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# **JOURNAL OF INDIAN WATER RESOURCES SOCIETY**

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### **GENERAL INFORMATION**

The Indian Water Resources Society (IWRS) is a multi-disciplinary organization dedicated to the advancement of the science and technology of water resources development and management. The IWRS Journal publishes original papers on scientific, engineering and socio-economic aspects that are clear, concise and presented in a style readily understood by an international audience. Before publication, the papers are reviewed by the Editor/reviewers. Detailed instructions for preparing manuscripts are included in the following. A review of previous issues will be helpful in organizing the manuscript.

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The title should be short, informative and should clearly reflect the content of the paper. The title should not exceed 15 words in length. Terms like Preliminary Investigations, Contributions to, Studies on etc., should be avoided.

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Cite references to published literature in the text sorted by author(s) and year, for example, Pasad (1994). Avoid using a numbering system. List all references in alphabetical order in the Reference section. Give the complete title of the reference and the source. Please follow the sample styles below.

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Gupta, S.K., 1999. "Engineering Hydrology", Tata Mc Graw-Hill Publishers, New Delhi

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**MESSAGE FROM GUEST EDITOR'S**

The current issue (Vol. 37, Number 3, July 2017) of IWRS journal shares the findings of the researches with all its esteemed members. It broadly covers research papers pertaining to floods, droughts, morphometry, runoff estimation, design of geo-textile filters, etc. The first paper discusses the role of climate change and anthropogenic activities on the occurrence of 2013 flood in Uttarakhand. The study is based on review of literature which suggests short and long-term measures needed for preventing and mitigating such extreme flood events in future. The second paper presents a drought study of Amritsar District (Punjab) based on average monthly rainfall data (period: 1901-2010) to determine monthly and yearly meteorological drought occurrences. The rainfall data was analysed for drought using Palmer Index and Standardized Precipitation Index following IMD (1971) norms. The third paper deals with the morphometric analysis of two major sub-basins of the Helmand River (Afghanistan) based on GIS approach. The study reveals that in absence of hydrologic data monitoring network, the morphological analysis can play a vital role in management of drainage basins in Afghanistan. In the fourth paper, WEPP model has been applied to simulate and quantify runoff on a small rangeland watershed located in Shivalik foot-hills of Punjab. Apart from the usual capability of WEPP to estimate erosion and sedimentation from watersheds, the model is equally capable of simulating and quantifying runoff from small rangeland watersheds on continuous basis with reasonable accuracy. The results can be used for planning environmental management practices. The fifth paper tests the usability of geotextile as a filter in an earthen dam made up of fly-ash and bentonite, easily available in the country. Experimental test results have been further validated using SEEP/W-GeoStudio 2007 software. The last paper deals with flood disaster risk management for a project site located in North India. The major analysis carried out in this study includes design flood estimation, dam break analysis, flood simulation analysis and design of local drainage system.

Hopefully, this issue of IWRS journal would be useful to its members and all other stakeholders working in the area of water.

**(Dr. S.K. Mishra)**  
Professor  
Department of WRD&M  
IIT Roorkee

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Rao, S.S., 1979. "Flood Control Regulation of Reservoirs", Journal of Indian Water Resources Society, 11(2), 19-26

*Chapter in Book or Paper in a Proceedings:*

Singhal, S.P. and Kasliwal, R., 1991. Calibration of Conceptual Catchment Models, in Applied Water Resourcing Planning, P.V. Narasimha (Editor). Tata Mc Graw Hill Publishing Co. New Delhi.

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