Special Issue

Advances in Spillway Hydraulics: From Theory to Practice

Message from the Guest Editors

In the past decades, significant advances have been achieved in the field of hydraulic structures for dams, in particular water release structures including spillways with chutes and their terminal energy dissipators. In addition to recent innovative projects, a large number of older spillways have been reexamined with regard to their suitability to pass the revised design flood estimates. Of these, many contain features which create complex flow patterns and make prediction of spillway capacity and performance uncertain. On the other hand, safe and reliable spillways are of paramount importance, considering that many dam failures were caused by improperly designed spillways with insufficient discharge capacity. In addition to providing sufficient discharge capacity, the arrangement of the spillway must be such that releases do not erode or undermine the downstream toe of the dam and its abutments. [...] For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/water/special_issues/spillway_hydraulic

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Deadline for manuscript submissions

closed (31 July 2022)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/69833

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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

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