



Software Sensors in Ocean Engineering

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims at the problem of software sensors and their application in ocean engineering. Software sensors can be implemented as virtual sensors to identify the state of the system or to measure latent (unobservable) variables. Likewise, software sensors can be used as estimators of real variables offering advantages. In ocean engineering, an example might be a UV sensor used as a proxy to estimate solar radiation, or a fusion of multiple sensors to estimate fish abundance, or using fiber optic underwater cables to monitor seismic activity. Other approaches may focus on resource optimization. These can be extended to many different scenarios commonly associated with IoT. In addition to work that relates the topological architecture of a sensor network to the quality of the data acquired for a given domain, we are particularly looking forward to works that use deep neural networks or transfer learning (e.g., for satellite or multispectral data), as well as works that address signal reconstruction from sparse data (as in compressed sensing or one-shot learning).

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