

1. Record Nr.	UNINA9911066102103321
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Titolo	4th International Conference on Water and Environmental Engineering : Proceedings of iCWEE 2025 // edited by Ataur Rahman, Taha B. M. J. Ouarda, Muhammad Muhitur Rahman, Dharma Hagare, Zuhaib Siddiqui
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026
ISBN	9783032187086 9783032187079
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (1244 pages)
Collana	Lecture Notes in Civil Engineering, , 2366-2565 ; ; 822
Disciplina	628
Soggetti	Environmental engineering Civil engineering Water Hydrology Climatology Refuse and refuse disposal Environmental Civil Engineering Climate Sciences Waste Management/Waste Technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Regional vs. At-Site Probabilistic Wind Forecasting in NSW and QLD: A Comparative Study of Bayesian Adaptive Regression Trees, Gaussian Process Regression, and Quantile Random Forests -- Regional Flood Frequency Analysis Using Basin Proximity Concept -- Uncertainty analysis of Artificial Neural Network based Regional Flood Modelling in New South Wales, Australia -- LSTM-Based Rainfall Prediction: Univariate vs. Multi-variate Approaches -- A Framework for Assessing the Impact of Climate Change on Rainfall Extremes and Urban Flooding Using GIS Based SCS-CN and HEC-RAS Model -- Short-Duration Rainfall Analysis for Bangladesh -- Comparison of best and poor performing catchments in regional flood frequency analysis in Southeastern Australia -- Fuzzy Logic-Based Drought Index: A Case

Study of Goulburn Basin in Victoria, Australia.

Sommario/riassunto

This book gathers the proceedings of the 4th International Conference on Water and Environmental Engineering (iCWEE), held in Sydney, Australia, on November 19–21, 2025. Contributions include a wide range of topics in environmental engineering such as flood hydrology and hydraulics, stochastic and urban hydrology, climate change impacts on water resources, drinking water treatment, computational fluid dynamics, fluid mechanics, resource recoveries from biosolids and wastes, circular economy in water and environment, emergent pollutants, innovations in wastewater treatment, interaction of surface and groundwater, water security, environmental sustainability, irrigation, and hydraulic engineering.
