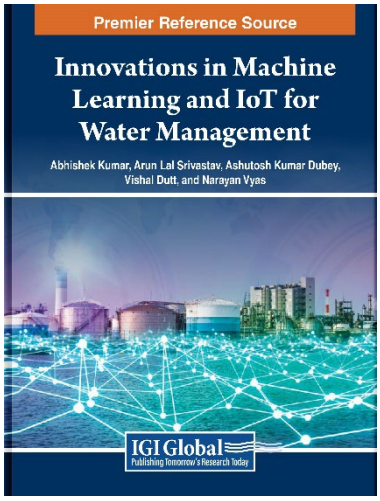
Innovations in Machine Learning and IoT for Water Management



Abhishek Kumar (Chandigarh University, India)
Arun Lal Srivastav (Chitkara University, India)
Ashutosh Kumar Dubey (University of Castilla-La Mancha, Spain)
Vishal Dutt (AVN Innovations Pvt. Ltd., India)
Narayan Vyas (Department of Computer Science and Application, Vivekananda Global University, India)

Description:

Water, our planet's life force, faces multiple challenges in the 21st century, including surging global demand, shifting climate patterns, and the urgent need for sustainable management. Guidance, knowledge, and hope is sharply needed in academia and technology industries, and Innovations in Machine Learning and IoT for Water Management is a formidable resource to provide these necessities. This book delves into the dynamic synergy of Artificial Intelligence (AI), Machine Learning (ML), and the Internet of Things (IoT), ushering in a new era of water resource stewardship.

This book embarks on a journey through the frontiers of AI and IoT, unveiling their transformative impact on water management. From the vantage point of satellite imagery analysis, it scrutinizes the Earth's vital signs, unlocking crucial insights into water resources. It chronicles the rise of AI-powered predictive analytics, a revolutionary force propelling precision water usage and conservation. This book explains how IoT can be an effective tool to increase intelligence of our water systems. The book meticulously navigates through domains as diverse as aquifer monitoring, hydropower generation optimization, and predictive analytics for water consumption. This book caters to a diverse audience, from water management experts and environmental scientists to data science aficionados and IoT enthusiasts. Engineers seeking to reimagine the future of water systems, technology enthusiasts eager to delve into AI's potential, and individuals impassioned by preserving water will all find a well-needed resource in these pages.

ISBN: 9798369311943 **Pages:** 312 **Copyright:** 2024 **Release Date:** 11/27/2023

Hardcover: $300 **Softcover:** $225 **E-Book:** $300 **Hardcover + E-Book:** $360

Topics

- Aquifer Monitoring
- Artificial Intelligence
- Blockchain-Enabled Water Trading
- Climate Change
- Data Science
- Environmental Science
- Flood Monitoring
- Internet of Things
- Machine Learning
- Predictive Analytics
- Resource Conservation
- Smart Water Systems
- Sustainability
- Wastewater Treatment
- Water Management

Subject: Computer Science and Information Technology
Readership Level: Advanced-Academic Level (Research Recommended)

Classification: Edited Reference
Research Suitable For: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

Order Information
Phone: 717-533-8845 x100
Toll Free: 1-866-342-6657
Fax: 717-533-8661 or 717-533-7115
www.igi-global.com
Address: 701 East Chocolate Avenue, Hershey PA, 17033, USA

IGI Global Scientific Publishing
Publishing Tomorrow's Research Today