Special Issue

Track Planning with Automatic Obstacle Recognition and Avoidance for Maritime Vessels

Message from the Guest Editor

Machine learning and artificial intelligence (AI) have expanded to several fields, from robotics to economic models, and enabled real-time algorithms to help plan the course of autonomous, non-autonomous, manned, or unmanned aircraft and surface vehicles. Especially for maritime vessels, and with automation and digitalization becoming increasingly central in their operation, optimum routing, path planning, and collision (with vessels, large objects, or large marine mammals) avoidance in complex sea environments emerge as areas where AI can play a pivotal role; in addition, multiobjective optimization algorithms, fuzzy logic, and other mathematical tools can solve complex problems in a practical and applied manner for use by modern marine vehicles.

Guest Editor

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