Machine-Learning Methods and Tools in Coastal and Ocean Engineering

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Message from the Guest Editors

This Special Issue invites authors to submit original articles dedicated to innovative applications of machine learning methods in Coastal and Ocean engineering. These articles can be focused i) on demonstrating innovative solutions to reduce the parameter count and amount of training data (Extreme Learning Methods), simplifying the training step and shortening the computational time; ii) on adaptive machine-learning methods (Genetic Algorithm), to build up analytical formulae; iii) on innovative and advanced applications, such as optimization problems (e.g. the Harmony Search Algorithm for the design of coastal structures), pattern recognition (e.g., for the automatic detection of the free-surface, the estimation of the amount of air entrainment in bi-phase flows, the set-up of alarm systems based on video-monitoring), or cost minimization (e.g., for the setup of decision support systems).

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Special Issue

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Message from the Editor-in-Chief

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