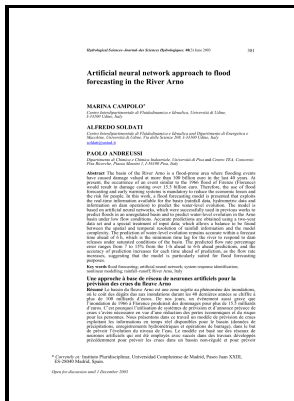


Investigation and application of flood prediction and forecasting models on catchments in the Severn and Trent basins.

University of Birmingham - The significance of rainfall in the study of hydrological processes at basin scale



Description: -

-investigation and application of flood prediction and forecasting models on catchments in the Severn and Trent basins.

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Notes: Thesis (Ph.D) - University of Birmingham, Dept of Civil Engineering.

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Real

It addresses how uncertainty is analysed in this field with the various approaches and identifies opportunities for handling it better.

Ensemble flood forecasting: A review

Weather radar allows point measurements of rainfall, from an often sparse raingauge network, to be complemented by spatially continuous measurements of the rainfall field and thereby, provide improved input to flood forecasting models. In: Joint meeting of Scottish branch of the institution of water and environmental management.

Ensemble flood forecasting: A review

It explores their advantages and limitations, highlights the most recent advances and discusses future directions. Precipitation is one of the most variable of the hydrologic processes and this raises two particular problems when studying hydrological processes of basin scale.

Flood inundation modelling: A review of methods, recent advances and uncertainty analysis

These developments are examined with an acknowledged emphasis on procedures developed at the Institute of Hydrology and particularly those methods which are incorporated in its River Flow Forecasting System or RFFS. The first is the extent to which the areal rainfall distribution can be determined from point measurements and the second is the degree to which errors in the assessment of true catchment rainfall affect the decision outcome. The paper reports on three empirical studies which focus on these particular problems.

The investigation and application of flood prediction and forecasting models on catchments in the Severn and Trent basins. (1979 edition)

Multi-model, multi-discipline approaches are recommended in order to further advance this research field. Prospects for future improvement are considered, focusing on the potential value of digital terrain models to formulate a new generation of distributed model appropriate for operational use in combination with radar rainfall and satellite-derived thematic data, for example on land-use.

The investigation and application of flood prediction and forecasting models on catchments in the Severn and Trent basins. (1979 edition)

. Operational medium range flood forecasting systems are increasingly moving towards the adoption of ensembles of numerical weather predictions NWP , known as ensemble prediction systems EPS , to drive their predictions.

The significance of rainfall in the study of hydrological processes at basin scale

This paper reviews state-of-the-art empirical, hydrodynamic and simple conceptual models for determining flood inundation.

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