

Xuan

Flood Nowcasting

From Data to Decisions

Flood Nowcasting: From Data to Decisions provides a fully comprehensive overview on flood casting and why this new method of modeling has become a go-to tool for the increase in damaging floods around the world. Written by a global expert, the book covers the principle of flood nowcasting, hydrological models used in nowcasting, quantitative precipitation forecasts and estimation, weather radar-based rainfall now casts, model integration and uncertainty analysis, advanced topics and the latest technological progress, and hands-on guidance on flood nowcasting system building. The book offers comprehensive coverage of related theories, modeling paradigm and integration, algorithms, and technologies. From case studies presented, readers will be able to appreciate how individual components work. The hands-on guidance supported by an online tutorial will help readers build their own flood nowcasting system from scratch. Targeted readers for the book's content are academic researchers and PhD students in flood risk management, climate change, and extremes.



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