Special Issue

Mathematical and Statistical Modeling Methods in Wastewater Treatment

Message from the Guest Editor

Mathematical and statistical modeling of the wastewater treatment process has gained increased interest and use for its numerous benefits in various domains such as plant design, process optimization, operational management, and system control. This Special Issue of the journal Water, “Mathematical and Statistical Modeling Methods in Wastewater Treatment,” aims to cover the development and application of modeling methods in wastewater treatment, including mathematical, statistical, and artificial intelligence (AI) approaches. Several major topics include: Modeling, numerical analysis, and simulation; Biological, physical, and chemical phenomena modeling; Mathematical programming; Statistical process analysis; Wastewater treatment process operation and management Water digitalization, data analytics, and water informatics; Novel technologies and their applications for control and optimization. The topics are not limited to mathematical and statistical modeling;other topics related to wastewater treatment modeling and computing technologies are welcome.

Guest Editor

Dr. Kijeon Nam

Department of Environmental Engineering, Pukyong National University, Busan 48513, Republic of Korea

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

mdpi.com/journal/water

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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
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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