

Engineering Protection of Coastal Water Environment



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Dr Law is currently Professor of Civil Engineering at CEE. He has been with the School since 1995, after a 7-year stint of practice in the industry in the USA. His research interests cover hydraulic and coastal engineering, environmental hydraulics, as well as process control of treatment facilities. In particular, he aspires to translate the research outcomes towards improving the engineering design in field scales. His research work had been recognised with awards by the American Society of Civil Engineers. He also chaired the Joint IAHR/IWA Committee on Marine Outfall Systems (2014-2016) and is currently the Editor-in-Chief of the Journal of Hydro-environment Research published by Elsevier. His recent research work focuses on coastal protection and field monitoring of coastal water environment.



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Abstract

Accelerating urbanisation of coastal cities is a megatrend globally, including Singapore. Protecting the coastal water environment during the urbanisation under climate change is critically important, and this is accomplished through proper design considerations in the expanding coastal infrastructure as well as impact assessment cum monitoring in the construction. The engineering practice improves over the years with the advancements in fundamental knowledge of environmental hydraulics and related technological innovations. Some examples will be illustrated in this presentation. In particular, an ongoing pilot-scale project to adopt UAV-based imaging systems for regulatory monitoring of turbidity plumes during coastal construction will be presented.