**Complete List of Papers by Year of Publication**

1. **Bonakdari, H.,** Binns, A.D., Gharabaghi, B. (2020), A Comparative Study of Linear Stochastic with Nonlinear Daily River Discharge Forecast Models, Water Resources Management, Vol. 34, No. 11, pp. 3689-3708. doi: 10.1007/s11269-020-02644-y. **(Q1 & IF= 2.924)**
2. **Bonakdari, H.,** Gholami, A., Sattar, A.M.A., Gharabaghi, B. (2020). Development of robust evolutionary polynomialregression network in the estimation of stable alluvial channel dimensions. Geomorphology. 350: 106895. doi: 10.1016/j.geomorph.2019.106895.
3. **Bonakdari, H.,** Gholami, A., Mosavi, A., Kazemian-Kale-Kale, A.,  Ebtehaj, I., Azimi A. H., (2020), A novel comprehensive evaluation method for estimating the bank profile shape and dimensions of stable channels using the maximum entropy principle, Entropy, Vol. 22, No. 11, pp. 1-23. doi: 10.3390/e22111218. **(Q2 & IF= 2.419)**
4. Soltani, K., Amiri, A., Zeynoddin, M., Ebtehaj, I., Gharabaghi, B., **Bonakdari, H.** (2020), Forecasting monthly fluctuations of lake surface areas using remote sensing techniques and novel machine learning methods. Theoretical and Applied Climatology, doi: 10.1007/s00704-020-03419-6. **(Q2 & IF= 2.882)**
5. **Bonakdari, H.,** Zaji, A.H., Soltani, K., Gharabaghi, B., (2020). Improving the accuracy of a remotely-sensed flood warning system using a multi-objective pre-processing method for signal defects detection and elimination. Comptes Rendus Géoscience—Sciences de la Planète, Vol. 352, No. 1, pp. 73-86. Doi : 10.5802/crgeos.4. **(Q3 & IF= 1.903)**
6. Noori, A., **Bonakdari, H.,** Morovati, K., Gharabaghi, B. (2020), Development of optimal water supply plan using integrated fuzzy Delphi and fuzzy ELECTRE III methods—Case study of the Gamasiab basin, Expert Systems, Vol. 37, No. 5, pp. e12568. doi: 10.1111/exsy.12568. **(Q2 & IF= 1.546)**
7. Gholami, A., **Bonakdari, H.,** Ebtehaj, I., Khodashenas, S.R. (2020). Reliability and sensitivity analysis of robustlearning machine in prediction of bank profile morphology of threshold sandrivers. Measurement. 153: 107411.doi:1016/j.measurement.2019.107411
8. Stajkowski, S., Zeynoddin, M., Farghaly, H., Gharabaghi, B., **Bonakdari, H.** (2020), A methodology for forecasting dissolved oxygen in urban streams, Water (Switzerland), Vol. 12, No. 9, pp. 2568. doi: 10.3390/w12092568. **(Q2 & IF= 2.524)**
9. [Salehi, S.](https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=57207752138&zone=), [Azimi, A.H.](https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=35184826300&zone=), [**Bonakdari, H.**](https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=23388736200&zone=)**,** (2020). Hydraulics of sharp-crested weir culverts with downstream ramps in free-flow, partially, and fully submerged-flow conditions, Irrigation Science. doi: 10.1007/s00271-020-00695-y. **(Q1 & IF= 3.014)**
10. Zeynoddin, M., Ebtehaj, I., **Bonakdari, H.** (2020), Development of a linear based stochastic model for daily soil temperature prediction: One step forward to sustainable agriculture, Computers and Electronics in Agriculture, Vol. 176, pp. 105636. doi: 10.1016/j.compag.2020.105636. **(Q1 & IF= 3.858)**
11. Azimi, A.H., **Bonakdari, H.** (2020), Experimental Investigation of One-Cycle Triangular Labyrinth Weirs with an Upstream Pool, Journal of Irrigation and Drainage Engineering, Vol. 146, No. 7, pp. 06020005. doi: 10.1061/(ASCE)IR.1943-4774.0001484. **(Q2 & IF= 1.340)**
12. Stajkowski, S., Kumar, D., Samui, P., **Bonakdari, H.,** Gharabaghi, B. (2020), Genetic-algorithm-optimized sequential model for water temperature prediction, Sustainability (Switzerland), Vol. 12, No. 13, pp. 5374. doi: **10.3390/su12135374. (Q2 & IF= 2.576)**
13. Zeynoddin, M., **Bonakdari, H.,** Ebtehaj, I., Azari, A., Gharabaghi, B. (2020), A generalized linear stochastic model for lake level prediction, Science of the Total Environment, Vol. 723, pp. 138015. doi: 10.1016/j.scitotenv.2020.138015. **(Q1 & IF= 5.589)**
14. Salih, S.Q., Sharafati, A., Ebtehaj, I., Sanikhani, H., Siddique, R., Deo, R.C., **Bonakdari, H.,** Shahid, S., Yaseen, Z.M. (2020), Integrative stochastic model standardization with genetic algorithm for rainfall pattern forecasting in tropical and semi-arid environments, Hydrological Sciences Journal. doi: 10.1080/02626667.2020.1734813. **(Q2 & IF= 2.180)**
15. Alfaifi, H., Mohammadian, A.,**Bonakdari, H. (2020),** Experimental Investigation and Model Development of Geometric Characteristics of Negatively Buoyant Jets Inclined at 15° and 52° using GMDH Method, Journal of Coastal Research, 36(3), pp. 636-653. **(Q4 & IF= 0.793)**
16. Lotfi, K., **Bonakdari, H.,**Ebtehaj, I., Delatolla, R., Zinatizadeh, A.A., Gharabaghi, B. (2020), A novel stochastic wastewater quality modeling based on fuzzy techniques, Journal of Environmental Health Science and Engineering, Vol. 18, pp.1099–1120. https://doi.org/10.1007/s40201-020-00530-8. **(Q3 & IF= 2.179)**
17. **Bonakdari, H.,** Pelletier, J.-P., Martel-Pelletier, J. (2020), A reliable time-series method for predicting arthritic disease outcomes: New step from regression toward a nonlinear artificial intelligence method. Computer Methods and Programs in Biomedicine, Vol. 189, pp. 105315. doi: 10.1016/j.cmpb.2020.105315. **(Q1 & IF= 3.424)**
18. Salimi, A.H., Noori, A., **Bonakdari, H.,** Samakosh, J. F., Sharifi, E., Hassanvand, M., Gharabaghi, B., Agharazi M., (2020), Exploring the Role of Advertising Types on Improving the Water Consumption Behavior: An Application of Integrated Fuzzy AHP and Fuzzy VIKOR Method. Sustainability, Vol. 12, pp. 1232. doi: 10.3390/su12031232. **(Q2 & IF= 2.592)**
19. **Bonakdari H.,** Zaji I., Gharabaghi B., Ebtehaj I., Moazamnia M. (2020). More accurate prediction of the complex velocity field in sewers based on uncertainty analysis using extreme learning machine technique. ISH Journal of Hydraulic Engineering, Vol. 26, No. 4, pp. 409-420. doi: 10.1080/09715010.2018.1498753. **(Q3 & IF= 0.230)**
20. Langridge, M., Gharabaghi, B., McBean, E., **Bonakdari, H.,** Walton, R., (2020), Understanding the dynamic nature of Time-to-Peak in UK streams, Journal of Hydrology, Vol. 583, pp. 124630. doi: 10.1016/j.jhydrol.2020.124630. **(Q1 & IF= 4.405)**
21. Zaji, A.H., **Bonakdari, H.,** Khameneh, H.Z., Khodashenas, S.R. (2020), Application of optimized Artificial and Radial Basis neural networks by using modified Genetic Algorithm on discharge coefficient prediction of modified labyrinth side weir with two and four cycles, Measurement, Vol. 152, pp. 107291. doi: 10.1016/j.measurement.2019.107291. **(Q2 & IF= 2.791)**
22. Ebtehaj, I., Zeynoddin, M**., Bonakdari, H.** (2020), Discussion of “Comparative assessment of time series and artificial intelligence models to estimate monthly streamflow: A local and external data analysis approach” by Saeid Mehdizadeh, Farshad Fathian, Mir Jafar Sadegh Safari and Jan F. Adamowski, Journal of Hydrology, Vol. 583, pp. 124614. doi: 10.1016/j.jhydrol.2020.124614. **(Q1 & IF= 4.405)**
23. **Bonakdari,H.,** Moradi, F., Ebtehaj, I., Gharabaghi, B., Sattar, A. A., Azimi, A. H., Radecki-Pawlik, A., (2020), A Non-Tuned Machine Learning Technique for Abutment Scour Depth in Clear Water Condition, Water, Vol. 12, pp. 301; doi: 10.3390/w12010301. **(Q2 & IF= 2.524)**
24. Ebtehaj I., **Bonakdari** **H.,** Safari M.J.S., Gharabaghi B., Zaji A. H., Riahi Madavar H., Sheikh Z., Es-haghi M.S., Shishegaran A., Danandeh Mehr A., (2020), Combination of sensitivity and uncertainty analyses for sediment transport modeling in sewer pipes, International Journal of Sediment Research, Vol. 35, No. 2, pp. 157-170. doi: 10.1016/j.ijsrc.2019.08.005. **(Q3 & IF= 1.970)**
25. Kazemian-Kale-Kale, A., **Bonakdari, H.,** Gholami, A., Gharabaghi, B. (2020), The uncertainty of the Shannon entropy model for shear stress distribution in circular channels, International Journal of Sediment Research, Vol. 35, No. 1, pp. 57-68. doi: 10.1016/j.ijsrc.2019.07.001. **(Q3 & IF= 1.970)**
26. Salami, A. H., **Bonakdari, H.,** Akhbari, A., Shamshiri, A., Mousavi, S. F., Farzin, S., Hassanvand, M. R., Noori, A., (2020), Performance assessment of modifed clinoptilolite and magnetic nanotubes on sulfate removal and potential application in natural river samples, Journal of Inclusion Phenomena and Macrocyclic Chemistry. doi: 10.1007/s10847-020-00982-3. **(Q3 & IF= 1.429)**
27. **Bonakdari, H.,** Qasem, S.N., Ebtehaj, I., Zaji A.H., Gharabaghi, B., Moazamnia, M. (2020). An expert system for predicting the velocity field in narrow open channel flows using self-adaptive extreme learning machines, Measurement, Vol. 151, pp. 107202. doi: 10.1016/j.measurement.2019.107202. **(Q2 & IF= 2.791)**
28. Ebtehaj, I., **Bonakdari, H.,** Zeynoddin, M., Gharabaghi, B., Azari A., (2020). Evaluation of preprocessing techniques for improving the accuracy of stochastic rainfall forecast models, International Journal of Environmental Science and Technology, doi: 10.1007/s13762-019-02361. **(Q2 & IF= 2.037)**
29. Gholami A., **Bonakdari H.,** Zaji A. H., Akhatri A. A., (2020), A comparison of artificial intelligence-based classification techniques in predicting flow variables in sharp curved channels. Engineering with Computers, Vol. 36, pp. 295–324. doi: 10.1007/s00366-018-00697-7. **(Q2 & IF= 1.951)**
30. **Bonakdari, H.,** Ebtehaj, I., Samui, P., Gharabaghi, B. (2019), Lake Water-Level fluctuations forecasting using Minimax Probability Machine Regression, Relevance Vector Machine, Gaussian Process Regression, and Extreme Learning Machine, Water Resource Management, Vol. 33, No. 11, pp. 3965-3984. doi: 10.1007/s11269-019-02346-0 **(Q1 & IF= 2.978)**
31. Gharabaghi, S., Stahl, E., **Bonakdari, H.** (2019), Integrated nonlinear daily water demand forecast model (case study: City of Guelph, Canada), Journal of Hydrology, Vol. 579, pp. 124182. **(Q1 & IF= 4.405)**
32. **Bonakdari, H.,** Moeeni H., Ebtehaj I., Zeynodin M., Mohammadian M., Gharabaghi B., (2019), New insights into Soil Temperature Time Series Modeling: Linear or Nonlinear? Theoretical and Applied Climatology, Vol. 135(3-4), pp. 1157-1177. doi: 10.1007/s00704-018-2436-2 **(Q2 & IF= 2.70)**
33. Gholami, A., **Bonakdari, H.,** Mohammadian, M., Zaji, A.H., Gharabaghi, B. (2019), [Assessment of geomorphological bank evolution of the alluvial threshold rivers based on entropy concept parameters](https://www2.scopus.com/record/display.uri?eid=2-s2.0-85065775819&origin=resultslist&sort=plf-f&src=s&st1=bonakdari&st2=&nlo=1&nlr=20&nls=count-f&sid=389f3671b5efb28dfb93f321193be74f&sot=anl&sdt=aut&sl=39&s=AU-ID%28%22Bonakdari%2c+Hossein%22+23388736200%29&relpos=12&citeCnt=0&searchTerm=), [Hydrological Sciences Journal](https://www2.scopus.com/sourceid/29470?origin=resultslist), Vol. 64, No. 7, pp. 856-872, doi: 10.1080/02626667.2019.1608995. **(Q2 & IF= 2.18)**
34. Walton, R., Binns, A., **Bonakdari, H.,** Ebtehaj, I., Gharabaghi, B. Estimating 2-year flood flows using the generalized structure of the Group Method of Data Handling. Journal of Hydrology, Vol. 575, pp. 671-689. Doi: 10.1016/j.jhydrol.2019.05.068 **(Q1 & IF= 4.405)**
35. Gholami, A., **Bonakdari, H.,** Mohammadian, M., (2019), Enhanced formulation of the probability principle based on maximum entropy to design the bank profile of channels in geomorphic threshold, Stochastic Environmental Research and Risk Assessment, Vol 33(4-6), pp. 1013-1034. DOI: 10.1007/s00477-019-01679-x. **(Q1 & IF= 2.807)**
36. Safari, M.J.S., Ebtehaj, I., Bonakdari, H., Es-haghi, M.S. (2019), Sediment transport modeling in rigid boundary open channels using generalize structure of group method of data handling, Journal of Hydrology, Vol. 577, 123951. doi: 10.1016/j.jhydrol.2019.123951. **(Q1 & IF= 4.405)**
37. Zaji A. H., **Bonakdari, H.,** (2019), Robustness lake water level prediction using the search heuristic based artificial intelligence methods, ISH Journal of Hydraulic Engineering, Vol. 25, No. 3, pp. 316-324. doi: 10.1080/09715010.2018.1424568. **(Q2 & IF= 0.305)**
38. [Tao, H.](https://www2.scopus.com/authid/detail.uri?authorId=36350315600&amp;eid=2-s2.0-85065608674), [Ebtehaj, I.](https://www2.scopus.com/authid/detail.uri?authorId=55826666000&amp;eid=2-s2.0-85065608674), [Bonakdari, H.](https://www2.scopus.com/authid/detail.uri?authorId=23388736200&amp;eid=2-s2.0-85065608674), [Heddam, S.](https://www2.scopus.com/authid/detail.uri?authorId=25226555100&amp;eid=2-s2.0-85065608674), [Voyant, C.](https://www2.scopus.com/authid/detail.uri?authorId=23502130600&amp;eid=2-s2.0-85065608674), [Al-Ansari, N.](https://www2.scopus.com/authid/detail.uri?authorId=51664437800&amp;eid=2-s2.0-85065608674), [Deo, R.](https://www2.scopus.com/authid/detail.uri?authorId=8630380500&amp;eid=2-s2.0-85065608674), [Yaseen, Z.M](https://www2.scopus.com/authid/detail.uri?authorId=56436206700&amp;eid=2-s2.0-85065608674)., (2019), Designing a new data intelligence model for global solar radiation prediction: Application of multivariate modeling scheme, Energies, Volume 12, No. 7, pp. 1365, doi: 10.3390/en12071365. **(Q3 & IF= 2.707)**
39. Zaji, A.H., **Bonakdari, H.,** Gharabaghi, B. (2019), Advancing Freshwater Lake Level Forecast Using King’s Castle Optimization with Training Sample Adaption and Adaptive Neuro-Fuzzy Inference System, Water Resources Management, Vol. 33, No. 12, pp. 4215-4230. **(Q1 & IF= 2.978)**
40. **Bonakdari H.,** Zaji, A. H., Binns A. D., Gharabaghi B. (2019), Integrated Markov chains and uncertainty analysis techniques to more accurately forecast floods using satellite signals, Journal of Hydrology, Vol. 572, pp. 75-95. Doi: 10.1016/j.jhydrol.2019.02.027. **(Q1 & IF= 4.405)**
41. Ebtehaj, I., **Bonakdari, H.,** Es-haghi, M.S. (2019), Design of a Hybrid ANFIS–PSO Model to Estimate Sediment Transport in Open Channels, Iranian Journal of Science and Technology - Transactions of Civil Engineering, Vol. 43, No. 4, pp. 851-857. **(Q3 & IF= 0.692)**
42. Zaji A. H., **Bonakdari, H.,** Gharabaghi B., (2019), Developing an AI-based method for river discharge forecasting using satellite signals, Theoretical and Applied Climatology, Vol. 138, No. (1-2), pp. 347-362. doi: 10.1007/s00704-019-02833-9 **(Q2 & IF= 2.70)**
43. Gholami, A., **Bonakdari, H.,** Samui, P., Mohammadian, M., Gharabaghi, B. (2019), Predicting stable alluvial channel profiles using emotional artificial neural networks, Applied Soft Computing Journal, Vol. 78, pp. 420-437. Doi: 10.1016/j.asoc.2019.03.003. **(Q1 & IF= 4.873)**
44. Zaji A. H., **Bonakdari, H.,** Gharabaghi B., (2019), Applying upstream satellite signals and a two-dimensional error minimization algorithm to advance early warning and management of flood water levels and river discharge, IEEE Transactions on Geoscience and Remote Sensing, Vol. 57, No. 2, pp. 902-910. Doi:10.1109/TGRS.2018.2862640. **(Q1 & IF= 5.630)**
45. Yaseen, Z.M., Mohtar, W.H.M.W., Ameen, A.M.S., Ebtehaj, I., Razali, S.F.M., **Bonakdari, H.,** Salih, S.Q., Al-Ansari, N., Shahid, S., (2019), Implementation of Univariate Paradigm for Streamflow Simulation Using Hybrid Data-Driven Model: Case Study in Tropical Region, IEEE Access, Vol. 7, pp. 74471-74481., doi: 10.1109/ACCESS.2019.2920916. **(Q1 & IF= 4.098)**
46. Gholami, A., **Bonakdari, H.,** Mohammadian, M., (2019), A method based on the Tsallis entropy for characterizing threshold channel bank profiles, Physica A: Statistical Mechanics and its Applications, Vol. 526, 121089(1-18). doi: 10.1016/j.physa.2019.121089 **(Q2 & IF= 2.50)**
47. Lotfi, K., **Bonakdari, H.,** Ebtehaj, I., Mjalli, F.S., Zeynoddin, M., Delatolla, R., Gharabaghi, B., (2019), Predicting wastewater treatment plant quality parameters using a novel hybrid linear-nonlinear methodology, Journal of Environmental Management. Vol. 240, pp. 463-474. doi: 10.1016/j.jenvman.2019.03.137. **(Q1 & IF= 4.175)**
48. Ebtehaj, I., **Bonakdari, H.,** Gharabaghi, B., (2019). Closure to “An integrated framework of Extreme Learning Machines for predicting scour at pile groups in clear water condition by Ebtehaj, I., Bonakdari, H., Moradi, F., Gharabaghi, B., Khozani, Z.S.”. Coastal Engineering, 147: 135-137. Doi: 10.1016/j.coastaleng.2019.02.011. **(Q1 & IF= 3.850).**
49. Gholami A., **Bonakdari H.,** Zeynodin M., Ebtehaj I., Gharabaghi B., Khodashenas S. R., (2019), Reliable method of determining stable threshold channel shape using experimental and gene expression programming techniques, Neural Computing and Applications, Vol. 31, No. 10, pp. 5799-5817. doi: 10.1007/s00521-018-3411-7. **(Q1 & IF= 4.664)**
50. Zaji A. H., **Bonakdari, H.,** (2018), Velocity field simulation of open channel junction using artificial intelligence approaches, Iranian Journal of Science and Technology, Transactions of Civil Engineering. Vol. 43, pp. 549-560. doi: 10.1007/s40996-018-0185-1 **(Q3 & IF= 0.692)**
51. Azimi H., **Bonakdari H.,** Ebtehaj I., Shabanlou S., Ashraf Talesh S. H., Jamali A., (2019), A pareto design of evolutionary hybrid optimization of ANFIS model in prediction abutment scour depth, Sådhanå, Vol. 44,:169, doi: 10.1007/s12046-019-1153-6S, **(Q3 & IF= 0.769)**
52. **Bonakdari, H.,** Ebtehaj, I., Gharabaghi, B., Vafaeifard, M., Akhbari, A., (2019) Calculating the energy consumption of electrocoagulation using a generalized structure group method of data handling integrated with a genetic algorithm and singular value decomposition, Clean Technologies and Environmental Policy, Vol. 21, No. 2, pp. 379-39. Doi: 10.1007/s10098-018-1642-z **(Q2 & IF= 2.277)**
53. Zeynoddin, M., **Bonakdari, H.,** Ebtehaj, I., Esmaeilbeiki, F., Gharabaghi, B., Zare Haghi, D., (2019), A reliable linear stochastic daily soil temperature forecast model, Soil & Tillage Research, Vol. 189, pp. 73–87. doi: 10.1016/j.still.2018.12.023. **(Q1 & IF= 4.675)**
54. Bostan M., Akhtari A. A., **Bonakdari H.,** Jalili F., (2019), Optimal Design for Shock Damper with Genetic Algorithm to Control Water Hammer Effects in Complex Water Distribution Systems, Water Resources Management, Vol. 33, No. 5, pp. 1665-1681. doi: 10.1007/s11269-019-2192-9 **(Q1 & IF= 2.978)**
55. Zaji A. H., **Bonakdari, H.,** (2019), Discharge and flow field simulation of open channel sewer junction using artificial intelligence methods, Scientia Iranica, Vol. 26, No. 1A, pp. 178-187. doi: 10.24200/SCI.2018.20695 **(Q4 & IF= 0.475)**
56. **Bonakdari H.,** Mohammadian M., (2019), Evolutionary Prediction of an Inclined Dense Jet in Shallow Water, Desalination and Water Treatment, Vol. 155, pp. 32-47. doi: 10.5004/dwt.2019.23931, **(Q3 & IF= 1.234)**
57. Sattar M. A., **Bonakdari, H.,** Gharabaghi, B., Radecki-Pawlik A., (2019), Hydraulic modeling and evaluation equations for the incipient motion of sandbags for levee breach closure operations, Water, Vol. 11, 279 (1-22), doi:10.3390/w11020279 **(Q2 & IF= 2.524)**
58. Ebtehaj, I., **Bonakdari, H.,** Gharabaghi, B., (2019), A reliable linear method for modeling lake level fluctuations, Journal of Hydrology, Vol. 570, pp. 236-250. doi: 10.1016/j.jhydrol.2019.01.010. **(Q1 & IF= 4.405)**
59. Safarzadeh, A., Zaji A. H., **Bonakdari, H.,** (2019), 3D flow simulation of straight groynes using hybrid DE-based artificial intelligence methods, Soft Computing, Vol. 23, No. 11, pp. 3757-3777. doi: 10.1007/s00500-018-3037-9. **(Q2 & IF= 2.784)**
60. Milukow H. A., Binns A. D., Adamowski J., **Bonakdari H.,** Gharabaghi B. (2019), Estimation of the Darcy-Weisbach Friction Factor for Ungauged streams using Gene Expression Programming and Extreme Learning Machine, Journal of Hydrology, Vol. 568, pp. 311-321, DOI: 10.1016/j.jhydrol.2018.10.073 **(Q1 & IF= 4.405)**
61. Moradi F., **Bonakdari H.,** Kisi O., Ebtehaj I., Shiri J., Gharabaghi B., (2019), Abutment Scour Depth Modeling Using Neuro-Fuzzy Embedded Techniques, Marine Georesources & Geotechnology, Vol. 37, No. 2, pp. 190-200. DOI: 10.1080/1064119X.2017.1420113 **(Q3 & IF= 1.166)**
62. Sattar, A.A., Elhakeem, M., Rezaie-Balf, M., Gharabaghi, B., **Bonakdari, H.** (2019), Artificial intelligence models for prediction of the aeration efficiency of the stepped weir, Flow Measurement and Instrumentation, Vol. 65, pp. 78-89, DOI: 10.1016/j.flowmeasinst.2018.11.017. **(Q2 & IF= 1.977)**
63. Power H. E., Gharabaghi B., **Bonakdari H.,** Robertson B., Atkinson A. L., Baldock T. E., (2019), Prediction of Wave Runup on Beaches Using Gene-Expression Programming and Empirical Relationships, Coastal Engineering, Vol. 144, pp. 47-61. **(Q1 & IF= 3.850).**
64. Sihag, P., Esmaeilbeiki, F., Singh, B., Ebtehaj, I., **Bonakdari, H.,** (2019), Modeling unsaturated hydraulic conductivity by hybrid soft computing techniques, Soft Computing, Vol. 23, no. 23, pp. 12897-12910. Doi: 10.1007/s00500-019-03847-1. **(Q2 & IF= 2.784)**
65. Mojtahedi S. F., Ebtehaj I., Hasanipanah M., **Bonakdari, H.,** Bakhshandeh Amnieh H., (2019), Proposing a novel hybrid intelligent model for the simulation of particle size distribution resulting from blasting, Engineering with Computers, Vol. 35, No. 1, pp. 47-56. DOI:10.1007/s00366-018-0582-x **(Q1 & IF= 3.551)**
66. Shaghaghi S., **Bonakdari H.,** Gholami A., Kisi O., Binns A. D., Gharabaghi B., (2018), Predicting the Regime Channel Geometry Using M5 Model Tree, Multivariate Adaptive Regression Splines and Least Square Support Vector Regression Methods, International Journal of River Basin Management, Vol. 17, No. 3, pp. 333-352. DOI: 10.1080/15715124.2018.1546731. **(Q2 & IF= 1.380).**
67. Akhbari A., Ibrahim S., Zinatizadeh A. A., **Bonakdari H.,** Ebtehaj I., Sheikh Z., Vafaeifard M., Gharabaghi B., (2019), Evolutionary prediction of bio-hydrogen production by dark fermentation, Clean, Soil, Air, Water, Vol. 47, 1700494(1-14). DOI: 10.1002/clen.201700494. **(Q3 & IF= 1.512).**
68. Binns A. D., Fata A., da Silva A. M., **Bonakdari H.,** Gharabaghi B., (2019), Modelling performance of sediment control wet ponds at two construction sites in Ontario, Canada, Journal of Hydraulic Engineering, ASCE, Vol. 145, No. 4, pp. 0501900, Doi: 10.1061/(ASCE)HY.1943-7900.0001581 **(Q2 & IF= 2.206)**
69. [Mundher Yaseen](https://www.mdpi.com/search?authors=Zaher%20%20Mundher%20Yaseen&orcid=0000-0003-3647-7137) Z., Ebtehaj I.,, [Kim](https://www.mdpi.com/search?authors=Sungwon%20Kim&orcid=) S., [Sanikhani](https://www.mdpi.com/search?authors=Hadi%20Sanikhani&orcid=0000-0002-5201-1874) S., [Asadi](https://www.mdpi.com/search?authors=H.%20Asadi&orcid=) H., [Ghareb](https://www.mdpi.com/search?authors=Mazen%20%20Ismaeel%20Ghareb&orcid=0000-0002-3937-2835) M. S., [**Bonakdari**](https://www.mdpi.com/search?authors=Hossein%20Bonakdari&orcid=0000-0001-6169-3654) **H.**, [Melini Wan Mohtar](https://www.mdpi.com/search?authors=Wan%20%20Hanna%20Melini%20Wan%20Mohtar&orcid=0000-0002-5684-5577) W. H., [Al-Ansari](https://www.mdpi.com/search?authors=Nadhir%20Al-Ansari&orcid=0000-0002-6790-2653) N., [Shahid](https://www.mdpi.com/search?authors=Shamsuddin%20Shahid&orcid=0000-0001-9621-6452) S., (2019), Novel Hybrid Data-Intelligence Model for Forecasting Monthly Rainfall with Uncertainty Analysis, *Water*, Vol. *11, No.* 3, 502; <https://doi.org/10.3390/w11030502>. **(Q2 & IF= 2.524).**
70. Ebtehaj, I., **Bonakdari, H.,** Zaji, A.H., Sharafi, H.,(2019), Sensitivity analysis of parameters affecting scour depth around bridge piers based on the non-tuned, rapid extreme learning machine method, Neural Computing and Applications, Vol. 31, No. 12, pp. 9145-9156DOI: 10.1007/s00521-018-3696-6. **(Q1 & IF= 4.664)**
71. Gholami A., **Bonakdari H.,** Zaji A. H., Ajeel Fenjan S., Akhatri A. A., (2018), New radial basis function network method based on decision trees to predict flow variables in a curved channel. Neural Computing and Applications, Vol. 30, No. 9, pp. 2771-2785. DOI: 10.1007/s00521-017-2875-1. **(Q1 & IF= 4.213)**
72. Sheikh Z., **Bonakdari H.,** Zaji A. H., (2018), Estimating shear stress in a rectangular channel with rough boundaries using an optimized SVM method, Neural Computing and Applications. Vol. 30, No. 8, pp. 2555-2567. DOI: 10.1007/s00521-016-2792-8 **(Q1 & IF= 4.213)**
73. Ebtehaj I., **Bonakdari, H.,** Zaji A. H., (2018), A new hybrid decision tree method based on two artificial neural networks for predicting sediment transport in clean pipes, Alexandria Engineering Journal, Vol. 57, No. 3, pp. 1783-1795. DOI: 10.1016/j.aej.2017.05.021 **(Q3 & IF= 0.604)**
74. Shaghaghi S., **Bonakdari H.,** Gholami A., Kisi O., Shiri J., Binns A. D., Gharabaghi B., (2018), Stable alluvial channel design using evolutionary neural networks, Journal of Hydrology, Vol. 566, pp. 770-782. doi: 10.1016/j.jhydrol.2018.09.057. **(Q1 & IF= 3.727)**
75. Zeynoddin M., **Bonakdari H.,** Azari A., Ebtehaj I., Gharabaghi B., Riahi H. M., (2018), Novel hybrid linear stochastic with non-linear extreme learning machine methods for forecasting monthly rainfall a tropical climate, Journal of Environmental Management. Vol. 222, pp. 190-206. doi: 10.1016/j.jenvman.2018.05.072. **(Q1 & IF= 4.005)**
76. **Bonakdari H.,** Khozani Z.S., Zaji A.H., Asadpour N. (2018). Evaluating the apparent shear stress in prismatic compound channels using the Genetic Algorithm based on Multi-Layer Perceptron: A comparative study. Applied Mathematics and Computation, Vol. 338, pp. 400-411. doi: 10.1016/j.amc.2018.06.016 **(Q1 & IF= 2.300)**
77. Kazemian-Kale-Kale A., **Bonakdari, H.,** Gholami A., Sheikh Khozani Z., Akhtari A.A., Gharabaghi B. (2018). Uncertainty analysis of shear stress estimation in circular channels by Tsallis entropy. Physica A: Statistical Mechanics and its Applications, Vol. 510, pp. 558-576. doi: 10.1016/j.physa.2018.07.014 **(Q2 & IF= 2.132)**
78. (ANFIS-FFA WARM 2017) Mundher Yaseen Z., Ismaeel Ghareb M., Ebtehaj I., **Bonakdari H.,** Siddique R., Heddam S., Yusif A., Deo R., (2018), Rainfall Pattern Forecasting Using Novel Hybrid 4 Intelligent Model Based ANFIS-FFA, Water Resource Management, Vol. 32, No. 1, pp. 105-122. doi: 10.1007/s11269-017-1797-0 **(Q1 & IF= 2.644)**
79. Zaji A.H., **Bonakdari H.,** Gharabaghi B. (2018). Reservoir water level forecasting using group method of data handling. Acta Geophysica, Vol. 66, No. 4, pp. 717-730. doi: 10.1007/s11600-018-0168-4 **(Q4 & IF= 0.709)**
80. Gholami A., **Bonakdari H.,** Ebtehaj I., Gharabaghi B., Khodashenas S. R., Ashraf Talesh S. A., Jamali A., (2018), A methodological approach of predicting threshold channel bank profile by multi-objective evolutionary optimization of ANFIS. Engineering Geology, Vol. 239, pp. 298-309. doi: 10.1016/j.enggeo.2018.03.030 **(Q1 & IF= 3.100)**
81. (NCAA Junction 2018) Sharifipour M., **Bonakdari H.,** Zaji A.H., (2018),Comparison of genetic programming and radial basis function neural network for open channel junction velocity field prediction. Neural Computing and Applications, Vol. 30, No. 3, pp. 855-864. doi: 10.1007/s00521-016-2713-x. **(Q1 & IF= 4.213)**
82. Bostan M., Akhtari A. A., **Bonakdari H.,** Gharabaghi B., Noori A., (2018), Investigation of a new shock damper system efficiency in reducing water hammer excess pressure due to the sudden closure of a control valve, ISH Journal of Hydraulic Engineering, doi: 10.1080/09715010.2018.1479665. **(Q3 & IF= 0.23)**
83. Gholami A., **Bonakdari H.,** Ebtehaj I., Gharabaghi B., Khodashenas S. R., Ashraf Talesh S. A., Jamali A., (2018), Uncertainty analysis of intelligent model of hybrid genetic algorithm and particle swarm optimization with ANFIS to predict threshold bank profile shape based on digital laser approach sensing, Measurement, Vol. 121, pp. 294-303. doi: 10.1016/j.enggeo.2018.03.030. **(Q2 & IF= 2.218)**
84. (NCAA Hydraulic Jump 2018) Azimi H., **Bonakdari H.,** Ebtehaj I., Michelson D. G., (2018), A combined Adaptive Neuro Fuzzy Inference System-Firefly Algorithm Model for Predicting the Roller Length of a Hydraulic Jump on a Rough Channel Bed, Neural Computing and Applications. Vol. 29, No. 6, pp. 249-258. doi: 10.1007/s00521-016-2560-9. **(Q1 & IF= 4.213)**
85. Zaji A. H., **Bonakdari, H.,** Gharabaghi B., (2018), [Remote Sensing Satellite Data Preparation for Simulating and Forecasting River Discharge](https://authorgateway.ieee.org/ag/dc/Articleprogress?doi=10.1109/TGRS.2018.2799901), IEEE Transactions on Geoscience and Remote Sensing, Vol. 56, No. 6, pp. 3432-3441. doi: 10.1109/TGRS.2018.2799901. **(Q1 & IF= 4.662)**
86. (Water Resources Transition 2018) Asnaashari A., Akhtari A. A., Dehghani A. A., **Bonakdari H.,** (2018), Experimental and Numerical Investigation of the Flow Hydraulic in Gradual Transition Open Channels, Water Resources, Vo. 45, No. 4, pp. 565-577. doi: 10.1134/S0097807818040036. **(Q4 & IF= 0.397)**
87. Sheikh Khozani Z., **Bonakdari H.,** Zaji A. H., (2018), Mean bed shear stress estimation in a rough rectangular channel using a hybrid genetic algorithm based on an artificial neural network and genetic programming, Scientia Iranica, Vol. 25, No. 1, pp. 152-161. **(Q4 & IF= 0.475)**
88. Noori, A., **Bonakdari, H.,** Morovati, K., Gharabaghi, B., (2018), The optimal dam site selection using a group decision-making method through Fuzzy TOPSIS model, Environment Systems and Decisions, 38(4), pp. 471-488. doi: 10.1007/s10669-018-9673-x **(Q2 & IF= 1.040)**
89. (NCAA 2018) Karami H., Karimi S., **Bonakdari H.,** Shamshirband S. (2018), Predicting Discharge Coefficient of Triangular Labyrinth Weir Using Extreme Learning Machine, Artificial Neural Network and Genetic Programming. Neural Computing and Applications. Vol. 29, No. 11, pp. 983-989. doi:10.1007/s00521-016-2588-x **(Q1 & IF= 4.213)**
90. **Bonakdari, H.,** Zaji A. H., (2018), New type side weir discharge coefficient simulation using three novel hybrid adaptive neuro-fuzzy inference systems, Applied Water Science, Vol. 8, No. 15, pp. 1-15, doi: 10.1007/s13201-018-0669-y. **(Q4 & IF= 0.125)**
91. Ebtehaj I., **Bonakdari H.,** Moradi F., Gharabaghi B., Khozani Z. H., (2018), An integrated framework of Extreme Learning Machines for predicting scour at pile groups in clear water condition, Coastal Engineering, Vol. 135, pp. 1-15. doi: 10.1016/j.coastaleng.2017.12.012. **(Q1 & IF= 2.674)**
92. Sheikh Z., **Bonakdari H.,** Ebtehaj I., (2018), An expert system for predicting the shear stress distribution in circular open channels using gene expression programming, Water Science Engineering, Vol. 11, No. 2, pp. 167-176. doi: 10.1016/j.wse.2018.07.001. **(Q2 & IF= 0.48)**
93. Azimi H., Shabanlou S., Ebtehaj I., **Bonakdari H.,** (2018), Determining the Scour Dimensions around Submerged Vanes in 180o Bend with the Gene Expression Programming Technique, Journal of Marine Science and Application, 17(2), pp. 233-240. DOI: 10.1007/s11804-018-0025-5 **(Q3 & IF= 0.750)**
94. Ebtehaj I., **Bonakdari H.,** Gharabaghi B., (2018), Development of more accurate discharge coefficient prediction equations for rectangular side weirs using adaptive neuro-fuzzy inference system and generalized group method of data handling, Measurement, Vol. 116, pp. 473-482. DOI: [10.1016/j.measurement.2017.11.023](https://doi.org/10.1016/j.measurement.2017.11.023) **(Q2 & IF= 2.218)**
95. Azimi H., Shabanlou S., Ebtehaj I., **Bonakdari H.,** Kerdar S., (2018), Closure to “Combination of Computational Fluid Dynamics, Adaptive Neuro-Fuzzy Inference System, and Genetic Algorithm for Predicting Discharge Coefficient of Rectangular Side Orifices”, Journal of Irrigation and Drainage Engineering, ASCE, Vol. 144, No. 5, pp. 07018021. doi: 10.1061/(ASCE)IR.1943-4774.0001190 **(Q2 & IF= 1.360)**
96. Moeeni H., **Bonakdari H.,** (2018), Impact of Normalization and Input on ARMAX-ANN Model Performance in Suspended Sediment Load Prediction, Water Resources Management, Vol. 32, No. 3, pp. 845-863. doi: 10.1007/s11269-017-1842-z. **(Q1 & IF= 2.644)**
97. Zaji A.H., **Bonakdari H.,** Shamshirband S., (2018), Standard equations for predicting the discharge coefficient of as modified high performance side weir, Scientia Iranica, Vol. 25, No. 3A, pp. 1057-1069, doi: 10.24200/sci.2017.4198 **(Q4 & IF= 0.475)**
98. Azimi, H., **Bonakdari, H.,** Ebtehaj, I., Gharabaghi B., Khoshbin F., (2018), Evolutionary design of Generalized Group Method of Data Handling-type Neural Network for Estimating Hydraulic Jump Roller Length, Acta Mechanica, Vol. 229, No. 3, pp. 1197-1214. doi 10.1007/s00707-017-2043-9. **(Q2 & IF= 2.113)**
99. (Renyi Physica 2018) Sheikh Z., **Bonakdari H.,** (2018), Formulating the shear stress distribution in circular open channels based on the Renyi entropy, Physica A: Statistical Mechanics and its Applications. Vol. 490, pp. 114-126. doi: 10.1007/s11269-017-1797-0 **(Q2 & IF= 2.132)**
100. Bostan M., Akhtari A. A., **Bonakdari H.,** (2018), Deriving the governing equation for a shock damper to model the unsteady flow caused by sudden valve closure and sudden demand change, Journal of Water Supply: Research and Technology – AQUA. Vol. 67, No. 2, pp. 202-210. doi: 10.2166/aqua.2017.116. **(Q3 & IF= 1.179)**
101. (SERRA SARIMA-ANN 2017) Moeeni H., **Bonakdari H.,** (2017),Forecasting Monthly Inflow with Extreme Seasonal Variation Using the Hybrid SARIMA-ANN Model, Stochastic Environmental Research and Risk Assessment, Vol 31, No. 8, pp. 1997-2010. DOI: 10.1007/s00477-016-1273-z. **(Q1 & IF= 2.668)**
102. (Stable GMDH AMC 2017) Shaghaghi S., **Bonakdari H.,** Gholami A., Ebtehaj I., Zeinolabedini M., (2017), Comparative analysis of GMDH neural network based on genetic algorithm and particle swarm optimization in stable channel design, Applied Mathematics and Computation, Vol. 313, pp. 271-286. DOI: 10.1016/j.amc.2017.06.012. **(Q1 & IF= 2.300)**
103. (Streamflow JOH 2017) Zaher Mundher Yaseen Z. M., Ebtehaj I., **Bonakdari H.,** Deo R. C., Danandeh Mehr A., Melini Wan Mohtar W. H., Diop L., El-shafieh A., Singh V. P., (2017), Novel approach for streamflow forecasting using a hybrid ANFIS-FFa model, Journal of Hydrology, Vol. 554, pp. 263-276. doi: 10.1016/j.jhydrol.2017.09.007. **(Q1 & IF= 3.727)**
104. (Shear Stress RNN 2017) Sheikh Z., **Bonakdari H.,** Zaji A. H., (2017), Estimating the shear stress distribution in circular channels based on the randomized neural network technique, Applied Soft Computing Journal, Vol. 58, pp. 441-448. DOI: 10.1016/j.asoc.2017.05.024. **(Q1 & IF= 3.907)**
105. (Groyne ASCO 2017) Safarzadeh, A., Zaji A. H., **Bonakdari, H.,** (2017), Comparative Assessment of the Hybrid Genetic Algorithm–Artificial Neural Network and Genetic Programming Methods for the Prediction of Longitudinal Velocity Field around a Single Straight Groyne. Applied Soft Computing, Vol. 60, pp. 213-228, DOI: 10.1016/j.asoc.2017.06.048. **(Q1 & IF= 3.907).**
106. (Shear ELM UW 2017) Sheikh Z., **Bonakdari H.,** Zaji A. H., (2017), Efficient shear stress distribution detection in circular channels using Extreme Learning Machines and the M5 model tree algorithm. Urban Water Journal, Vol. 14, No. 10, pp. 999-1006. DOI: 10.1080/1573062X.2017.1325495. **(Q1 & IF= 2.744).**
107. (Sediment GEP 2017) Ebtehaj I., **Bonakdari, H.,** (2017), No-deposition Sediment Transport in Sewers Using Gene Expression Programming, Journal of Soft Computing in Civil Engineering, Vol. 1, No. 1, pp. 26-50.
108. Gholami A., **Bonakdari H.,** Akhatri A. A., Ebtehaj I., (2017) A combination of computational fluid dynamics, artificial neural network and support vectors machines model to predict flow variables in curved channel. Scientia Iranica, doi: 10.24200/SCI.2017.4520. **(Q4 & IF= 0.475)**
109. (Shear Stress RNN 2017) Sheikh Z., **Bonakdari H.,** Zaji A. H., (2017), Estimating the shear stress distribution in circular channels based on the randomized neural network technique, Applied Soft Computing Journal, Vol. 58, pp. 441-448. DOI: 10.1016/j.asoc.2017.05.024. **(Q1 & IF= 3.907)**
110. (Scour WASET 2017) **Bonakdari, H.,** Ebtehaj I., (2017), Scour Depth Prediction around Bridge Piers Using Neuro-Fuzzy and Neural Network Approaches, International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering, Vol. 11, No. 6, pp. 835-839.
111. (SVM-FFA Tillage 2017) Ghorbani M. A., Shamshirband S., Zare Haghi D., Azani A., **Bonakdari H.,** Ebtehaj I., (2017), Application of firefly algorithm-based support vector machines for prediction of field capacity and permanent wilting point, Soil & Tillage Research, Vol. 172, pp. 32–38, DOI: 10.1016/j.still.2017.04.009. **(Q1 & IF= 3.824)**
112. (ANFIS-DE AWS 2017) Ebtehaj I., **Bonakdari, H.,** (2017) Design of a Fuzzy Differential Evolution Algorithm to Predict Non-deposition Sediment Transport. Applied Water Science, Vol. 7, No. 8, pp. 4287-4299. DOI: 10.1007/s13201-017-0562-0.
113. (SARIMA-ANFIS Inflow WARM 2017) Moeeni H., **Bonakdari H.,** Ebtehaj I., (2017), Integrated SARIMA with Neuro-Fuzzy Systems and Neural Networks for Monthly Inflow Prediction, Water Resource Management, Vol. 31, No. 7, pp. 2141-2156. DOI 10.1007/s11269-017-1632-7. **(Q1 & IF= 2.644)**
114. (Shear Force IJRBM 2017) Sheikh Z., **Bonakdari H.,** Akhtari A. A., Zaji A. H., (2017), Estimating the shear force carried by walls in rough rectangular channels using a new approach based on the radial basis function method, International Journal of River Basin Management, Vol. 15, No. 3, pp. 309-305. DOI: 10.1080/15715124.2017.1307845. **(Q3 & IF= 0.357).**
115. (CERJ Shear Force 2017) **Bonakdari H.,** (2017), Comparison between Three Soft Computing Methods in Estimating Shear Force Carried by Walls in Rough Rectangular Channels, Civil Engineering Research Journal, Vol. 1, No. 1, 555554.
116. (Side Wier ID 2017) Azimi H., **Bonakdari H.,** Ebtehaj I., (2017), A highly efficient gene expression programming model for predicting the discharge coefficient in a side weir along a trapezoidal canal, Irrigation and Drainage, Wiley, Vol. 66, pp. 655–666. DOI: 10.1002/ird.2127. **(Q3 & IF= 0.707).**
117. (Energy EPR WST 2017) **Bonakdari H.,** Ebtehaj I., Akhbari A. (2017), Multi-Objective Evolutionary Polynomial Regression-Based Prediction of Energy Consumption Probing, Water Science & Technology, Vol. 75, No. 12, pp. 2791-2799. DOI: 10.2166/wst.2017.158. **(Q3 & IF= 1.247)**
118. (SVM Discharge 2017) Zaji A. H., **Bonakdari H.,** (2017), Optimum support vector regression for discharge coefficient of modified side weirs prediction, INAE Letters, Vol. 2, pp. 25-33. DOI 10.1007/s41403-017-0018-8.
119. (Shear GEP IJSR 2017) Sheikh Z., **Bonakdari H.,** Ebtehaj I., (2017), An analysis of shear stress distribution in circular channels with sediment deposition based on Gene Expression Programming, International Journal of Sediment Research, Vol. 32, No. 4, pp. 575-584. DOI: 10.1016/j.ijsrc.2017.04.004. **(Q3 & IF= 1.659)**
120. (Deposit RBF-SVM SWRM 2017) Sultan Q., Ebtehaj I., **Bonakdari H.,** (2017), Potential of Radial basis Function Network with Particle Swarm Optimization for Prediction of Sediment Transport at the Limit of Deposition in a Clean Pipe, Sustainable Water Resources Management, Vol. 3, No. 4, pp. 391-401. DOI 10.1007/s40899-017-0104-9.
121. (FSS Pareto Scour 2017) Azimi, H., **Bonakdari, H.,** Ebtehaj, I., Ashraf Talesh S. H., Michelson D., Jamali A., (2017), Evolutionary Pareto Optimization of an ANFIS Network for Modeling Scour at Pile Groups in Clear Water Condition, Fuzzy Sets and Systems, Vol. 319, pp. 50-69. doi: 10.1016/j.fss.2016.10.010. **(Q1 & IF= 2.675)**
122. (Wall Shear AWS 2017) Sheikh Z., **Bonakdari H.,** Zaji A. H., (2017), Using two soft computing methods to predict wall and bed shear stress in smooth rectangular channels, Applied Water Science, Vol. 7, No. 7, pp. 3973-3983. DOI: 10.1007/s13201-017-0548-y
123. (Time Series JOH 2017) Moeeni H., **Bonakdari H.,** Fatemi S. E., (2017) Stochastic model stationarization by eliminating the periodic term and its effect on time series prediction, Journal of Hydrology, Vol. 547, pp. 348-364. DOI: 10.1016/j.jhydrol.2017.02.012. **(Q1 & IF= 3.727)**
124. (Sharp Bend ANFIS Hydroinf 2017) Gholami A., **Bonakdari H.,** Ebtehaj I., Akhtari A. A. (2017), Design of an Adaptive Neuro-Fuzzy Computing Technique for Predicting Flow Variables in a 90° Sharp Bend, Journal of Hydroinformatics, Vol. 19, No. 4, pp. 572-585. DOI: 10.2166/hydro.2017.200. **(Q1 & IF= 1.797)**
125. (Chiu AJIRS 2017) Binesh N., **Bonakdari H.,** (2017), Discharge Estimation Based on Chiu’s Equation in Narrow Sewer Channels, Asian Journal of Innovative Research in Science, Engineering and Technology, Vol. 2, No. 6, pp. 1-7.
126. (Discharge Sensitivity FMI 2017) Azimi H., **Bonakdari H.,** Ebtehaj I., (2017), Sensitivity Analysis of the Factors Affecting the Discharge Capacity of Side Weirs in Trapezoidal Channels using Extreme Learning Machines, Flow Measurement and Instrumentation, Vol. 54, pp. 216-223. DOI: 10.1016/j.flowmeasinst.2017.02.005. **(Q3 & IF= 1.407)**
127. (INAE Reservoir Inflow 2017) Moeeni H., **Bonakdari H.,** Fatemi S. E., Zaji A. H., (2017), Assessment of Stochastic Models and a Hybrid Artificial Neural Network-Genetic Algorithm Method in Forecasting Monthly Reservoir Inflow, INAE Letters, Vol. 2, No. 1, pp. 13-23. doi: 10.1007/s41403-017-0017-9.
128. (Pipeline ASCE 2017) Ebtehaj I., **Bonakdari H.,** Shamshirband S., Ismail, Z., Hashim, R., (2017), A New Approach to Estimate Velocity at Limit of Deposition in Storm Sewers Using Vector Machine Coupled with Firefly Algorithm. Journal of Pipeline Systems - Engineering and Practice, ASCE, Vol. 8, No. 2, pp. 04016018 (1-12). doi: 10.1061/(ASCE)PS.1949-1204.0000252. **(Q3 & IF= 0.971)**
129. (EARTH Stable GMDH 2017) Gholami A., **Bonakdari H.,** Ebtehaj I., Shaghaghi S., Khoshbin F., (2017), Developing an expert group method of data handling system for predicting the geometry of a stable channel with a gravel bed, Earth Surface Processes and Landforms, Vol. 42, pp. 1460-1471.doi: 10.1002/esp.4104. **(Q1 & IF= 3.772)**
130. (Irrigation CFD ANFIS ASCE 2017) Azimi H., Shabanlou S., Ebtehaj I., **Bonakdari H.,** Kardar S., (2017), A Combination of Computational Fluid Dynamics, Adaptive Neuro Fuzzy Inference System and Genetic Algorithm for Predicting Discharge Coefficient of Rectangular side Orifices, Journal of Irrigation and Drainage Engineering, ASCE, Vol. 143, No. 7, pp. 04017015 (1-11). doi: 10.1061/(ASCE)IR.1943-4774.0001190. **(Q2 & IF= 1.616)**
131. (Scientica GMDH Incipient 2017) Ebtehaj I., **Bonakdari H.,** Khoshbin F., Hin Joo Bong C., Ab. Ghani A., (2017), Development of Group Method of Data Handling based on Genetic Algorithm to predict incipient motion in rigid rectangular storm water channel, Scientia Iranica, Vol. 24, No. 3, pp. 1000-1009. doi: 10.24200/SCI.2017.4083. **(Q4 & IF= 0.475)**
132. (JESS Inflow 2017) Moeeni H., **Bonakdari H.,** Ebtehaj, I., (2017),[Monthly reservoir inflow forecasting using a new hybrid SARIMA genetic programming approach](https://www.researchgate.net/publication/309763430_Monthly_reservoir_inflow_forecasting_using_a_new_hybrid_SARIMA_genetic_programming_approach?ev=prf_pub). Journal of Earth System Science, Vol. 126, pp. 1-18. DOI 10.1007/s12040-017-0798-y. **(Q3 & IF= 0.890)**
133. (IJCE Inlet 2016) Karimi S., **Bonakdari H.,** Karami H., Gholami A., Zaji A. H., (2017), Effects of Width Ratios and Deviation Angles on the Mean Velocity in Inlet Channels Using Numerical Modeling and Artificial Neural Network Modeling, International Journal of Civil Engineering, Vol. 15, No. 2, pp. 149-161, DOI: 10.1007/s40999-016-0075-5. **(Q3 & IF= 1.34)**
134. (Pipeline ASCE GMDH 2017) Najafzadeh M., **Bonakdari H.,** (2017), Application of a Neuro-Fuzzy GMDH Model for Predicting the Velocity at Limit of Deposition in Storm Sewers without Deposited Beds and Under Non-cohesive Bed Load Sediment Transport Conditions, Journal of Pipeline Systems - Engineering and Practice, ASCE, Vol. 8, No.1, 06016003-1:8. DOI: 10.1061/(ASCE)PS.1949-1204.0000249. **(Q3 & IF= 0.971)**
135. (Desalination 2017) Akhbari A., **Bonakdari, H.,** Ebtehaj, I., (2017), Evolutionary Prediction of Electrocoagulation Efficiency and Energy Consumption Probing, Desalination and Water Treatment, Vol. 64, pp. 54-63. DOI: 10.5004/dwt.2017.20235. **(Q3 & IF= 1.383)**
136. (Hydroinformatics SA-ELM 2016) Ebtehaj, I., Sattar A., **Bonakdari, H.,** Zaji, A.H., (2017), Prediction of Scour Depth around Bridge Piers Using Self-Adaptive Extreme Learning Machine, Journal of Hydroinformatics, Vol. 19, No. 2, pp. 207-224. DOI: 10.2166/hydro.2016.025. **(Q1 & IF= 1.797)**
137. (ARWW 2016) Gholami A., **Bonakdari H.,** Zaji A. H., Ajeel Fenjan S., Akhatri A. A., (2016), Developing finite volume method (FVM) in numerical simulation of flow pattern in 60° open channel bend, Journal of Applied Research in Water and Wastewater. Vol. 5, pp. 193-200.
138. (IJCE 2016 Sediment) Ebtehaj, I., **Bonakdari, H.,** (2016), A Comparative Study of Extreme Learning Machines and Support Vector Machines in Prediction of Sediment Transport in Open Channels, International Journal of Engineering, Vo. 29, No. 11, pp. 1499-1506.
139. (JNSNS 2016) Azimi, H., Shabanlou, S., Ebtehaj, I., **Bonakdari, H.** (2016), Discharge Coefficient of Rectangular Side Weirs on Circular Channels. International Journal of Nonlinear Sciences and Numerical Simulation, Vol 17, No. 7-8, pp. 391-399. DOI: 10.1515/ijnsns-2016-0033
140. (WSE 120 Bend 2017) Gholami A., **Bonakdari H.,** Akhatri A. A., Ajeel Fenjan S., (2016), Assessment of water depth pattern in 120° sharp bend using numerical model, Water Science and Engineering, Vol. 9, No. 4, pp. 287-292. DOI: 10.1016/j.wse.2017.01.005.
141. (IJCE 2016) Sheikh Z., **Bonakdari H.,** Zaji A. H., (2016), Comparison of Three Soft Computing Methods in Estimating Apparent Shear Stress in Compound Channels, International Journal of Engineering, Vo. 29, No. 9, pp. 1219-1226.
142. (Hazards 2016) Sharafi, H.,Ebtehaj, I., **Bonakdari, H.,** Zaji, A.H., (2016), Design of a Support Vector Machine with Different Kernel Functions to Predict Scour Depth around Bridge Piers, Natural Hazards, Vol. 84, No. 3, pp. 2145-2162. DOI: 10.1007/s11069-016-2540-5
143. (FMI SVR Weir 2016) Zaji A.H., **Bonakdari H.,** Shamshirband S., (2016), Support vector regression for modified oblique side weirs discharge coefficient prediction, Flow Measurement and Instrumentation, Vol. 51, pp. 1-7, DOI: 10.1016/j.flowmeasinst.2016.08.006
144. (ASCO DT-RBF Bend 2016) Gholami A., **Bonakdari H.,** Zaji A. H., Michelson D. G., Akhatri A. A., (2016), Improving the performance of multi-layer perceptron and radial basis function models with a decision tree model to predict flow variables in a sharp 90° bend, Applied Soft Computing, Vol. 48, pp. 563–583. doi: 10.1016/j.asoc.2016.07.035
145. (Fluvial hydraulics Stable 2016) **Bonakdari H.,** Gholami A., (2016) Evaluation of an artificial neural network model and statistical analysis relationships for predicting stable channel width, In: River Flow 2016, Special Session: Experimental techniques used in fluvial hydraulics, Constantinescu et al. (Eds), Taylor & Francis, London, UK, pp. 417-422. ISBN: 978-1-138-02913-2.
146. (WARM Fuzzy Delphi 2016) Minatour Y., **Bonakdari H.,** Shirmohammadi A. Z., (2016), Extension of Fuzzy Delphi AHP based on Interval-Valued Fuzzy Sets and its Application in Water Resource Rating Problems, Water Resources Management, Vol. 30, No. 9, pp. 3126-3141. doi: 10.1007/s11269-016-1335-5
147. (Urban Water Sediment 2016) Ebtehaj I., **Bonakdari H.,** (2016), Assessment of evolutionary algorithms in predicting non-deposition sediment transport, Urban Water Journal, Vol. 13, No. 5, pp. 499-510. DOI:10.1080/1573062X.2014.994003
148. (MSEJ SVM Alluvial 2016) Gholami, A., **Bonakdari, H.,** Ebtehaj, I., Fenjan S., (2016), Assessment and comparing of support vector machines model and regression equations for predicting alluvial channel geometry, Mesopotamia Environmental Journal, Vol. 2, No.1, pp. 56-64.
149. (FMI Junction ANN 2016) **Bonakdari H.,** Zaji A.H., (2016), Open channel junction velocity prediction by using a hybrid self-neuron adjustable artificial neural network, Flow Measurement and Instrumentation, Vol. 49, pp. 46-51. DOI: 10.1016/j.flowmeasinst.2016.04.003.
150. (WST DT-RBF Sediment 2016) Ebtehaj I., **Bonakdari H.,** Zaji A.H., (2016), An Expert System with Radial Basis Function Neural Network Based on Decision Trees for Predicting Sediment Transport in Sewers, Water Science & Technology, Vol. 74, No. 1, pp. 176-183. doi: 10.2166/wst.2016.064.
151. (Engineering & Computers Sediment 2016) Ebtehaj I., **Bonakdari H.,** Shamshirband S., (2016), Extreme Learning Machine Assessment for estimating sediment transport in open channels, Engineering with Computers, Vol. 32, No. 4, pp. 691-704. doi: 10.1007/s00366-016-0446-1.
152. (WST DT-MLP sediment 2016) Ebtehaj I., **Bonakdari H.,** Zaji A.H., (2016), A Nonlinear Simulation Method Based on a Combination of Multilayer Perceptron and Decision Tree for Predicting Non-deposition Sediment Transport, Water Science & Technology: Water Supply, Vol. 16, No. 5, pp. 1198-1206. doi: 10.2166/ws.2016.034.
153. (Meas Shear Force 2016) Sheikh Z., **Bonakdari H.,** Zaji A. H., (2016), Application of a genetic algorithm in predicting the percentage of shear force carried by walls in smooth rectangular channels, Measurement, Journal of the International Measurement Confederation, Vol. 87, pp. 87-98. Doi: 10.1016/j.measurement.2016.03.018
154. (EACFM Gradual Transition 2016) Asnaashari A., Akhtari A. A., Dehghani A. A., **Bonakdari H.,** (2016), Experimental and Numerical Investigation of the Flow Field in Gradual Transition of Rectangular to Trapezoidal Open Channels, Engineering Applications of Computational Fluid Mechanics, Vol. 10, No. 1, pp. 273-283, doi: 10.1080/19942060.2016.1149102
155. (IJE CFD Bend 2016) Ajeel Fenjan S., **Bonakdari H.,** Gholami A., Zaji A. H., Akhatri A. A., (2016), Flow Variables Prediction Using Experimental, Computational Fluid Dynamic and Artificial Neural Network Models in a Sharp Bend, International Journal of Engineering, Vol. 29, No. 1, pp. 14-22. doi: 10.5829/idosi.ije.2016.29.01a.03.
156. (WST Limiting Velocity 2016) Ebtehaj I., **Bonakdari H.,** (2016), A support vector regression-firefly algorithm-based model for limiting velocity prediction in sewer pipes, Water Science & Technology, Vol. 73, No. 9, pp. 2244-2250. doi: 10.2166/wst.2016.064
157. (KSCE ANFIS Side Weir 2016) Shamshirband S., **Bonakdari H.,** Zaji A.H., Petković D., Motamedi S., (2016), Improved side weir discharge coefficient modeling by adaptive neuro-fuzzy methodology, KSCE Journal of Civil Engineering, Vol. 20, No. 7, pp. 2999-3005. DOI: 10.1007/s12205-016-1723-7.
158. (Optimization GMDH Sediment 2016) Ebtehaj I., **Bonakdari H.,** Khoshbin F., (2016), Evolutionary design of a generalized polynomial neural network for modeling sediment transport in clean pipes, Engineering Optimization, Vol 78, No. 10, pp. 1793-1807. DOI: 10.1080/0305215X.2015.1137567.
159. (EACFM DT-MLP Bend 2016) Gholami A., **Bonakdari H.,** Zaji A. H., Ajeel Fenjan S., Akhatri A. A., (2016), Design of modified structure multi-layer perceptron networks based on decision trees for the prediction of flow parameters in a 90° open channel bends. Engineering Applications of Computational Fluid Mechanics, Vol. 10, No. 1, pp. 194-209. DOI: 10.1080/19942060.2015.1128358.
160. (FMI Wavelet 2016) Ebtehaj I., **Bonakdari H.,** Shamshirband S., Mohammadi K., (2016), A combined support vector machine-wavelet transform model for prediction of sediment transport in sewer, Flow Measurement and Instrumentation, Vol. 47, pp. 19-27. DOI: 10.1016/j.flowmeasinst.2015.11.002
161. (Applied Mathematics Firefly 2016) Zaji A.H**., Bonakdari H.,** Khodashenas S. R., Shamshirband S., (2016), Firefly optimization algorithm effect on support vector regression prediction improvement of a modified labyrinth side weir’s discharge coefficient, Applied Mathematics and Computation. Vol. 274, pp. 14-19. DOI: 10.1016/j.amc.2015.10.070.
162. (WST Shear Force 2016) Sheikh Z., **Bonakdari H.,** Zaji A. H., (2016), Application of a soft computing technique in predicting the percentage of shear force carried by walls in a rectangular channel with non-homogenous roughness, Water Science & Technology, Vol. 73, No. 1, pp. 124-129. DOI: 10.2166/wst.2015.470.
163. (Irrigation ASCE Transitions 2016) Asnaashari A., Akhtari A. A., Dehghani A. A., **Bonakdari H.,** (2016), Effect of Inflow Froude number on Flow Pattern in Channel Expansive Transitions, Journal of Irrigation and Drainage Engineering, ASCE, Vol. 142, No. 1. pp. 060150041-5 10.1061/(ASCE)IR.1943-4774.0000935, 06015004.
164. (MSEJ CFD Sharp Bend 2016) Ajeel Fenjan S., Gholami A**., Bonakdari H.,** Bagheri N. and Akhtari A. A. (2016), Comparison of flow pattern in a 60° sharp bend by Using FLUENT Software and Artificial Neural Network , Support Vector Machine Methods. Mesopotamia Environmental Journal, Vol. 2, No. 2, pp. 27-39
165. (JHH Incipient Motion 2016) Ebtehaj, I., **Bonakdari, H.,** Zaji, A.H., Bong, C.H.J., Ghani, A.A. (2016), Design of a new hybrid artificial neural network method based on decision trees for predicting the incipient motion of sediment in rigid rectangular storm water channels, Journal of Hydrology and Hydromechanics, Vol. 64, No. 3, pp. 252-260.
166. (Computations Velocity 2016) Binesh N., **Bonakdari H.,** (2016), Evaluating mathematical models for velocity distribution and dip phenomenon in rectangular open channels, Computations and Materials in Civil Engineering 2016, Volume 1, No. 2, 99-108
167. (Scientica Sediment 2016) Ebtehaj I., **Bonakdari H.,** (2016), Bed Load Sediment Transport in Sewers at Limit of Deposition, Scientia Iranica, 23(3), pp. 907-917. doi: 10.24200/SCI.2016.2169
168. (Scientica Shear Stress 2016) Sheikh Khozani Z., **Bonakdari H.,** (2016), Comparison of five different models in predicting the shear stress distribution in straight compound channels, Scientia Iranica, Vol. 23, No. 6, pp. 2536-2545. doi: 10.24200/SCI.2016.2312.
169. (Climatology Thermal 2016) Kariminia S., Motamedi S., Shamshirband S, Piri J., Mohammadi K., Hashim R., Roy C., Petković D., **Bonakdari H.,** (2016), Modelling thermal comfort of visitors at urban squares in hot and arid climate using NN-ARX soft computing method, [Theoretical and Applied Climatology](http://link.springer.com/journal/704). DOI: 10.1007/s00704-015-1462-6.
170. (KSCE Sediment 2016) Ebtehaj I., **Bonakdari H.,** (2016), Bed Load Sediment Transport Estimation in a Clean Pipe Using Multilayer Perceptron with Different Training Algorithms, KSCE Journal of Civil Engineering, Vol. 20, No. 2, pp. 581-589. DOI: 10.1007/s12205-015-0630-7
171. (Urban Water Shannon Entropy 2016) Sheikh Z., **Bonakdari H.,** (2016), Prediction of boundary shear stress in circular and trapezoidal channels with Entropy concept, Urban Water Journal, Vol. 13, No. 6, pp. 629-636. DOI: 10.1080/1573062X.2015.1011672.
172. (Optimization ANFIS-GA-SVD Side Weirs 2016) Khoshbin F., **Bonakdari H.,** Ashraf Talesh S. H., Ebtehaj I., Zaji A. H., Azimi H., (2016), ANFIS multi-objective optimization using Genetic Algorithm Singular Value Decomposition method for modeling discharge coefficient in rectangular sharp-crested side weirs, Engineering Optimization, Vol. 48, No. 6, pp. 933-948. DOI:10.1080/0305215X.2015.1071807.
173. (Mitteilungen Intake 2015) Karimi S., **Bonakdari H.,** Ebtehaj I., Zaji A. H., (2015), Prediction of Mean Velocity in Open Channel Intake Using Numerical Model and Gene Expression Programming, Mitteilungen Saechsischer Entomologen, Vol. 119, pp. 599-616.
174. (FMI Labyrinth Weirs 2015) Zaji A.H., **Bonakdari H.,** Karimi S. (2015), Radial Basis Neural Network and Particle Swarm Optimization-based equations for predicting the discharge capacity of triangular labyrinth weirs, Flow Measurement and Instrumentation, Vol. 45, pp 341-347. doi: [10.1016/j.flowmeasinst.2015.08.002](https://doi.org/10.1016/j.flowmeasinst.2015.08.002)
175. (IJE Flowmeter 2015) Sharifipour M., **Bonakdari H.,** Zaji A. H., (2015), Impact of the confluence angle on flow field and flowmeter accuracy in open channel junctions, International Journal of Engineering, Vol. 28, No. 8, pp 1145-1153.
176. (ASCO Side Weir GEP 2015) Ebtehaj I. , **Bonakdari H.,** Zaji A.H., Azimi H., Sharifi A., (2015), Gene Expression Programming to Predict the Discharge Coefficient in Rectangular Side Weirs, Applied Soft Computing, Vol. 35, pp 618-628. doi: [10.1016/j.asoc.2015.07.003](https://doi.org/10.1016/j.asoc.2015.07.003)
177. (FMI PSO Weir 2015) Zaji A.H**., Bonakdari H.,** Shamshirband S., Qasem S.N., (2015), Potential of particle swarm optimization based radial basis function network to predict the discharge coefficient of a modified triangular side weir. Flow Measurement and Instrumentation, Vol. 45, pp. 404-407. DOI: 10.1016/j.flowmeasinst.2015.06.007
178. (World Environment Weir 2015) Karimi S., **Bonakdari H.,** Gholami A., (2015), Determination Discharge Capacity of Triangular Labyrinth Side Weir Using Multi-Layer Neural Network (ANN-MLP). World Environment. Special Issue of Curr World Environ 2015;10 (1), pp 111-119.
179. **(**MeasurementANFISSensitivity 2015) **Bonakdari H.,** Zaji A.H., Shamshirband S., Hashim R., Petković D., (2015), Sensitivity analysis of the discharge coefficient of a modified triangular side weir by adaptive neuro-fuzzy methodology, Measurement, DOI: 10.1016/j.measurement.2015.05.021
180. (EACFM CFD Bend 2015) Gholami A., **Bonakdari H.,** Zaji A. H., Akhtari A.A., (2015), Simulation of open channel bend characteristics using computational fluid dynamics and artificial neural network, Engineering Application of Computational Fluid Mechanics Journal, DOI: 10.1080/19942060.2015.1033808
181. (Agriculture evapotranspiration 2016) Petković D., Gocic M., Trajkovic S., Shamshirband S., Pavlović N. T., **Bonakdari H.,** (2015), Determination of the most influential weather parameters on reference evapotranspiration by adaptive neuro-fuzzy methodology, Computers and Electronics in Agriculture, Vol. 114, pp 277-284. DOI: 10.1016/j.compag.2015.04.012
182. (ESTIJ GMDH Discharge Coefficient 2015) Ebtehaj I., **Bonakdari H.,** Zaji A. H., Azimi H, Khoshbin F., (2015), GMDH-Type neural network approach for modeling of discharge coefficient rectangular sharp-crested side weirs, Engineering Science and Technology: an International Journal. DOI: 10.1016/j.jestch.2015.04.012
183. (EACFM Flowmeter CFD 2015) Sharifipour M., **Bonakdari H.,** Zaji A. H., Shamshirband S., (2015), Numerical investigation of flow field and flowmeter accuracy in open-channel junctions. Engineering Applications of Computational Fluid Mechanics, Vol. 9, No. 1, pp. 280-290. DOI: 10.1080/19942060.2015.1008963
184. (Bulletin Intakes 2015) Karimi S., **Bonakdari H.,** Gholami A., (2015), Numerical examination of the effect of the location of flowmeters in intakes on flow velocity measurement accuracy, Bulletin of Environment, Pharmacology and Life Sciences, Vol. 4, No. 1, pp. 1-10.
185. (IJE Shear Stress 2015) **Bonakdari H.,** Tooshmalani M., Sheikh Z., (2015), Predicting Shear Stress Distribution in Rectangular Channels Using Entropy Concept, International Journal of Engineering, Vol. 28, No. 3, pp. 357-364.
186. (IJE AVF-AHP Cargo 2015) Mirzaei E., Minatour Y., **Bonakdari H.,** Javadi A. A., (2015), Application of Interval-Valued Fuzzy Analytic Hierarchy Process approach in selection Cargo Terminals, a Case Study, International Journal of Engineering***,*** Vol. 28, No. 3, pp. 384-392.
187. (EACFM Junction 2015) Zaji A.H., **Bonakdari H.,** (2015), Efficient methods for prediction of velocity fields in open channel junctions based on the artificial neural network, Engineering Application of Computational Fluid Mechanics Journal, Vol. 9, No. 1, pp.220-232. DOI:10.1080/19942060.2015.1004821
188. (KSCE Velocity 2015) **Bonakdari H.,** Moazamnia M., (2015), Modeling of Velocity Fields by the Entropy Concept in Narrow Open Channels, KSCE Journal of Civil Engineering, Vol. 19, No. 3, pp 779-789. DOI: 10.1007/s12205-013-0173-8
189. (FMI Pareto Side Orifice 2015) Ebtehaj I., **Bonakdari H.,** Khoshbin F., Azimi H., (2015), Pareto genetic design of group method of data handeling type neural network for prediction discharge coefficient in rectangular side orifices, Flow Measurement and Instrumentation, Vol. 41, pp. 67-74. DOI: 10.1016/j.flowmeasinst.2014.10.016.
190. (FMI Genetic Programming Junction 2015) Zaji A.H., **Bonakdari H.,** (2015), Application of artificial neural network and genetic programming models for estimating the longitudinal velocity field in open channel junctions. Flow Measurement and Instrumentation, Vol. 41, pp. 81-89. DOI: 10.1016/j.flowmeasinst.2014.10.011.
191. (SERRA Tsallis Entropy 2015) **Bonakdari H.,** Sheikh Z., Tooshmalani M., (2015), Comparison between Shannon and Tsallis entropies for prediction of shear stress distribution in open channels, Stochastic Environmental Research and Risk Assessment, Vol. 29, pp. 1-11. DOI :10.1007/s00477-014-0959-3
192. (IJE CFD Sediment 2015) Ebtehaj I., **Bonakdari H.,** Azimi H., (2015), Numerical analysis of sediment transport in sewer pipe, International Journal of Engineering, Vol. 28, No. 11, pp. 1564-1570.
193. (FMI GEP Bend 2015) Gholami A., **Bonakdari H.,** Zaji A. H., Akhtari A. A., Khodashenas S. R., (2015), Predicting the velocity field in a 90 open channel bend using a gene expression programming model, Flow Measurement and Instrumentation, Vol. 46, Part A, pp. 189-192, DOI: 10.1016/j.flowmeasinst.2015.10.006.
194. (River Flow SC 2014) **Bonakdari H.,** Ebtehaj I., (2014), Study of sediment transport using soft computing technique, In: River Flow 2014, Chapter 191, Schleiss et al. (Eds), Taylor & Francis, London, UK, pp. 1527-1533.
195. (River Flow Non Deposition 2014) **Bonakdari H.,** Ebtehaj I., (2014), [Verification of equation for non-deposition sediment transport in flood water canals](http://www.scopus.com.scopeesprx.elsevier.com/record/display.url?eid=2-s2.0-84906664118&origin=AuthorEval&zone=hIndex-DocumentList), In: River Flow 2014, Chapter 116, Schleiss et al. (Eds), Taylor & Francis, London, UK, pp. 933-940.
196. (JARWW Establishment 2014) **Bonakdari H.,** Lipeme-Kouyi G., Asawa G. L., (2014), Developing turbulent flows in rectangular channels: A parametric study, Journal of Applied Research in Water and Wastewater, Vol. 2, pp. 53-58.
197. (Applied mathematics Velocity 2014) Binesh N., **Bonakdari H.,** (2014),Investigating different models for estimation of longitudinal velocity distribution in rectangular open channels, Applied mathematics in Engineering, Management and Technology, pp. 19-27.
198. (FMI Side Weir PSO 2014) Zaji A.H., **Bonakdari H.**, (2014), Performance evaluation of two different neural network and particle swarm optimization methods for prediction of discharge capacity of modified triangular side weirs. Flow Measurement and Instrumentation. Vol. 40, pp. 149-156. DOI: 10.1016/j.flowmeasinst.2014.10.002
199. (IRJABS Velocity 2014) Binesh N., **Bonakdari H.,** (2014),Longitudinal Velocity Distribution in Compound Open Channels: Comparison of Different Mathematical Models, International Research Journal of Applied and Basic Sciences, Vol. 8, No. 9: pp. 1149-1157.
200. (WARM Sediment 2014) Ebtehaj I., **Bonakdari H.,** (2014), Performance Evaluation of Adaptive Neural Fuzzy Inference System for Sediment Transport in Sewer, Water Resources Management, Vol. 28, No. 13, pp. 4765-4779. DOI: 10.1007/s11269-014-0774-0.
201. (EACFM CFD Bend 2014) Gholami A., Akhtari A.A., Minatour Y., **Bonakdari H.,** Javadi A.A., (2014), An experimental and numerical study on velocity fields and water surface profile in a strongly curved 90º open channel bend, Engineering Application of Computational Fluid Mechanics Journal, Vol. 8, No. 3: pp. 447–461.
202. (JZUSA Self-cleansing 2014) Ebtehaj I., **Bonakdari H.,** Sharifi A., (2014), Design criteria for sediment transport in sewers based on self-cleansing concept, Journal of Zhejiang University-SCIENCE A, Vol. 15, No. 11, pp. 914-924. DOI: 10.1631/jzus.A1300135.
203. (Water Science Water Supply TOPSIS 2014) Minatour Y., **Bonakdari H.,** Zarghami M., Ali Bakhshi M., (2014), Water Supply Management using an Extended Group Fuzzy decision making Method: A Case Study in North-Eastern Iran, Applied Water Science, Vol. 5, No. 3, pp. 291-304. DOI 10.1007/s13201-014-0191-9.
204. (WST ICA Sediment 2014) Ebtehaj I., **Bonakdari H.,** (2014), Comparison of genetic algorithm and imperialist competitive algorithms in predicting bed load transport in clean pipe, Water Science & Technology, Vol. 70, No. 10, pp. 1695–1701. DOI: 10.2166/wst.2014.434
205. (EACFM Sediment ANN 2013) Ebtehaj I., **Bonakdari H.,** (2013), Evaluation of Sediment Transport in Sewer Using Artificial Neural Network, Engineering Application of Computational Fluid Mechanics Journal, Vol. 7, No. 3, pp. 382–392.
206. (RJAS Review Velocity 2013) Ahadi M.S., **Bonakdari H.,** (2013), Review of Models Introduced to Estimate the Distribution of Longitudinal Velocity in Open Channels based on Navier-Stokes Equations, Research Journal of Applied Sciences, Engineering and Technology, Vol. 6, No. 14, pp. 2612-2620.
207. (Hydraulic Eng ASCE Velocity 2014) Lassabatere L., Pu J., **Bonakdari H.,** Joannis C., Larrarte F., (2013), [Velocity distribution in open channel flows: Analytical approach for the outer region](http://www.scopus.com.scopeesprx.elsevier.com/record/display.url?eid=2-s2.0-84876734572&origin=AuthorEval&zone=hIndex-DocumentList). Journal of Hydraulic Engineering, ASCE, Vol. 139, No. 1, pp. 37–43.
208. (JBASR Velocity 2013) **Bonakdari H.,** Ahadi M.S., (2013), Comparison of Different Models for Evaluating the Velocity Profiles in Narrow Sewers, Journal of Basic and Applied Scientific Research, Vol. 3, No. 12, pp. 273–288.
209. (Water Science Discharge Entropy 2013) Moazamnia M., **Bonakdari H.,** (2013), Discharge Estimation by using Tsallis Entropy Concept, Journal of Water Sciences Research, Vol. 5, No. 2, pp. 43-55.
210. (WST Junction Flowmeter 2012) Mignot E., **Bonakdari H.,** Knothe P., Lipeme Kouyi G., Bessette A., Rivière N., Bertrand-Krajewski J. L., (2012), Experiments and 3D simulations of flow structures in junctions and their influence on location of flowmeters, Water Science & Technology, Vol. 66, No. 6, pp. 1325-1332.
211. (EACFM Bend Comparison 2012) Baghalian S., **Bonakdari H.,** Nazari F., Fazli M., (2012), Closed-form solution for flow field in curved channel in comparison with experimental and numerical analysis and artificial neural network, Engineering Application of Computational Fluid Mechanics Journal, Vol. 6, No. 4, pp. 514–526.
212. (KJCE Activated Sludge 2012) Zinatizadeh A. A. L., Bashiri H., Asadi A., **Bonakdari H.,** (2012), Comparison of different fluid dynamics in activated sludge system for the treatment of a stimulated milk processing wastewater: Process analysis and optimization, Korean Journal of Chemical Engineering, Vol. 29, No. 10, pp. 1352-1361.
213. (Environmental Management Velocity 2012) **Bonakdari H.,** (2012), Establishment of relationship between mean and maximum velocities in narrow sewers, Journal of Environmental Management, Vol. 113, pp. 474-480.
214. (Canadian Journal Discharge 2012) **Bonakdari H.,** (2012), A simple method for discharge estimation in narrow compound sewers by using entropy concept, Canadian Journal of Civil Engineering, Vol. 39, No. 3, pp. 339-343,
215. (Clean Sulfide 2011) Zinatizadeh, A. A. L., **Bonakdari H.,** Pirsaheb M., (2011), Response surface analysis and statistical modeling of sulfide generation from municipal wastewater, CLEAN - Soil, Air, Water Journal, Wiley. Vol. 39, No. 5, pp. 444-459. DOI: 10.1002/clen.201000372
216. (EACFM Bend GA 2011) **Bonakdari H.,** Baghalian S., Nazari F., Fazli M., (2011), Numerical analysis and prediction of the velocity field in a curved open channel using artificial neural network and genetic algorithm, Engineering Application of Computational Fluid Mechanics Journal, Vol. 5, pp. 384-396.
217. (FMI Flow Meter 2011) **Bonakdari H.,** Zinatizadeh A. A. L., (2011), [Influence of position and type of Doppler flow meters on flow-rate measurement in sewers using computational fluid dynamic](http://www.scopus.com.scopeesprx.elsevier.com/record/display.url?eid=2-s2.0-79954665467&origin=AuthorEval&zone=hIndex-DocumentList), Flow Measurement and Instrumentation, Vol. 22, pp. 225-234.
218. (Houille Blanche Vitesses 2010) Pu J.H., **Bonakdari H.,** Lassabatere L., Joannis C., Larrarte F., (2010), PROFIL DE VITESSES TURBULENT : UNE NOUVELLE LOI POUR LES CANAUX ETROITS, La Houille Blanche Revue Internationale de l'eau, Vol. 3, pp. 65-70.
219. (BLPC Qualification 2010) Larrarte F., Joannis C., **Bonakdari H.,** (2010), Qualification and design of flow meter measurement sites within sewer networks, Bulletin des Laboratoires des Ponts et Chaussées, No. 277, pp. 31-40.
220. (Waste Management 2010) Zinatizadeh, A. A. L., Pirsaheb M., **Bonakdari H.,** Younesi H., (2010), Response surface analysis of effects of hydraulic retention time and influent feed concentration on performance of an UASFF bioreactor, Waste MANAGEMENT, Vol. 30 , No. 10, pp. 1798-1807.
221. (WASJ Velocity 2009) **Bonakdari H.,** (2009), Numerical and experimental study of velocity profiles in sewers, World Applied Science Journal, Vol. 7, No. 6, pp. 735-743.
222. **Bonakdari H.,** (2009), Experimental and numerical study of velocity fields in compound section sewers, Journal of Science & Technology, New Series, Vol. 1, No.3, pp. 34-40.
223. (Renewable Energy 2009) Zinatizadeh A. A. L., Younesi H., **Bonakdari H.,** Pirsaheb M., Pazouki M., Najafpour G. D., Hasnain Isa M., (2009), [Effects of process factors on biological activity of granular sludge grown in an UASFF bioreactor](http://www.scopus.com.scopeesprx.elsevier.com/record/display.url?eid=2-s2.0-58649083454&origin=AuthorEval&zone=hIndex-DocumentList), Renewable Energy, Vol. 34, pp. 1245-1251, DOI: 10.1016/j.renene.2008.10.013.
224. (Houille Blanche Contraintes 2008) **Bonakdari H.,** Larrarte F., Joannis C., Levacher D., (2008), Champs de vitesses et contraintes de cisaillement dans un collecteur d’assainissement, La Houille Blanche Revue Internationale de l'eau, Vol. 3, pp. 20-25, DOI: 10.1051/lhb:2008022
225. **Bonakdari H**., (2008), Effect of a bend on the velocity zone in a circular sewer, Journal of Science & Technology, New Series, Vol. 1, No.1, pp. 1-5.
226. (BLPC Methodologie 2008) **Bonakdari H.,** Larrarte F., Joannis C., Levacher D., (2008), Méthodologie de qualification de site de mesures en réseau d’assainissement - Application à la débitmétrie en collecteur d’assainissement, Bulletin des Laboratoires des Ponts et Chaussées, No. 272, pp. 9-20.
227. (UW Shear CFD 2008) **Bonakdari H.,** Larrarte F., Joannis C., (2008), Study of shear stress in narrow channels : application to sewers, Journal Urban Water, Vol. 5, No. 1, pp. 15-20, DOI: 10.1080/15730620701726275
228. (EFM Velocity 2008) **Bonakdari H.,** Larrarte F., Joannis C., Lassabatere L., (2008), Turbulent velocity profile in fully-developed open channel flows, Journal Environmental Fluid Mechanics**,** Vol. 8, No. 1, pp. 1-17, DOI: 10.1007/s10652-007-9051-6.
229. (Revue Coude 2007) **Bonakdari H.,** Larrarte F., Joannis C., (2007), Coude et champs de vitesse en réseaux d’assainissement, Revue Européenne de Génie Civil, Vol. 11/4, pp. 507-519, DOI: 10.1080/17747120.2007.9692943
230. (TSM Vitesse 2007) **Bonakdari H.,** Larrarte F., Joannis C., Levacher D., (2007), Effets d’une déviation sur les champs de vitesses dans un collecteur d’assainissement, Techniques Sciences Méthodes, No. 11, pp. 43-50, DOI: 10.1051/tsm/200711043
231. (WPT Velocity 2007) **Bonakdari H.,** Larrarte F., Bardiux J. B., (2007), Experimental and computational study of velocity fields in narrow or compound section sewers, Water Practice & Technology, Vol. 2, No. 2, DOI: 10.2166/wpt.2007.040.