Bahareh Pirzadeh

Associate Professor

Faculty : Engineering

Departments : Civil Engineering

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Education

- B.Sc, Civil Engineering,Amirkabir University of Technology - 2004
- MS, Civil Engineering - Water Resource Management,K. N. Toosi University of Technology - 2008
- PhD, Civil Engineering - Water Resource Management,K. N. Toosi University of Technology - 2013

Courses

1. turbulence modeling
2. Groundwater
3. hydraulic Machinary
4. hydroinformatics
5. Statistical Hydrology Project
6. Statistics and probability in engineering

Master Thesis

1. Investigation of the effects of climate change on the environment and water needs of Marsh Crocodils (Mugger)

سهیلا ساراني, [Bahareh Pirzadeh, Dddd Jhg]

نیمسال دوم سال تحصیلي 01-00

2. Application of machine learning for the prediction of rainfall in southern Sistan and Baluchestan

محدثه بهاالديني, [Bahareh Pirzadeh,]

نیمسال اول سال تحصیلي 01-00

3. On the resolution of hydraulic jump in exactly well-balanced numerical schemes: A new approach for shallow water models

مجید اکبري, [Bahareh Pirzadeh]

نیمسال دوم سال تحصیلي 00-99

4. Multi-Objective Optimization of Shape and Body of Embankment Dams for reducing Design Costs

امین سندگل, [Gholamreza Azizyan, Bahareh Pirzadeh, V V]

نیمسال اول سال تحصیلي 00-99

5. Investigation of the Effect of Submergence Conditions on Scour Changes of Combined Series Dikes

سهیل رجب پور, [Bahareh Pirzadeh, Gholamreza Azizyan]

نیمسال اول سال تحصیلي99-98

6. Simulation of the effect of bed roughness on secondary flows in the open channel

نرجس شاه بیگي, [Bahareh Pirzadeh]

نیمسال دوم سال تحصیلي 97-96

7. sdefEvaluation of water demands in sistan watershed considering the second water transport system and the demand of 46000 hectar agricaltural lands and the assessment of dust stabilization demand.

نرگس دهمرده قلعه نو, [Seyed Arman Hashemi Monfared, Bahareh Pirzadeh, H H]

نیمسال اول سال تحصیلي 97-96

8. The Large Eddy Simulation (LES) technique for modeling turbulent flow on a roughness bed by OpenFOAM

ملیحه قویدل, [Bahareh Pirzadeh, F F]

نیمسال اول سال تحصیلي 97-96

Journals Papers

2023

1. Physical Hydraulic Modeling of Gabion Stepped Weirs with Upstream Blockage

Sanaz Hoseinian shirvan, Bahareh Pirzadeh, Rajaei Seyed Hossein , mahmood Shafai Bejestan

Volume: (18) 87 - 99

2. Experimental investigation of gabion broad-crested weirs under upstream partial blockage conditions

Sanaz Hoseinian shirvan, Bahareh Pirzadeh, Seyed Hosein Rajaei, Mahmood Shafai Bejestan

Water Supply Volume: (23) 2638 - 2648

3. Preserving stationary discontinuities in two-layer shallow water equations with a novel well-balanced approach

Majid Akbari, Bahareh Pirzadeh

JOURNAL OF HYDROINFORMATICS Volume: (25) 1979 - 2003

2022

4. Determination the optimal dimensions of concrete gravity dam by using metaheuristic algorithms (Comparison of algorithms)

Bahareh Pirzadeh, JAFAR JAFARI-ASL, Ali Mohtashami, Sima Ohadi

Volume: (46) 203 - 222

5. Determining optimized depth of wells by considering climate change and water resources management (Case study: Khash watershed

Ebrahim Zeraati, Samira Zeinoddini, Bahareh Pirzadeh, Seyed Arman Hashemi Monfared

Volume: (13) 160 - 174

6. Implementation of exactly well-balanced numerical schemes in the event of shockwaves: A 1D approach for the shallow water equations

Majid Akbari, Bahareh Pirzadeh

INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS Volume: (94) 849 - 895

7. Renovation and Upgrading of the Urban Water Distribution Systems by Multi-Objective Optimization Approach (Case Study: Part of Zahedan Distribution Network)

Peyman Arabi, Bahareh Pirzadeh, JAFAR JAFARI-ASL

Volume: (32) 1 - 16

2021

8. Reliability Analysis of Pumping Station for Sewage Network Using Hybrid Neural Networks - Genetic Algorithm and method of Moment

, Bahareh Pirzadeh, Behrooz Keshtegar, Mohammad Givehchi

PROCESS SAFETY AND ENVIRONMENTAL PROTECTION Volume: (145) 39 - 51

9. Probabilistic Modeling and Estimation of Flow Rate of Sewage Treatment Plant Using Monte Carlo Hybrid Method

, Bahareh Pirzadeh, Behrooz Keshtegar, Mohammad Givehchi

Volume: (31) 60 - 69

10. Determining Spatial and Temporal Variations of Groundwater Quality Parameters Using GIS and Interpolation Methods (Case Study: Sirjan Plain)

Bahareh Pirzadeh, Tahere Asvar

Volume: (11) 266 - 275

11. A hybrid statistical regression technical for prediction wastewater inflow

, Bahareh Pirzadeh, Behrooz Keshtegar, Mohammad Givehchi

COMPUTERS AND ELECTRONICS IN AGRICULTURE Volume: (184) 106115-1 - 106115-17

12. Reliability-based design and implementation of crow search algorithm for longitudinal dispersion coefficient estimation in rivers

Alireza Ghaemi, Tahmineh Zhiyan, Bahareh Pirzadeh, Seyed Arman Hashemi Monfared, Amir Mosavi

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH Volume: (28) 35971 - 35990

2020

13. Hydrodynamic characteristics of lock-exchange flow in curve channels in the presence of blocks

Elahe Hamzehnezhad bangodi, Gholamreza Azizyan, Bahareh Pirzadeh, a a

journal of hydrosciences and environment Volume: (8) 34 - 47

2019

14. Simulation of the Effect of Cartridge Geometry on Membrane Separation Processes

, Bahareh Pirzadeh, Davod Mohebbi Kalhori, Azam Abdollahi

Volume: (10) 30 - 40

2018

15. Numerical investigation of UF membrane to reduce energy consumption using double porosity approach

, Bahareh Pirzadeh, Davod Mohebbi Kalhori, Azam Abdollahi

WATER SCIENCE AND TECHNOLOGY Volume: (77) 2907 - 2916

16. Numerical Analysis of Transmembrane Pressure Changes in UF Systems by Changing the Geometry of the Inner Surface of Hollow Fibers

Bahareh Pirzadeh, Davod Mohebbi Kalhori, , Azam Abdollahi

Volume: (29) 51 - 60

2017

17. Generating Artificial Water Quality Data for No-Trend Parameters in Reservoirs (Chahnimeh No.1 in Sistan)

Bahareh Pirzadeh, , Seyed Arman Hashemi Monfared, Abas ali Ghaderi

Volume: (13) 226 - 232

18. Water Quality Planning inRivers Assimilative Capacity andDilution Flow

Seyed Arman Hashemi Monfared, , shane snyder, Gholamreza Azizyan, Bahareh Pirzadeh, Mehdi Azhdary Mo

BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY Volume: (99) 531 - 541

2016

19. Water quality prediction in one-dimensional flow by means of new advective transport function and convergence criteria modification

Seyed Arman Hashemi Monfared, , Bahareh Pirzadeh, Mehdi Azhdary Moghaddam

Volume: (23) 147 - 162

2015

20. Analysis of roughness density and flow submergence effects on turbulence flow characteristics in open channels using a large eddy simulation

, Bahareh Pirzadeh

APPLIED MATHEMATICAL MODELLING Volume: (39) 1074 - 1086

2013

21. Numerical simulation of rough open channel using LES

, Bahareh Pirzadeh

Science Series Data Report Journal Volume: (5) 107 - 121

Conferences Papers

2017

1. pollutant removal Of fluid Using microfiltration

The Second National Conference On Sustainable Development in Energy Water and Environmental Engineering Systems

, Bahareh Pirzadeh, Davod Mohebbi Kalhori, Azam Abdollahi

2. Comparison of Standardized Precipitation Index and Reclamation Drought Index for Monitoring and Zoning of Meteorological Drought in Sistan

1st International Conference on Climate Change

Bahareh Pirzadeh,

3. Investigation of triangulat obstacle on muddy flow using Flow-3D

16th Iranian Hydraulic Conference

Sakineh Safari, Mohammad Givehchi, Bahareh Pirzadeh

4. Numerical investigation of the effect of bed roughness on shear stress and velocity profile in open channel flow

International Conference on Civil Engineering Architecture and Urban Development of contemporary of IRAN

Farid Jamifar, Bahareh Pirzadeh

2016

5. Bernoulli concept in engineering and its application in the real world

International conference in applied research in civil engineering , architecture

Bahareh Pirzadeh,

6. Developed Werner-Wengle wall layer models in simulation of backward facing step channel

The International Conference On Fluvial Hydraulics,River Flow 2016

, Bahareh Pirzadeh,

2015

7. Water Quality Management by Means of Assimilative Capacity Considering Allowable Concentration and Affected Distance

14th National Conference on HYDRAULIC

Seyed Arman Hashemi Monfared, , Bahareh Pirzadeh, Mehdi Azhdary Moghaddam