د.علي محتشمي

أستاذ مساعد

Hydrogeology and Engineering Team...

كرسي اليونسكو لدراسات الأفلاج ـ أركيوهيدرولوجي

جامعة نزوى، سلطنة عمان

محول: 871

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موقع المكتب: 25B G-02..

يعمل في الجامعة: منذ 2022

الحالة الاجتماعية: Married..

Ali Mohtashami received his BSc in Civil Engineering from the University of Isfahan in 2014. Then he was accepted to the University of Birjand, from which he obtained his MSc in Civil Engineering, Water Resources Management in 2017 and then he got his PhD certificate from University of Sistan and Baluchestan in 2021. His PhD thesis was on the application of data assimilation method in meshless local Petrov-Galerkin groundwater flow simulation model. During his PhD, He was awarded as the top student by University of Sistan and Baluchestan, faculty of Engineering. He is currently a postdoctoral researcher in UNESCO chair of Aflaj studies Archaeohydrology (UCASA) at the University of Nizwa. He is a referee for more than 10 civil, water management and agricultural Journals. He has authored and co-authored over 20 scientific papers, two books and 2 research projects.

المؤهلات الأكاديمية

PhD of Civil Engineering ، University of Sistan and Baluchestan، 2021

MSc، Civil Engineering, University of Birjand، 2017

BSc، University of Isfahan، 2014

أنشطة التدريس

Lecturer in Birjand University of Technology، Courses: Fluid Dynamics, Hydraulic of Open Channels, Water and Waste water Treatment,، 2021-2022

Lecturer in University of Birjand، Courses: Water Machines، 2022-2023

Lecturer at Bozorgmehr University of Qaenat، Courses: Environmental Engineering, Fluid Dynamics، 2021-2022

Lecturer in Birjand University of Technology، Courses: Fluid Dynamics, Hydraulic of Open Channels، 2022-2023

Environmental Informatics، Fall 2023

Fundamentals of Air Pollution، Fall 2023

Energy and Environment، Spring 2024

Hydrology and Hydraulic، Spring 2024

الأنشطة البحثية

الاهتمامات البحثية ـ

Groundwater

Numerical Method

Aflaj Knowledge

Quality Modeling

Modeling and Simulation

العرض في المؤتمرات ـ

Estimation groundwater balance with using meshless local Petrov-Galerkin، ``. 1st National Conference on Modelling and New Technologies in Water Management، 2018

حضور المؤتمرات ـ

15th GCC Water Conference، Doha, Qatar، 28/04/2024

المنشورات ـ

مقال:

1. 2024 Hydraulic of sustainable groundwater resources, aflaj in Oman, using meshless numerical method
2. 2023 Presentation of a new decision-making plan for prioritizing the rehabilitation of (sustainable groundwater resources (case study: 9 aflaj of Oman
3. 2023 Data assimilation application in prediction of flowrate for a sustainable groundwater resource: Falaj Al-Khatmain, Oman
4. 2023 Models Are Essential for Water Resource Management
5. 2023 Inverse modeling application for aquifer parameters estimation using a precise simulation–optimization model
6. 2023 Qanat`s hydraulic harim determination by the usage of meshless numerical method
7. 2022 Numerical simulation of groundwater in an unconfined aquifer with a novel hybrid model ((case study: Birjand Aquifer, Iran
8. 2022 Numerical and Experimental Assessment of Suspended Material Effects on Water Loss Reduction from Irrigation Channels
9. 2022 Determination the optimal dimensions of concrete gravity dam by using metaheuristic

(algorithms (Comparison of algorithms

10. 2022 Application of random walk algorithm into finite element numerical groundwater model for capture zone depiction

11. 2022 Monitoring Network Design with MLPG-TLBO Hybrid Model (Case study Birjand, Iran

12. 2022 Application of Meshless local Petrov-Galerkin approach for steady state groundwater flow modeling

13. 2022 Numerical Investigation the effect of Groundwater Uplift on the Interface Between Fresh and Saline Water and Mixing Zone in the Aquifers Adjacent Deserts

14. 2021 Determination of Well`s Capture Zones Using Random Walk Algorithm and FeFlow Simulation Model

15. 2021 Leakage Detection in Water Distribution Networks by the Use of Analytical and Experimental Models

16. 2021 Estimation of Parameters in Groundwater Modeling by Particle Filter linked to the meshless local Petrov-Galerkin Numerical Method

17. 2020 Determination of the optimal location of wells in aquifers with an accurate simulation-optimization model based on the meshless local Petrov-Galerkin

18. 2020 Usage of Particle Filter for Exact Estimation of Constant Head Boundaries in Unconfined Aquifer

19. 2019 Numerical Simulation of Groundwater Recharge by Injection Wells with Using Meshless Local Petrov-Galerkin

20. 2019 Experimental and numerical investigation of the effects of muddy water on seepage reduction in earthen channels and dry zone of qanat

21. 2019 Determination of the capture zone of wells by using meshless local Petrov-Galerkin (numerical model in confined aquifer in unsteady state (Case study: Birjand Aquifer

22. 2019 Computation of Groundwater Balance Using Numerical MLPG Method (Case Study: (Birjand Unconfined Aquifer

23. 2019 Prediction of Groundwater Fluctuations Using Meshless Local Petrov-Galerkin Numerical (Method in a Field Aquifer (Birjand Aquifer

24. 2018 Investigation the effects of muddy water in decreasing seepage in the transition (channels (Case study: Ferdows, South Khorasan province

25. 2017 Development of two dimensional groundwater simulation model using meshless method based on MLS approximation function in unconfined aquifer in transient state

كتاب:

1. 2023 Novel Methods for Groundwater Management

2. 2020 Introduction to Groundwater Flow Modelling (Finite Element, Isogeometric and Meshless (Methods

الأنشطة الاستشارية

Research Expert، Regional Water Company، 2021- 2022

العضوية في الهيئات المهنية

- Iranian Hydraulic Association • 2022–الآن:
- Iranian Water Resources Management • 2021–الآن:
- Iranian Rainwater Catchments Systems Association • 2021–الآن:
- Iranian Water and Waste Water Association • 2021–الآن:

الجوائز والتقدير

- Elite Graduate Student of Engineering Faculty in University of Sistan & Baluchestan 2022
- Top Student of Engineering Faculty of Univesity of Sistan and Baluchestan 2020

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