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Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 2015 - 2019
Postgraduate, Urmia University, Water Engineering Department, Water Resources Engineering, Iran 2012 - 2014
Undergraduate, Urmia University, Water Engineering Department, Water Engineering, Iran 2008 - 2012

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Investigation of added utility of nonlinear techniques in rescaling soil moisture datasets, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2019

Research Areas

Civil Engineering, Water Resources Planning and Management, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2021 - Continues
Researcher, John Innes Centre, Department of Computational and Systems Biology, 2021 - 2021
Researcher, The University of Manchester, Department of Mechanical, Aerospace and Civil Engineering, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Current data and modeling bottlenecks for predicting crop yields in the United Kingdom**

Corcoran E., HESAMI AFSHAR M., Curceac S., Lashkari A., Raza M. M., Ahnert S., Mead A., Morris R.
Frontiers in Sustainable Food Systems, vol.7, 2023 (SCI-Expanded)

II. **Global spatiotemporal consistency between meteorological and soil moisture drought indices**
HESAMI AFSHAR M., Bulut B., DÜZENLİ E., Amjad M., YILMAZ M. T.
Agricultural and Forest Meteorology, vol.316, 2022 (SCI-Expanded)

III. **Comparative Evaluation of Microwave L-Band VOD and Optical NDVI for Agriculture Drought Detection over Central Europe**
Afshar M., Al-Yaari A., YILMAZ M. T.
REMOTE SENSING, vol.13, no.7, 2021 (SCI-Expanded)

IV. **Improving the Performance of Index Insurance Using Crop Models and Phenological Monitoring**
Afshar M., Foster T., Higginbottom T. P., Parkes B., Hufkens K., Mansabdar S., Ceballos F., Kramer B.
REMOTE SENSING, vol.13, no.5, 2021 (SCI-Expanded)

V. **Climate change impact assessment on mild and extreme drought events using copulas over Ankara, Turkey**
Afshar M., Sorman A. U., Tosunoglu F., Bulut B., YILMAZ M. T., MEHR A. D.
THEORETICAL AND APPLIED CLIMATOLOGY, vol.141, no.3-4, pp.1045-1055, 2020 (SCI-Expanded)

VI. **Climate change impacts on meteorological drought using SPI and SPEI: case study of Ankara, Turkey**
MEHR A. D., Sorman A. U., Kahya E., Afshar M.
HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES, vol.65, no.2, pp.254-268, 2020 (SCI-Expanded)

VII. **Impact of Rescaling Approaches in Simple Fusion of Soil Moisture Products**
Afshar M., YILMAZ M. T., Crow W. T.
WATER RESOURCES RESEARCH, vol.55, no.9, pp.7804-7825, 2019 (SCI-Expanded)

VIII. **Evaluation of Remotely-Sensed and Model-Based Soil Moisture Products According to Different Soil Type, Vegetation Cover and Climate Regime Using Station-Based Observations over Turkey**
Bulut B., YILMAZ M. T., Afshar M., Sorman A. U., YÜCEL İ., Cosh M. H., Simsek O.
REMOTE SENSING, vol.11, no.16, 2019 (SCI-Expanded)

IX. **The added utility of nonlinear methods compared to linear methods in rescaling soil moisture products**
Afshar M., YILMAZ M. T.
REMOTE SENSING OF ENVIRONMENT, vol.196, pp.224-237, 2017 (SCI-Expanded)

X. **Conditional Copula-Based Spatial-Temporal Drought Characteristics Analysis-A Case Study over Turkey**
Afshar M., Sorman A. U., YILMAZ M. T.
WATER, vol.8, no.10, 2016 (SCI-Expanded)

XI. **Development of Simulation-Optimization Model (MUSIC-GA) for Urban Stormwater Management**
Montaseri M., Afshar M., Bozorg-Haddad O.
WATER RESOURCES MANAGEMENT, vol.29, no.13, pp.4649-4665, 2015 (SCI-Expanded)

Metrics

Publication: 16
Citation (WoS): 163
Citation (Scopus): 164
H-Index (WoS): 8
H-Index (Scopus): 9