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   Autore   Chau Kwok Wing

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                        Wing Chau

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   Sommario/riassunto   Each year, extreme floods, which appear to be occurring more
                        frequently in recent years (owing to climate change), lead to enormous
                        economic damage and human suffering around the world. It is
                        therefore imperative to be able to accurately predict both the
                        occurrence time and magnitude of peak discharge in advance of an
                        impending flood event. The use of meta-heuristic techniques in
                        rainfall-runoff modeling is a growing field of endeavor in water
                        resources management. These techniques can be used to calibrate
                        data-driven rainfall-runoff models to improve forecasting accuracies.
                        This book, being also a Special Issue of the journal Water, is designed
                        to fill the analytical void by including fourteen articles concerning
                        advances in the contemporary use of meta-heuristic techniques in
                        rainfall-runoff modeling. The information and analyses are intended to
                        contribute to the development and implementation of effective
                        hydrological predictions, and thus, of appropriate precautionary
                        measures.