Special Issue

Nature-Orientated Hydraulic Engineering and Eco-Hydraulics

Message from the Guest Editor

In recent decades, the focus of hydraulic engineering research has shifted significantly from a purely technical approach towards an integrated combination of technical, ecological, and nature-orientated aspects. New terms such as nature-based solutions, green infrastructures, engineering with nature, eco-hydraulics, ecological engineering, and building with nature reflect the trend towards more ecologically friendly hydraulic structures. Research in this field does not only requires good knowledge of the relevant hydraulic processes but also an understanding of natural processes, short- and long-term hydraulic–ecological interactions, and the impacts of hydraulic structures on the environment. Therefore, research in eco-hydraulics ranges from a reduction and minimization of environmental impacts towards a replacement of traditional concrete structures by nature-based solutions. It is our objective to combine human needs with ecological requirements in an integrated and interdisciplinary approach.

Guest Editor

Prof. Dr. Holger Schüttrumpf

Institute of Hydraulic Engineering and Water Resources Management, RWTH Aachen University, Mies-van-der-Rohe-Straße 17, 52056 Aachen, Germany

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Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST
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