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## Development and Implementation of the Underwater Robot Enhanced by AI Methods

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### Message from the Guest Editors

To better complete tasks, underwater robots must consider different types of uncertainties and achieve efficient and robust interaction between the environment and the robot. Underwater robots should be able to make autonomous decisions to reduce the burden on operators. For example, robots can automatically adjust their motion control mode, select suitable sensors for data collection, or perform basic task planning based on environmental conditions and task requirements. In addition, virtual reality technology, posture recognition and other technologies can provide operators with more intuitive and immersive underwater robot operating experience. With the development of artificial intelligence technology and machine learning technology, underwater robots will continue to become intelligent, possessing higher levels of autonomous decision-making, autonomous control, and task planning capabilities. At the same time, they will also have multi-agent collaboration functions, which can achieve cooperation, joint cruising, and task execution among multiple robots.



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## Message from the Editor-in-Chief

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