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Titolo	Advances in data-based approaches for hydrologic modeling and forecasting [[electronic resource] /] / [edited by] Bellie Sivakumar, Ronny Berndtsson
Pubbl/distr/stampa	Hackensack, N.J., : World Scientific, c2010
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Descrizione fisica	1 online resource (526 p.)
Altri autori (Persone)	SivakumarBellie BerndtssonRonny <1956->
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Soggetti	Hydrologic models Hydrological forecasting
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Setting the stage -- Stochastic methods for modeling precipitation and streamflow -- Model calibration in watershed hydrology -- Scaling and fractals in hydrology -- Remote sensing for precipitation and hydrologic applications -- Nearly two decades of neural network hydrologic modeling -- Evolutionary computing in hydrology -- Wavelet analyses in hydrology -- Nonlinear dynamics and chaos in hydrology -- Summary and future.
Sommario/riassunto	This book comprehensively accounts the advances in data-based approaches for hydrologic modeling and forecasting. Eight major and most popular approaches are selected, with a chapter for each - stochastic methods, parameter estimation techniques, scaling and fractal methods, remote sensing, artificial neural networks, evolutionary computing, wavelets, and nonlinear dynamics and chaos methods. These approaches are chosen to address a wide range of hydrologic system characteristics, processes, and the associated problems. Each of these eight approaches includes a comprehensive review of the fund