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Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: AAI-2418-2021

ScopusID: 56350402300

Yoksis Araştırmacı ID: 283045

Eğitim Bilgileri

Doktora, University of California, Davis, Civil and Environmental Engineering, Amerika Birleşik Devletleri 2004 - 2007

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 1997 - 2002

Araştırma Alanları

Hidrolik, Yüzey Suları Mühendisliği, Hidroloji, Su Kaynaklarının Planlanması, Tasarımı ve Yönetimi, Açık Kanal Hidroliği, Hidromekanik, Yeraltı Suları Mühendisliği

Akademik Unvanlar / Görevler

Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2022 - Devam Ediyor

Verdiği Dersler

Fluid Mechanics for Environmental, Geological, and Mining Engineers, Lisans, 2023 - 2024

Introduction To Groundwater Modeling, Lisans, 2022 - 2023

Hidromekanik, Lisans, 2022 - 2023

GROUNDWATER HYDRAULICS, Yüksek Lisans, 2023 - 2024

Probabilistic Systems Analysis for Civil Engineers , Lisans, 2017 - 2018

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. Use of one-dimensional CNN for input data size reduction in LSTM for improved computational efficiency and accuracy in hourly rainfall-runoff modeling**
Ishida K., Ercan A., Nagasato T., Kiyama M., Amagasaki M.
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- II. Multidimensional Governing Equations of Matrix Flow Component of Subsurface Stormflow as Function of Bedrock Surface Geometry**

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- III. **Generalizations of incompressible and compressible Navier–Stokes equations to fractional time and multi-fractional space**
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Scientific Reports, cilt.12, sa.1, 2022 (SCI-Expanded)
- IV. **Capabilities of deep learning models on learning physical relationships: Case of rainfall-runoff modeling with LSTM**
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- V. **Multi-time-scale input approaches for hourly-scale rainfall-runoff modeling based on recurrent neural networks**
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- VI. **Hybrid precipitation downscaling over coastal watersheds in Japan using WRF and CNN**
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JOURNAL OF HYDROLOGY-REGIONAL STUDIES, cilt.37, 2021 (SCI-Expanded)
- VII. **Space and Time Fractional Governing Equations of Unsteady Overland Flow**
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- VIII. **Numerical Evaluation of Fractional Vertical Soil Water Flow Equations**
Ercan A., Kavvas M. L.
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- IX. **Development of high-resolution 72 h precipitation and hillslope flood maps over a tropical transboundary region by physically based numerical atmospheric-hydrologic modeling**
Trinh T., Ho C., Do N., Ercan A., Kawas M. L.
JOURNAL OF WATER AND CLIMATE CHANGE, cilt.11, ss.387-406, 2020 (SCI-Expanded)
- X. **Coupling hydroclimate-hydraulic-sedimentation models to estimate flood inundation and sediment transport during extreme flood events under a changing climate**
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- XI. **Modeling One-Dimensional Nonreactive Solute Transport in Open Channel Flows Under Uncertain Flow and Solute Loading Conditions**
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JOURNAL OF HYDROLOGIC ENGINEERING, cilt.25, sa.8, 2020 (SCI-Expanded)
- XII. **Assessment of atmospheric conditions over the Hong Thai Binh river watershed by means of dynamically downscaled ERA-20C reanalysis data**
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JOURNAL OF WATER AND CLIMATE CHANGE, cilt.11, sa.2, ss.540-555, 2020 (SCI-Expanded)
- XIII. **Hourly-scale coastal sea level modeling in a changing climate using long short-term memory neural network**
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- XIV. **Self-similarity in fate and transport of contaminants in groundwater**
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- XV. **Trend analysis of watershed-scale annual and seasonal precipitation in Northern California based on dynamically downscaled future climate projections**
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JOURNAL OF WATER AND CLIMATE CHANGE, cilt.11, sa.1, ss.86-105, 2020 (SCI-Expanded)
- XVI. **Probabilistic solution to two-dimensional stochastic solute transport model by the Fokker-Planck**

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JOURNAL OF HYDROLOGY, cilt.580, 2020 (SCI-Expanded)

- XVII. **Fractional governing equations of transient groundwater flow in unconfined aquifers with multi-fractional dimensions in fractional time**
Kavvas M. L., Tu T., Ercan A., Polsinelli J.
EARTH SYSTEM DYNAMICS, cilt.11, sa.1, ss.1-12, 2020 (SCI-Expanded)
- XVIII. **Impacts of climate change on snow accumulation and melting processes over mountainous regions in Northern California during the 21st century**
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- XIX. **Impacts of Climate Change on the Hydro-Climate of Peninsular Malaysia**
Amin I. M. Z. b. M., Ercan A., Ishida K., Kavvas M. L., Chen Z. Q., Jang S.
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- XX. **One-dimensional solute transport in open channel flow from a stochastic systematic perspective**
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STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, cilt.33, sa.7, ss.1403-1418, 2019 (SCI-Expanded)
- XXI. **Reconstruction and evaluation of changes in hydrologic conditions over a transboundary region by a regional climate model coupled with a physically-based hydrology model: Application to Thao river watershed**
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- XXII. **Analysis of future climate change impacts on snow distribution over mountainous watersheds in Northern California by means of a physically-based snow distribution model**
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- XXIII. **Integrating global land-cover and soil datasets to update saturated hydraulic conductivity parameterization in hydrologic modeling**
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- XXIV. **Time-space fractional governing equations of transient groundwater flow in confined aquifers: Numerical investigation**
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HYDROLOGICAL PROCESSES, cilt.32, sa.10, ss.1406-1419, 2018 (SCI-Expanded)
- XXV. **Evaluating the Applicability of a Two-dimensional Flow Model of a Highly Heterogeneous Domain to Flow and Environmental Management**
Carr K. J., Tu T., Ercan A., Kavvas M. L.
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- XXVI. **Assessment of the effects of multiple extreme floods on flow and transport processes under competing flood protection and environmental management strategies**
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- XXVII. **Fractal scaling analysis of groundwater dynamics in confined aquifers**
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Kavvas M. L., Tu T., Ercan A., Polsinelli J.
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- XXIX. **Closure to "Time-Space Fractional Governing Equations of Unsteady Open Channel Flow" by M. L.**

Kavvas and A. Ercan

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- XXX. **Trend analysis of watershed-scale precipitation over Northern California by means of dynamically-downscaled CMIP5 future climate projections**
Ishida K., Gorguner M., Ercan A., Trinh T., Kavvas M. L.
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- XXXI. **Time-space fractional governing equations of one-dimensional unsteady open channel flow process: Numerical solution and exploration**
Ercan A., Kavvas M. L.
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- XXXII. **Scaling Relations and Self-Similarity of 3-Dimensional Reynolds-Averaged Navier-Stokes Equations**
Ercan A., Kavvas M. L.
SCIENTIFIC REPORTS, cilt.7, 2017 (SCI-Expanded)
- XXXIII. **Assessment of 21st century drought conditions at Shasta Dam based on dynamically projected water supply conditions by a regional climate model coupled with a physically-based hydrology model**
Trinh T., Ishida K., Kavvas M. L., Ercan A., Carr K.
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- XXXIV. **HYDRAULICS NEAR UNSCREENED DIVERSION PIPES IN OPEN CHANNELS: LARGE FLUME EXPERIMENTS**
Ercan A., Kavvas M. L., Carr K., Hockett Z., Bandeh H., Mussen T. D., Cocherell D., Poletto J. B., Cech J. J., Fangué N. A.
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- XXXV. **Governing equations of transient soil water flow and soil water flux in multi-dimensional fractional anisotropic media and fractional time**
Kavvas M. L., Ercan A., Polsinelli J.
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- XXXVI. **Time-Space Fractional Governing Equations of Unsteady Open Channel Flow**
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- XXXVII. **Future climate change impact assessment of watershed scale hydrologic processes in Peninsular Malaysia by a regional climate model coupled with a physically-based hydrology modelo**
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- XXXVIII. **Investigation of the groundwater modelling component of the Integrated Water Flow Model (IWFM)**
Ercan A., Dogrul E. C., Kadir T. N.
HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES, cilt.61, sa.16, ss.2834-2848, 2016 (SCI-Expanded)
- XXXIX. **Self-similarity in incompressible Navier-Stokes equations**
Ercan A., Kavvas M. L.
CHAOS, cilt.25, sa.12, 2015 (SCI-Expanded)
- XL. **Fish-protection devices at unscreened water diversions can reduce entrainment: evidence from behavioural laboratory investigations**
Poletto J. B., Cocherell D. E., Mussen T. D., Ercan A., Bandeh H., Kavvas M. L., Cech J. J., Fangué N. A.
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- XLI. **Fractional Governing Equations of Diffusion Wave and Kinematic Wave Open-Channel Flow in Fractional Time-Space. I. Development of the Equations**
Kavvas M. L., Ercan A.
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- XLII. **Fractional Governing Equations of Diffusion Wave and Kinematic Wave Open-Channel Flow in Fractional Time-Space. II. Numerical Simulations**
Ercan A., Kavvas M. L.

- JOURNAL OF HYDROLOGIC ENGINEERING, cilt.20, sa.9, 2015 (SCI-Expanded)
- XLIII. **Scaling and self-similarity in two-dimensional hydrodynamics**
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- XLIV. **Scaling and Self-Similarity of One-Dimensional Unsteady Suspended Sediment Transport with Emphasis on Unscaled Sediment Material Properties**
Carr K. J., Ercan A., Kavvas M. L.
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- XLV. **Fractional Ensemble Average Governing Equations of Transport by Time-Space Nonstationary Stochastic Fractional Advective Velocity and Fractional Dispersion. I: Theory**
Kavvas M. L., Kim S., Ercan A.
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- XLVI. **Fractional Ensemble Average Governing Equations of Transport by Time-Space Nonstationary Stochastic Fractional Advective Velocity and Fractional Dispersion. II: Numerical Investigation**
Kim S., Kavvas M. L., Ercan A.
JOURNAL OF HYDROLOGIC ENGINEERING, cilt.20, sa.2, 2015 (SCI-Expanded)
- XLVII. **Modified Water Diversion Structures Can Behaviorally Deter Juvenile Chinook Salmon from Entrainment**
Mussen T. D., Cocherell D. E., Patton O., Jauregui D., Ercan A., Bandeh H., Meier D., Thomas S., Kavvas M. L., Cech J. J., et al.
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- XLVIII. **Can behavioral fish-guidance devices protect juvenile Chinook salmon (*Oncorhynchus tshawytscha*) from entrainment into unscreened water-diversion pipes?**
Mussen T. D., Patton O., Cocherell D., Ercan A., Bandeh H., Kavvas M. L., Cech J. J., Fanguie N. A.
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- XLIX. **Scaling and self-similarity in one-dimensional unsteady open channel flow**
Ercan A., Kavvas M. L., Haltas I.
HYDROLOGICAL PROCESSES, cilt.28, sa.5, ss.2721-2737, 2014 (SCI-Expanded)
- L. **Unscreened Water-Diversion Pipes Pose an Entrainment Risk to the Threatened Green Sturgeon, *Acipenser medirostris***
Mussen T. D., Cocherell D., Poletto J. B., Reardon J. S., Hockett Z., Ercan A., Bandeh H., Kavvas M. L., Cech J. J., Fanguie N. A.
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- LI. **Efficacy of a sensory deterrent and pipe modifications in decreasing entrainment of juvenile green sturgeon (*Acipenser medirostris*) at unscreened water diversions**
Poletto J. B., Cocherell D. E., Mussen T. D., Ercan A., Bandeh H., kavvas M. L., Cech J. J., Fanguie N. A.
CONSERVATION PHYSIOLOGY, cilt.2, sa.1, 2014 (SCI-Expanded)
- LII. **Assessing Juvenile Chinook Salmon Behavior and Entrainment Risk near Unscreened Water Diversions: Large Flume Simulations**
Mussen T. D., Cocherell D., Hockett Z., Ercan A., Bandeh H., Kavvas M. L., Cech J. J., Fanguie N. A.
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- LIII. **The impact of climate change on sea level rise at Peninsular Malaysia and Sabah-Sarawak**
Ercan A., Bin Mohamad M. F., Kavvas M. L.
HYDROLOGICAL PROCESSES, cilt.27, sa.3, ss.367-377, 2013 (SCI-Expanded)
- LIV. **Ensemble Modeling of Hydrologic and Hydraulic Processes at One Shot: Application to Kinematic Open-Channel Flow under Uncertain Channel Properties and Uncertain Lateral Flow Conditions by the Stochastic Method of Characteristics**
Ercan A., Kavvas M. L.
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- LV. **Ensemble Modeling of Hydrologic and Hydraulic Processes at One Shot: Application to Kinematic Open-Channel Flow under Uncertain Channel Properties by the Stochastic Method of Characteristics**

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LVI. Prediction of Bank Erosion in a Reach of the Sacramento River and its Mitigation with Groynes

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LVII. Uncertainties in the prediction of flow in a long reach of the Sacramento River

Ercan A., Younis B. A.

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Diğer Dergilerde Yayınlanan Makaleler

I. Estimating the probability density function of nonlinearstochastic processes by use of asymptotic expansions in theKubo number

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II. BİR BOYUTLU TAŞINIM SÜREÇLERİNDE ÖLÇEKLEME ANALİZİ VE KENDİNE BENZEŞİM

ERCAN A.

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III. Current issues in and an emerging method for flood frequency analysis under changing climate

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Kitap & Kitap Bölümleri

I. Long-range Dependence and Sea Level Forecasting

ERCAN A., Kavvas M. L., Abbassov R. K.

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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. Extensions of Navier-Stokes-Euler Governing Equations of Fluid Flow to Fractional Time and Multi-Fractional Space

Kavvas M. L., ERCAN A.

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II. Comparison of three recurrent neural networks for rainfall-runoff modelling at a snow-dominated watershed

Yokoo K., Ishida K., Nagasato T., Ercan A., Tu T.

2021 International Conference on Geological Engineering and Geosciences, ICGoES 2021, Yogyakarta, Virtual, Endonezya, 16 - 18 Mart 2021, cilt.851

III. Dynamically Downscaled Precipitation over Northern California Based on CMIP5 Future Climate Projections

Ishida K., Kavvas M., Gorguner M., Trinh T., Ercan A.

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IV. Two-Dimensional Sediment Transport Modeling under Extreme Flood at Lower Cache Creek, California

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- V. **Assessment Study of 21st Century Drought Conditions at Shasta Dam Based on Dynamically Projected Water Supply and Water Demand**
Trinh T., Ishida K., Kavvas M., Ercan A., Carr K.
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- VI. **Investigations of Self-Similarity and Scale Invariance of One-Dimensional Unsteady Bedload Transport**
Carr K., Ercan A., Kavvas M.
16th World Environmental and Water Resources Congress 2016: Hydraulics and Waterways and Hydro-Climate/Climate Change, Florida, Amerika Birleşik Devletleri, 22 - 26 Mayıs 2016, ss.481-487
- VII. **Fractional Random Walk and Fractional Differential Equation Models of Transport by Time-Space Nonstationary Stochastic Fractional Flow**
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- VIII. **Atmospheric Model Component of an Atmospheric-Hydrological Model-Based Real-Time Flood Forecasting System for the Klzllrmak River Basin in Turkey**
Ishida K., Ercan A., Chen R., Ohara N., Kavvas M., Dağdeviren M., Selek B.
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- IX. **Hydrologic Model Component of an Atmospheric-Hydrologic Model-Based Real-Time Flood Forecasting System for the Klzllrmak River Basin in Turkey**
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- X. **Historical climatic and hydrologic modeling over a watershed at Peninsular Malaysia**
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- XI. **Two-dimensional sediment transport modeling in Cache Creek Settling Basin, California**
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- XII. **Two-dimensional unsteady flow modeling of flood inundation in a leveed basin**
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- XIII. **Scaling and Self-Similarity of One-Dimensional Suspended Sediment Transport Equations**
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- XIV. **Self-similarity in one-dimensional unsteady open channel flow through rectangular channels of varying width**
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- XV. **Ensemble modeling of kinematic open channel flow under uncertain channel properties**
Ercan A., Kavvas M.
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XVI. Sea level changes along the peninsular Malaysia and Sabah and Sarawak coastlines for the 21st century

Ercan A., Kavvas M. L., Mohamad M. F.

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XVII. Hydraulic and sediment transport modeling for Cache Creek Settling Basin, Woodland California

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World Environmental and Water Resources Congress 2010: Challenges of Change, Providence, RI, Amerika Birleşik Devletleri, 16 - 20 Mayıs 2010, ss.1634-1642

XVIII. Prediction of flow and bank erosion in the Sacramento River

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Bilimsel Dergilerdeki Faaliyetler

SCIENTIFIC REPORTS, Editörler Kurulu Üyesi, 2023 - Devam Ediyor

THE SCIENCE OF THE TOTAL ENVIRONMENT AN INTERNATIONAL JOURNAL FOR SCIENTIFIC RESEARCH INTO THE ENVIRONMENT AND ITS RELATIONSHIP WITH MAN, Editörler Kurulu Üyesi, 2021 - Devam Ediyor

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Bilimsel Kuruluşlardaki Üyelikler / Görevler

American Society of Civil Engineers, Asosiy Üye, 2019 - Devam Ediyor , Amerika Birleşik Devletleri

Environmental and Water Resources Institute's Hydroclimate Technical Committee, Üye, 2017 - Devam Ediyor , Amerika Birleşik Devletleri