroclimatic Trends and Drought Risk Assessment in the Ceyhan River Basin: Insights from SPI and STI Indices. Hydrology, 10(8), 157.

9. Danandeh Mehr, A. and Akdegirmen, O. (2021). Estimation of Urban Imperviousness and its Impacts on Flashfloods in Gazipaşa, Turkey. Knowledge-Based Engineering and Sciences, 2(1), 9-17.

8. Tas, E., Agiralioglu, N., Danandeh Mehr, A., Tur, R. (2020). Energy Loss Investigation in Submarine Pipelines: Case Study of Cyprus Water Supply Project. Advance Researches in Civil Engineering, 2(2), 31-44. doi: 10.30469/arce.2020.108582

7. Karimi, B., Safari, M.J.S, Danandeh Mehr, A. and Mohammadi, M.A. (2019). Monthly rainfall prediction using ARIMA and gene expression programming: a case study in Urmia, Iran. Online Journal of Engineering Sciences and Technologies. 2(3), 8-14.

6. Danandeh Mehr, A. and Şorman, A.Ü. (2018). Streamflow and sediment load prediction using linear genetic programming. Uludağ University Journal of the Faculty of Engineering 23(2), 323-332.

5. Danandeh Mehr, A. (2018). Month ahead rainfall forecasting using gene expression programming. American Journal of Earth and Environmental Sciences 1(2), 63-70.

4. Danandeh Mehr, A. and Demirel, M.C. (2016). On the calibration of multi-gene genetic programming to simulate low flows in the Moselle River. Uludağ University Journal of the Faculty of Engineering 21 (2), 365-376.

3. Imanshoar, F. Hassanzadeh Y., Alami, M.T. and Danandeh Mehr, A (2013). Uncertainty analysis for determining density of deposits in dams' reservoirs. Water and soil Science (Agricultural Science); 23(1):27-37. (in Farsi)

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7.3. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (*Proceedings*) basılan bildiriler

26. Lee, S., Moriasi, DN, Fortuna, AM, Mirchi, A., **Danandeh Mehr, A**, Chu, M., Guzman, J...2023, Modeling the Impacts of Climate Change and Management Practices on Agricultural Fields: Surface Runoff and Soil Moisture Content. ASA, CSSA, SSSA International Annual Meeting

25. Hrnjica. B., **Danandeh Mehr**, **A.,** E. Jakupović, A. Crnkić and R. Hasanagić, "Application of Deep Learning Neural Networks for Nitrate Prediction in the Klokot River, Bosnia and Herzegovina," 2021. 7th International Conference on Control, Instrumentation and Automation (ICCIA), 2021, pp. 1-6, doi: 10.1109/ICCIA52082.2021.9403565.

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13. **A. Danandeh Mehr,** 2018. Gene Expression Programming for Monthly Streamflow Forecasting at Intermittent Rivers. International Water and Environment Congress (SUÇEV 2018), March 22-24, Bursa, Turkey.

12. Şorman, A.Ü., **A. Danandeh Mehr,** S. J. Hadi, 2018. Study on spatial-temporal variations of Meteorological-Agricultural droughts in Turkey. Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XLII-3/W4, 483-490, GeoInformation for Disaster Management Conference (Gi4DM 2018), March 19-21 Istanbul, Turkey.

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9. Kahya, E., **A. Danandeh Mehr**, D. Bozkurt, M. Özger and D.Z. Şeker, 2014. Evaluation of the Performance of GCMs Driven RCM Outputs for Rainfall Prediction over Rize Catchment. 11th International Congress on Advances in Civil Engineering (ACE 2014), Istanbul, Turkey.

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6. **Danandeh Mehr, A.** Jafari, G. Soltani, Sh. and M. Mohammadpour. 2011, "Iran's National Plan for River Training And Flood Fringe Determination". Abstract of the paper accepted to be presented at the International Conference on the Status and Future of the World's Large Rivers, Vienna. Austria. April 2011.

5. Sedighi K. **Danandeh Mehr A.**, and Zarghami M. 2011, "Flood Fringe Determination Based On Multi Criteria Weighting Method, Case Study: Ajichai River". Proceedings of 9th International Iranian civil engineering Congress, Isfahan University of Technology, Isfahan, Iran, (in Farsi).

4. **Danandeh Mehr, A.** Sarraf, B. S. and M. R. M. Tabatabai. 2010, "Genetic Programming Application in Stream Flow and Sediment Prediction". Proceedings of 10th Symposium on Stochastic Hydraulics & Fifth International Conference on Water Resources and Environment Research, Quebec City, Canada, 5th - 7th of July 2010

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7.4. Yazılan uluslararası kitaplar veya kitaplarda bölümler

7. Salim Heddam, Sungwon Kim, **Ali Danandeh Mehr**, Mohammad Zounemat-Kermani, Anurag Malik, Ahmed Elbeltagi, Ozgur Kisi, (2022) Predicting dissolved oxygen concentration in river using new advanced machines learning: Long-short term memory (LSTM) deep learning, Editor(s): Hamid Reza Pourghasemi, Computers in Earth and Environmental Sciences, Elsevier.

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4. Tur, R. Uzunsakal L, **Danandeh Mehr, A.** (2020). Coastline change determination using UAV technology: A case study along Konyaaltı coast, Antalya, Turkey. In Drones in Smart-Cities, Security and Performance (1st Edition). (pp. 123-140). Elsevier

3. Hrnjica, B., **Danandeh Mehr, A.** (2019). Energy Demand Forecasting Using Deep Learning. In Smart Cities, Performability, Cognition, & Security (pp. 71-103). Springer, Nature Switzerland AG.

2. Nourani, V., Molajou, A., Najafi, H., **Danandeh Mehr, A.** (2019). Emotional ANN (EANN): A New Generation of Neural Networks for Hydrological Modeling in IoT. In Artificial Intelligence in IoT (pp. 45-61). Springer, Cham.

1. Hrnjica, B., **A. Danandeh Mehr.** (2019). "*Optimized Genetic Programming Applications: Emerging Research and Opportunities*". (pp. 1-310). Hershey, PA: IGI Global. doi: 10.4018/978-1-5225-6005-0

7.5. Ulusal hakemli dergilerde yayınlanan makaleler

3. Imanshoar, F. Hassanzadeh Y., Alami, M.T. and **Danandeh Mehr, A** (2013) *Uncertainty analysis for determining density of deposits in dams' reservoirs.* Water and soil Science (Agricultural Science); 23(1):27-37.

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7.6. Ulusal bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler

14. Özger, M., **A. Danandeh Mehr,** and E. Kahya, 2013. Bulanık Mantıkla Taşkın Risk Yönetimi: İran Mehranrood Nehri Örneği. Taşkın ve Heyelan Sempozyumu, 325-336.Trabzon, Türkiye.

13. **Danandeh Mehr, A.** and F. Imanshoar. 2013, "RESCDAM Method Application For Estimating Loss Of Life Caused By Dam Break (Case Study: Shahid Madani Dam, Iran)". Proceedings of 5th national conference on Iran water resources management, Power and Water University of Technology, Tehran, Iran, February 2011.

12. **Danandeh Mehr, A.** Salimi, M., and Sh. Soltani. 2011, "Performance Evaluation of DLSRS Model In

Quantitative Fringe Determination of Mountainous Rivers, Case Study, the Province Of Khorasan E Razavi". Proceedings of 2nd Iranian national conference on applied researches in water resources, Ministry of Energy, Zanjan, Iran, 18th - 19th May 2011.

11. **Danandeh Mehr, A.** Jafari, G. and Sh. Soltani. 2011, "Investigation on Managerial and Legal Challenges in qualitative protection of Rivers". Proceedings of Iranian national water congress with focus on clean water, Power and Water University of Technology, Tehran, Iran, 2nd – 3rd March 2011.

10. **Danandeh Mehr, A.** and Sh. Soltani. 2011, "Introducing and Evaluation of Iran's National Policy for Quantitative Protection of Rivers in Iran". Proceedings of 4th Iran water resources management Conference, Amirkabir University of technology, Tehran, Iran, 3th - 4th May 2011.

9. Yaghoobi, A. **Danandeh Mehr, A.** and M. M. Vanolia. 2010, "Investigation of the Effect of Tidal Flows on the Floodway and Floodway Fringe Determination of Coastal Rivers". Proceedings of 1st Iranian national congress on costal water resources management, Sari Agricultural Sciences and Natural Resources University, Sari, Iran, 8th - 9th Dec, 2010.

8. **Danandeh Mehr, A.** and Sh. Soltani. 2009. "Application of Artificial Intelligence on Daily Discharge Prediction". Proceedings of 8th Iranian hydraulic Conference, Tehran University, Tehran, Iran, 14th - 15th Dec. 2009.

7. Jahangir, I. and A**. Danandeh Mehr** 2007 "Flood Damage Predicting before Flood Event". Invited speaker, Runoff and urban floods management workshop. Shiraz, Iran. 16th-17th Oct.

6. **Danandeh Mehr, A.** 2007, "HEC-HMS Application on Kor River Floods Routing on Mollasadra Dam". Proceedings of 1th hydraulic models in water engineering conference, Islamic Azad University, Marvdasht branch, Marvdasht, Iran, 2007

5. **Danandeh Mehr, A.,** M. M. Vanolia and M. R. M. Tabatabai. 2005. "Flood Control Structures Optimization in Urban Catchments". Proceedings of 5th Iranian hydraulic conference, Shahid Bahonar University of Kerman, Kerman, Iran, 8th - 10th Nov.

4. **Danandeh Mehr, A**. Shishegar, M. and E. Malekabbaslou. 2005. "Application of HEC-HMS in Flood Control of Tabriz River". Proceedings of 12th Students conference on civil engineering, Iran University of Science and Technology, Tehran, Iran, 21st - 23rd Dec.

3. **Danandeh Mehr, A.** 2004, "A Comparison of Structural Methods Used for the Control of Urban Floods and Selection of Optimal Structure". Proceedings of 11th students' conference on civil engineering, Hormozgan University, Bandar Abbas, Iran.

2. **Danandeh Mehr, A.** 2003. "HEC-RAS Application in Flood Damages Measurement". Proceedings of 4th Students seminar on civil engineering, Power and Water University of technology, Tehran, Iran, 2003

1. **Danandeh Mehr, A.** 2003. "Evaluation and Measurement of Flood Damages". Proceedings of 10th Civil Engineering Students Conference, Amir Kabir University of technology, Tehran, Iran, 21st - 23rd Oct. 2003

7.7. Diğer yayınlar

Tezler

2. **Danandeh Mehr, A.,** 2016: "*Climate change impacts on catchment-scale extreme rainfall variability*" Doktora tezi, İstanbul Teknik Üniversitesi (İTÜ), İstanbul, Türkiye.

1. **Danandeh Mehr, A.,** 2005: "*Optimization of Flood Control Structures in Urban Catchments*" Yüksek Lisans Tezi (Farsça), Power and Water University of Technology, Tehran, Iran.

Ulusal Kitap

6. Nourani, V. & **A. Danandeh Mehr.** 2011. "*Advanced Mathematics for Civil Engineers*". Javedankherad Publishers, ISBN 978 964 6030 75 6. (Farsça)

5. Niksefat, GH. R. & A. **Danandeh Mehr.** 2010. "*Principles of River Engineering*". Tehran Dibagran artistic and cultural institute, ISBN 978 964 354 996 1. (Farsça)

4. **Danandeh Mehr. A.** 2011. "*Hydraulics*". Tehran Dibagran artistic and cultural institute, First edition 2008. ISBN 978 964 354 924 4. (Republished in 2014) (Farsça)

3. **Danandeh Mehr. A.** 2005, "*Mechanics of Fluids and Open Channel Hydraulics (Test Book)".* Published by Tehran Dibagran artistic and cultural institute, 2005, ISBN 964 354 631 4. (Farsça)

2. Mousavi Nadushani. S. and **A. Danandeh Mehr** "*Hydrologic Modelling System (HEC-HMS)*". 2005, published by Tehran Dibagran artistic and cultural institute, 2005, ISBN 964 354 554 7. (Farsça)

1. Vafaipoor, R. & **A. Danandeh Mehr.** 2003, "*Fluid Mechanics–Teaching and Testing*". Published by Elmiran, 2003, ISBN 964 6531 30 X. (Republished in 2005, 2006 and 2008) (Farsça)

Diğer

2. **Danandeh Mehr, A.** Jafari G. and Soltani, S. (2010) *Quantitative floodway fringe determination of rivers via multiple attribute decision making and subjective rating methods*. Research Bulletin pp. 90-95. Iran Water Resource Management Company. Iran.

1. **Danandeh Mehr, A.**, Jaidari S. and Soltani, S. (2009) *Impact of Mollasadra Dam on Kor River floods. Magazine of Payam e niroo* (170) 64-69. Ministry of Energy. Iran.

8. Projeler

8.1. Araştırma Projelerı:

4. Ke, C. Nourani, V., Danandeh Mehr, A. ve diğ., 2022-2025: Uzaktan algılama, büyük veri, ve yapay zeka ile Batı Asya'daki buzul göllerindeki değişimlerin izlenmesi, Nanjing Üniversitesinde, NTU Diploma Numarası DL2021140001L, China MOST Projesi.

3. Lisans oğrencileri bitirme projesi, TÜBİTAK 2209/A programı: Antalya Lara Atık su arıtma tesisinden elde edilen su ile Beton Yapılması, - (2019).

2. Kahya, E. Özger, M., **Danandeh Mehr, A.** ve diğ., 2012-2015: Rize il sınırlarında bulunan su havzalarının taşkın risk tayini: İklim ve hidrolojik modellere göre mevcut ve gelecekteki durum, ÇAYDAG 112Y204 nolu TÜBİTAK Projesi.

1. Aidi, Z., **Danandeh Mehr, A.** Darvishi E. Niksokhan MH. 2012-2013. Development of DLSRS model for flood fringe determination using regional estimation of 25-year discharge. RIV6-90061 nolu İran Devlet Su İşleri Projesi.

8.2. Proje/Teknik Raporlar:

2. AKSA Kıyı Kirliliği Risk Analizi. İTÜ-KKTC AR-GE Projesi Teknik Rapor (2016)

1. Giresun Aksu Nehri Taşkın Analizi. İTÜ AR-GE Projesi Teknik Raporu (2014)

9. İdari Görevler

2020 – 2021(Eylül)	**Müdür Yrd.,** Lisansüstü Eğitim Enstitüsü, Antalya Bilim Üniversitesi, Antalya, Türkiye.
2017 (Şubat-Eylül)	**Bölüm Başkan Yrd.,** İnşaat Mühendisliği Bölümü, Yakın Doğu Üniversitesi, Lefköşa, KKTC.
2014-2017	**Yapı ve Teknik İşler Müdürü** İstanbul Teknik Üniversitesi, İTÜ Kuzey Kıbrıs Kampüsü, Famagusta, KKTC.
2011-2012	**Öğretim Görevlisi,** Sürekli Eğitim Merkezi

Power and Water University of Technology (PWUT), Tahran, İran

| 2010-2011 | **Öğretim Görevlisi,** İnşaat Mühendisliği Bölümü
Aghahan-Niroo Meslek yüksekokulu. Tahran, İran |

| 2009-2012 | **Akarsu Mühendisi,** Akarsular ve kıyı Mühendisliği Bölümü
Devlet Su İşleri Genel Müdürlüğü, Tahran, İran |

10. Bilimsel ve Mesleki Kuruluşlara Üyelikleri

11. Ödüller

2019-2022	**%2 Bilim Adamı** (Top 2% Scientist-Scopus), Mühendislik Alanında
2019	**En iyi bildiri sunumu ödülü** (1. Uluslararası ve 4. Ulusal İran drenaj ve sulama Kongeresi, Urmia Üniversitesi, İran)
2019	**En başarılı Araştırmacı ödülü** (Antalya Bilim Üniversitesi)
2018	**En başarılı Araştırmacı ödülü** (Antalya Bilim Üniversitesi)
2017	**Genç Araştırmacı ödülü** (Yakın Doğu Üniversitesi)
2017	**Publons Peer Review ödülü**
2016	**En başarılı doktora tezi ödülü (**İstanbul Teknik Üniversitesi**)**
2010	**Sel yatağı saçak belirleme süreci patenti** (Şirketler ve Endüstri Mülkiyet Tescil Genel Dairesi , İran)
2004	**En başarılı bildiri ödülü (**11. İnşaat Mühendisligi Örençileri konferansında 3. rank, İran)

12. Son iki yılda verdiği lisans ve lisansüstü düzeyindeki dersler

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	
2020-2021	Güz	Fluid Mechanics	3	1	45
2020-2021	Güz	Hydrology	3		59
2020-2021	İlkbahar	Hydraulic Engineering	3		45
2020-2021	İlkbahar	Environmental Engineering	3		40
2023-2024	Güz	Fluid Mechanics	3	1	19
2023-2024	Güz	Hydrology	3		16
2023-2024	İlkbahar	Hydraulic Engineering	3		16
2023-2024	İlkbahar	Environmental Engineering	3		17

13. Diğer verdiği/verebileceği dersler

Water Recourses Engineering, Advanced Hydrology (YL), Special Topics in Hydrology (Ph.D.). Soft computing in Civil Engineering (YL)