

EK-3

ÖZGEÇMİŞ

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4. Öğrenim Durumu :

Derece	Alan	Üniversite	Yıl
Lisans	İnşaat Mühendisliği	Tebriz Azad Üniversitesi, Tebriz, İran	2001
Yüksek Lisans	İnşaat Mühendisliği	Güç ve Su Teknik Üniversitesi, 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- 2019 Eylül: Antalya Bilim Üniversitesi
Doçentlik Tarihi : 2019 Nisan: T.C. Üniversitelerarası Kurul Başkanlığı
Profesörlük Tarihi : 2024 (01.10.2024): Antalya Bilim Üniversitesi

6. Yönetilen Yüksek Lisans ve Doktora Tezleri

6.1. Yüksek Lisans Tezleri

12) Şehriban Tuğçe Buruzan, 2024-2025 (Antalya Bilim University), Antalya’da Yağmur Suyu Hasadı İçin Optimum Depolama Boyutlandırması: Hidrolojik Simülasyon ve Ekonomik Değerlendirme <devem ediyor>

11) Nooria Soltani, 2024-2025 (Antalya Bilim University), Advanced genetic programming models for precipitation forecasting.

10) Hassan ZirAbadi, 2024 (Bojnurd Üniversitesi), The effect of hydraulic parameters on carbon compounds 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 < eş danışmanlığı>

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 Üniversitesi), Flood Routing along the Aksu River, Giresun <eş danışmanlığı>

6) Enes Hişam, 2021 (İstanbul Teknik Üniversitesi), Performance assessment of satellite-based rainfall products over Akdeniz Basın <eş danışmanlığı>

5) Erkin TAŞ, 2021 (Akdeniz Üniversitesi), Deniz seviyesi değişimlerinin meteorolojik faktörler kullanılarak tahmin edilmesi <eş danışmanlığı>

4) Esmâ 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, 2020-2024 (Akdeniz Üniversitesi -tez aşamasında), İklim Değişikliğinin Kuraklığa Etkisi: Akdeniz Bölgesi Örneğ. <eş. danışmanlığı >

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)

106. Danandeh Mehr, A., Ajith, A., Sankaran, A., Maghrebi, M., Tur, R., Saji, A. S., Nizar, A., & Pottayil, M. N. (2025). A Time-Dependent Intrinsic Correlation Analysis to Identify Teleconnection Between Climatic Oscillations and Extreme Climatic Indices Across the Southern Indian Peninsula. *Atmosphere*, 16(12), 1395. <https://doi.org/10.3390/atmos16121395>

105. Ilyas, M., Niaz, R., Cheng, H., Di Persio, L., Abd Elwahab, M. E., Mehr, A. D., & Hussain, I. (2025). Modeling meteorological drought across scales with regional and global climate indicators. *Theoretical and Applied Climatology*, 156(12), 1-26.

104. Niaz, R., Munir, S., Raza, M. A., Tur, R., Partani, S., & Mehr, A. D. (2025). BAMPP: A Novel Bayesian Network Enhanced by Average Marginal Posterior Probabilities to Identify Critical Ground Truth Meteorological Stations for Drought Monitoring. *Physics and Chemistry of the Earth, Parts A/B/C*, 104215.

103. Salim, S. A., M, K., S, A., Danandeh Mehr, A., & Alex, M. K. (2025). A novel random forest model enhanced by multivariate empirical mode decomposition for daily soil moisture prediction across India. *Environmental Earth Sciences*, 84(23), 693.

102. Lee, S., Danandeh Mehr, A., Moriasi, D., & Mirchi, A. (2025). Large-Scale Drought Forecasting in the US Southern Plains Through a Hybrid Cluster-Based Wavelet-Machine Learning Approach. *Water Resources Research*, 61(11), e2024WR039744.

101. Danandeh Mehr, A., & Moghaddam Nia, A. (2025). Emerging machine learning and optimization techniques in urban water systems. *AQUA—Water Infrastructure, Ecosystems and Society*, jws2025202.

100. Luo, L., Ke, C. Q., Cai, Y., Li, H., Xiao, Y., Nourani, V., Danandeh Mehr, A., & Sankaran, A. (2025). Abrupt decline and subsequent recovery of extreme precipitation associated with Atmospheric Rivers in the Southeastern Tibetan Plateau. *Atmospheric Research*, 108461.

99. Modaresi, F., Danandeh Mehr, A., Bajgiran, I. S., & Safari, M. J. S. (2025). Multi-level trend analysis of extreme climate indices by a novel hybrid method of fuzzy logic and innovative trend analysis. *Scientific Reports*, 15(1), 27432.

98. Mert, I.S., Danandeh Mehr, A., Abulaligah, L. (2025). The management genetic code: courageous dimensions, morality and evolutionary satisfaction. *Management Decision*, 63.

97. Danandeh Mehr, A., Ghavifekr, A. A., Ghazaei, E., Safari, M. J. S., Ke, C. Q., & Nourani, V. (2025). S-Transformer: a new deep learning model enhanced by sequential transformer encoders for drought forecasting. *Earth Science Informatics*, 18(2), 341.

96. Alkubaisi, H., Danandeh Mehr, A., S, A., & Khan, M. M. H. (2025). Drought modelling and forecasting using shallow and deep machine learning techniques. *Modeling Earth Systems and Environment*, 11(1), 41.

95. Danandeh Mehr, A., Jabarnejad, M., & Safari, M. J. S. (2025). MOGGP: A Novel Multi Objective Geometric Genetic Programming Model for Drought Forecasting. *Physics and Chemistry of the Earth, Parts A/B/C*, 103879.
94. Özdemir, S., Celebi, A., Dede, G., Maghrebi, M., & Danandeh Mehr, A. (2025). Impact of Land Use Change on Lake Pollution Dynamics: A Case Study of Sapanca Lake, Turkey. *Water*, 17(2), 182; <https://doi.org/10.3390/w17020182>
93. Lee, S., Moriasi, D. N., Fortuna, A. M., Mirchi, A., Danandeh Mehr, A., Chu, M. L., ... & Starks, P. (2025). 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* 54 (1), 147-159.
92. Wang, G., Ke, C. Q., Fan, Y., Shen, X., Nourani, V., Sankaran, A., Danandeh Mehr, A. & Popov, S. V. (2024). Accelerated basal melt rates of ice shelves in North Greenland from 2013 to 2022 estimated with the high-resolution ArcticDEM. *Journal of Geophysical Research: Oceans*, 129(12), e2024JC021509.
91. Elbeltagi, A., Katipoğlu, O. M., Kartal, V., Danandeh Mehr, A., Berhail, S., & Elsadek, E. A. (2024). Advanced reference crop evapotranspiration prediction: a novel framework combining neural nets, bee optimization algorithm, and mode decomposition. *Applied Water Science*, 14(12), 256.
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89. Lee, S., Nourani, V., Danandeh Mehr, A., Moriasi, D., & Mirchi, A. (2024). Wavelet-Entropy Enhanced Clustering: A Comprehensive Analysis of Drought Patterns in the Southern Plains, USA. *Journal of Hydrometeorology*, 25(12), 1809-1822.
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87. Hussain, A., Reihanifar, M., Niaz, R.; Albalawi, O., Maghrebi, M., Ahmed, A.T., Danandeh Mehr, A. (2024). Characterizing Inter-Seasonal Meteorological Drought Using Random Effect Logistic Regression. *Sustainability*, 16, 8433. <https://doi.org/10.3390/su16198433>
86. Modaresi, F., Danandeh Mehr, A., & Kazemi Choolanak, A. (2024). SMRF: a new class-based probabilistic approach for season-ahead monthly rainfall forecasting. *Acta Geophysica*, 1-15.
85. 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.
84. 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.
83. 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*, 54, (1), 147-159, DOI: 10.1002/jeq2.20565.
82. 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.
81. 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.
80. 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.
79. 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*, 69(4), 488-505.

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77. Fathian, F., Dehghan, Z., Alee, M. M., Vaheddoost, B., Abualigah, L., & Danandeh Mehr, A. (2023). Regional classification of extreme droughts across Iran. *Acta Geophysica*, 1-25.
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75. Partani, S., Danandeh Mehr, A., Maghrebi, M., Mokhtari, R., Nachtnebel, H. P., Taniwaki, R. H., & Arzhang, 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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72. Danandeh Mehr, A., Reihanifar, M., Alee, M. M., Vazifekkhah Ghaffari, M. A., Safari, M. J. S., & Mohammadi, B. (2023). VMD-GP: A New Evolutionary Explicit Model for Meteorological Drought Prediction at Ungauged Catchments. *Water*, 15(15), 2686.
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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*, 180(7), 2927-2937.
68. Mustafa Alee, M., Danandeh Mehr, A., Akdegirmen, O., & Nourani, V. (2023). Drought Assessment across Erbil Using Satellite Products. *Sustainability*, 15(8), 6687.
67. Soyulu Pekpostalci, D., Tur, R., Danandeh Mehr, A., Vazifekkhah 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., & Fathollahzadeh 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
65. Danandeh Mehr, A., Tur, R., Alee, M. M., Gul, E., Nourani, V., Shoaee, S., & Mohammadi, B. (2023). Optimizing Extreme Learning Machine for Drought Forecasting: Water Cycle vs. Bacterial Foraging. *Sustainability*, 15(5), 3923.
64. Maghrebi, M., Noori, R., Danandeh Mehr, A., Lak, R., Darougheh, F., Razmgir, R., ... & Kløve, B. (2023). Spatiotemporal Changes in Iranian Rivers' Discharge. *Elementa Science of the Anthropocene*, 11(1), 00002.
63. Hisam, E., Danandeh Mehr, A., Alganci, U., & Seker, D. Z. (2023). Comprehensive evaluation of Satellite-Based and reanalysis precipitation products over the Mediterranean region in Turkey. *Advances in Space Research*, 71(7), 3005-3021.
62. Maghrebi, M., Danandeh Mehr, A., Karrabi, S. M., Sadegh, M., Partani, S., Ghiasi, B., & Nourani, V. (2022). Spatiotemporal Variations of Air Pollution during the COVID-19 Pandemic across Tehran, Iran: Commonalities with

and Differences from Global Trends. *Sustainability*, 14(23), 16313.

61. Heddami, S., Kim, S., Danandeh Mehr, A., Zounemat-Kermani, M., Ptak, M., Elbeltagi, A., ... & Tikhamarine, Y. (2022). Bat algorithm optimized extreme learning machine (Bat-ELM): A novel approach for daily river water temperature modelling, *Geographical Journal*, 189(1), 78-89. <https://doi.org/10.1111/geoj.12478>

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56. Gholizadeh, R., Yilmaz, 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>

54. Danandeh Mehr, A., Ghadimi, S., Marttila, H., & Torabi Haghighi, A. (2022). A new evolutionary time series model for streamflow forecasting in boreal lake-river systems. *Theoretical and Applied Climatology*, 148(1), 255-268.

53. Danandeh Mehr, A., Rikhtehgar Ghiasi, A., Yaseen, Z. M., Sorman, A. U., & Abualigah, L. (2022). A novel intelligent deep learning predictive model for meteorological drought forecasting. *Journal of Ambient Intelligence and Humanized Computing*, 14(8), 10441-10455.

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concentration: case studies of river and lake in USA. *Journal of Cleaner Production*, 124868.

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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.

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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.

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

17. Ghorbani M. A., Khatibi R., Danandeh Mehr A. and Asadi H. (2018). Chaos-based multigene genetic programming: a new hybrid strategy for river flow forecasting. *Journal of Hydrology*, 562, 455-467.

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 programming 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.

8. Danandeh Mehr, A. and Kahya, E. (2017). Climate change impacts on catchment-scale extreme rainfall variability: Case Study of Rize Province, Turkey. *Journal of Hydrologic Engineering*, 22(3), 05016037, 10.1061/(ASCE)HE.1943-5584.0001477.

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.

6. Danandeh Mehr, A., Kahya E., Şahin, A. and Nazemosadat M.J. (2015) Successive-station monthly streamflow prediction using different ANN algorithms. *International Journal of Environmental Science and Technology*, 12 (7): 2191-2200.

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.

2. Danandeh Mehr, A., Kahya, E., Bagheri, F. and Deliktas E. (2014) Successive-station monthly streamflow prediction using neuro-wavelet technique. *Earth Science Informatics* 7, 217-229.

1. Danandeh Mehr, A., Kahya E. and Olyaie E. (2013) Streamflow prediction using linear genetic programming in comparison with a neuro-wavelet technique. *Journal of Hydrology*, 505:240–249.

7.2. Uluslararası diğer hakemli dergilerde yayınlanan makaleler

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)

2. Danandeh Mehr, A. and Tabatabai, M. R. M (2010). Prediction of daily discharge trend of river flow based on genetic programming. *Journal of water and soil (Agricultural Science and Technology)*; 24(2): 325-333. (in Farsi)

1. Danandeh Mehr, A. Oliaei, E. and Ghorbani M.A (2010). Suspended sediment load prediction based on river discharge and genetic programming method. *Watershed Management Research (Pajouhesh-va-Sazandegi)*; 23(88):44-54. (in Farsi)

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.
24. **Danandeh Mehr, A.**, R. Farhangi and Ghiasi A. R., "The Validity of Deep Learning Computational Model for Wind Speed Simulation," 2021. 7th International Conference on Control, Instrumentation and Automation (ICCIA), 2021, pp. 1-5, doi: 10.1109/ICCIA52082.2021.9403583.
23. Akdemir, H., Alaybeyoğlu, A., **Danandeh Mehr, A.** (2020) A New Perspective to Design Phase of Water Supply Systems from Aspect of Water Demand Using Fuzzy Automation. International Conference on Intelligent and Fuzzy Systems, Izmir, Turkey.
22. **Danandeh Mehr, A.**, Sorman, A. U., Safari, M.J.S. (2019). Meteorological Drought Analysis at North-Western Ankara. The 1st International and 4th National Congress on Iranian Irrigation and Drainage, 13-14 November 2019, Urmia, Iran (received the best oral presentation award).
21. **Danandeh Mehr, A.** (2019). Modern soft computing techniques and their applications in civil engineering. 12th International Scientific Conference on Production Engineering (Development and Modernization of Production) 18-20 September 2019, Sarajevo, Bosnia and Herzegovina
20. **Danandeh Mehr, A.**, Farrokh Ghatte (2019). Treated wastewater for concrete mixing; a comparative study between ASTM and Turkish standards. 12th International Scientific Conference on Production Engineering (Development and Modernization of Production) 18-20 September 2019, Sarajevo, Bosnia and Herzegovina
19. Taş E., Ağırlioğlu N., **Danandeh Mehr, A.**, Tür, R. (2019). A brief review of experimental friction loss studies for polyethylene pipes. 12th International Scientific Conference on Production Engineering (Development and Modernization of Production) 18-20 September 2019, Sarajevo, Bosnia and Herzegovina
18. Ağırlioğlu N., **A. Danandeh Mehr**, Ciftci M., Ö. Akdeğirmen (2019). Flood Wave Routing at Çamlıova Reservoir, Antalya, Turkey. 4th Eurasian Conference on Civil and Environmental Engineering (ECOCEE 2019) Conference 17-18 June 2019. Istanbul, Turkey.
17. Ağırlioğlu N., **A. Danandeh Mehr**, 2019. Principals of Planning and Realization of Greater Melen Water Supply Project, Turkey. 4th International conference on Civil and environmental Geology and Mining Engineering (ICOCEM 2018), 20-22 April 2019, Trabzon/ Turkey.
16. **Danandeh Mehr A.**, Bagheri F., Reşatoğlu R. (2019) A Genetic Programming Approach to Forecast Daily Electricity Demand. In: Aliev R., Kacprzyk J., Pedrycz W., Jamshidi M., Sadikoglu F. (eds) *13th International Conference on Theory and Application of Fuzzy Systems and Soft Computing — ICAFS-2018*. ICAFS 2018. Advances in Intelligent Systems and Computing, vol 896. Springer, Cham
15. Hrnjica, B., **A. Danandeh Mehr**, Behrem S., and N. Ağırlioğlu, 2018. Genetic Programming for Turbidity Prediction: Hourly and Monthly Scenario. International Symposium on Urban Water and Wastewater Management (UKSAY 2018), 25-27 October 2018, Denizli/ Turkey.
14. Ağırlioğlu N., **A. Danandeh Mehr**, Ö. Akdeğirmen, E. Taş, 2018. Cyprus Water Supply Project: Features and Outcomes. 13th International Congress on Advances in Civil Engineering (ACE 2018), 12-14 September 2018, Izmir/ Turkey.
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.
11. Kahya, E., **A. Danandeh Mehr**, Şen, O, Akçakay. A and M. Özger, 2016. A comparative study on the current and future design storms over Rize province, Turkey. 12th International Congress on Advances in Civil Engineering (ACE

2016), Istanbul, Turkey.

10. Kahya, E., A. **Danandeh Mehr**, D. Şen, O. and M. Özger, 2015. Climate Change Impacts on Extreme Rainfalls over Rize Province, Turkey. 10th International Congress on Civil Engineering, 5-7 May 2015 University of Tabriz, Tabriz, Iran.

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.

8. Uyumaz, A., A. **Danandeh Mehr**, and O. Şen, 2013. "River Morphology and Fluvial Processes". Bursa 3rd International Congress on Water. pp., 1094-1099., 22-24, Bursa, Turkey.

7. Taiebipour, M. and A. **Danandeh Mehr**. 2011, "Integrated Flood Plain Management Strategy for Kor River Basin In Iran". Abstract of the paper accepted to be presented at the 5th International Conference on Flood Management (ICFM5), Tokyo. Japan, 27-29 September 2011.

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

3. Jafari G. Norouzi S. and A. **Danandeh Mehr**. 2010, "Field Investigation about Performance of Constructed Groins in Ghezeloan River". Proceedings of 8th International River Engineering Conference, Shahid Chamran University, Ahvaz, Iran, 26-28 Jan, 2010 (in Farsi).

2. **Danandeh Mehr**, A. 2007, "Flood Control System Optimization Based on Risk Analysis in Floodplain". Proceedings of 7th International River Engineering Conference, Shahid Chamran University, Ahvaz, Iran, 13-14 Feb, 2007

1. **Danandeh Mehr**, A., M. M. Vanolia and M. R. M. Tabatabai. 2006. "Benefit-cost Analysis Was Applied to Provide an Explicit Economical Basis for Developing Integrated Floodplain Management Plans" Proceedings of 2nd International Conference on Hydrology and Watershed Management, JNTU, Hyderabad, INDIA 5th – 8th Des.

7.4. Yazılan uluslararası kitaplar veya kitaplarda bölümler

8. Tas, E., Tur, R., & **Danandeh Mehr**, A. (2024). Artificial Intelligence-Based Sea Level Prediction: A Review of Recent Studies from a Coastal Engineering Perspective. Hydrology and Urban Water Supply, 27-42. Springer

7. Heddarn, S., 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.

6. **Danandeh Mehr**, A. and Safari, M.J.S. (2021). Genetic programming for streamflow forecasting: A concise review of univariate models with a case Study. In Advances in Streamflow Forecasting: from Traditional to Modern Approaches, Eds.: Priyanka Sharma, Deepesh Maciwal, Elsevier, vol:1, 450, pages. ISBN:978-0128206737.

5. Safari, M.J.S, and **Danandeh Mehr**, A. (2020). Design of smart urban drainage systems using evolutionary decision tree model. In IoT Technologies in Smart-Cities: From sensors to big data, security, and trust (1st Edition). 131, IET.

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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1. **Danandeh Mehr, A.** Oliaci, E. and Ghorbani M.A (2010) *Suspended sediment load prediction based on river discharge and genetic programming method*. *Watershed Management Research (Pajouhesh-va-Sazandegi)*; 23(3(88)):44-54.

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, Zanzan, 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. Malekabaslou. 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 Projeleri:

4. Ke, C. Nourani, V., Danandeh Mehr, A. ve diğ., 2022-2024: 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 öğrencileri 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, Lefkøşa, 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

2019-2025	%2 Bilim Adamı (Top 2% Scientist-Scopus), Mühendislik Alanında
2019	En iyi bildiri sunumu ödülü (1. Uluslararası ve 4. Ulusal İran drenaj ve sulama Kongresi, 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 Mühendisliği Öğrencileri 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	
2024-2025	Güz	Fluid Mechanics	3		18
2024-2025	Güz	Hydrology	3		19
2024-2025	İlkbahar	Hydraulic Engineering	3		12
2024-2025	İlkbahar	Environmental Engineering	3		13
2024-2025	İlkbahar	River Engineering (YL)	6		2
2025-2026	Güz	Fluid Mechanics	3		20
2025-2026	Güz	Hydrology	3		18
2025-2026	Güz	Introductio to Civil Engineering and Ethics	3		12
2025-2026	Güz	Advanced Hydrology (YL)	6		2

13. Diğer verdiği/verebileceği dersler

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