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Measurements and Instrumentation in Hydraulic Engineering

Guest Editors:

Dr. Katinka Koll

submissions:

Message from the Guest Editors

Dr. Manousos Valvrakis Advances in hardware and software, as well as conceptual advances, have widened the range of tools and methods Dr. Massimo Guerrero available to measure key flow variables in fluvial and other natural or built environments. Nowadays, a range of lasers Dr. Rui M. L. Ferreira (3D LDV, stereo-PIV), acoustics (ADV, ADCP, ABS) and ultrasonics (UVP) are typically deployed towards obtaining flow field variables, driving our understanding of fundamental dynamical flow and transport processes. Optical flow methods are increasingly used by industrial Deadline for manuscript flow communities along with LDA/LDV and ultrasound closed (31 October 2021) velocimetry. Acoustic techniques (such as UVP or ADCP) enable the investigation of velocity fields along with sediment transport in harsh conditions. Laser-based methods can be used to reconstruct detailed bed surface morphologies, while advances in photogrammetry and 3D scanning enable of detailed the reconstruction bathymetries of channels and free-surface profiles.

> This Special Issue invites contributions that deal with novel aspects of flow and sediment transport monitoring and instrumentation across environments and scales and is promoted by the IAHR committee on Experimental Methods and Instrumentation.









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Editor-in-Chief

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Message from the Editor-in-Chief

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