Ali Khodagholi

LinkedIn Google Scholar GitHub

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Email: akhodagholi1 [at] gmail.com

Research Interests ♦ Climate Change and Adaption Agriculture

♦ Multi-Objective Optimization

♦ Water Resources Planning and Management

Crop Simulation Model

EDUCATION

♦ Iran University of Science and Technology, Tehran, Iran

(2018 - 2021)

Master of Science in Water Resources Management

Overall GPA: 18.92/20 (3.88/4.00)

Thesis Topic: Impacts of Climate Change on Irrigation Scheduling for Crops: Case Study Potato

Advisers: Prof. Abbas Afshar, and Dr. Saeed Soufizadeh

- Calibration of the SUBSTOR-Potato using GLUE model

- Generating future climate data using LARS-WG

- Simulation and optimization of crop growth using the DSSAT model

- Finding an optimum trade-off between water and nitrogen resources using meta-heuristic algo-

♦ Iran University of Science and Technology, Tehran, Iran

(2014 - 2018)

Bachelor of Science in Civil Engineering

Overall GPA: 16.68/20 (3.41/4.00)

Thesis Topic: Multi-objective optimization for sustainable groundwater management

Advisers: Prof. Abbas Afshar

Honors & AWARDS

- ♦ Ranked within the Top 1% among approximately 250,000 participants in the National Entrance Exam for Iranian universities (2014)
- ♦ Ranked within the top 20% among students of Civil Engineering at the end of Bachelor's degree, Iran University of Science and Technology. (2018)
- ♦ Direct master of science at IUST accepted as a highly ranked student (2018)
- ♦ Ranked 1st in the M.Sc. Water Resources Management Iran University of Science and Technology (2021)

PUBLICATIONS Abbas Afshar, Mohamad Amin Tavakoli, and Ali Khodagholi. "Multi-Objective Hydro-Economic Modeling for Sustainable Groundwater Management", Water Resources Management, DOI: 10.1007/s11269-020-02533-4 (Cited by: 18)

> ♦ Ali Kaveh, Pouya Almasi, and Ali Khodagholi. "Optimum design of castellated beams using four recently developed meta-heuristic algorithms", Iranian Journal of Science and Technology, Transactions of Civil Engineering, DOI: 10.1007/s40996-022-00884-z (Cited by: 11)

- ♦ Ali Khodagholi, Abbas Afshar , and Saeed Soufizadeh. "Optimization modeling of irrigation and nitrogen management under climate change for potato using SUBSTOR-Potato (DSSAT) model", under preparation.
- ♦ Mohammadmahdi Arabbafrani, Ali Khodagholi, and Reza Kerachian . "A Framework for Seasonal Groundwater Banking: A Case Study", under submission.

	Ali Khodagholi	
Academic Projects	 ♦ Soil-crop dynamic simulation based on FAO using MATLAB ♦ Water allocation of reservoir and river system simulation using WEAP ♦ Optimizing reservoir operation using Lingo ♦ Prediction of flood hydrograph using HEC-HMS ♦ Finding flood zones for flood management using HEC-RAS and ArcGIS ♦ Calculation of soil erosion based on RUSLE model using ArcGIS and ENVI 	
TEACHING EXPERIENCE	 Teaching Assistant of Water Resources System Analysis and Management (2019) for Dr. Alizadel Teaching Assistant of Engineering Hydrology (2018 - 2019) for Dr. Zahabiyoun. Teaching Assistant of Mechanic of Material (2017 - 2018) for Dr. Ghaderi. Teaching Assistant of Concrete Technology (2016) for Dr. Famili. 	1.
Selected Courses	 ♦ Water Resources Systems Analysis and Management Instructor: Dr. Alizadeh ♦ Advanced Engineering Hydrology Instructor: Dr. Zahabiyoun ♦ Flood and Drought Management Instructor: Prof. Afshar ♦ Risk, Uncertainty and Reliability Analysis Instructor: Dr. Alizadeh ♦ Application of RS and GIS in Civil Engineering Instructor: Dr. Mojaradi 	20 20 20
TECHNICAL SKILLS	 Expert in Programming with MATLAB, Python, C++, and Visual Basic. Expert in Water Resources and Agriculture Software: WEAP, ArcGIS, HEC-HMS, Lingo, DSSAT and LARS-WG. Fully familiar with Soft Computing, Meta-heuristic Optimization, and Crop Simulation Models. 	٦-,
Language Skills	 ◇ Persian: Native ◇ TOEFL: 99 ◇ GRE: General test will be taken on November 20th, 2023 	

♦ Designer in Mahab Ghods, Water Reservoir Projects in Tabriz and Zanjan

♦ Head of the Scientific Society of Civil Engineering at Iran University of Science and Technology,

♦ Editor-in-chief in Cement and Concrete Journal at at Iran University of Science and Technology,

(2021 - up to now)

(2017)

(2016 - 2017)

(2015 - 2016)

♦ Founder and Programmer of Online Game

Tehran, Iran

Tehran, Iran

Work

EXPERIENCE