

Special Issue

Unmanned Systems: Intelligent Perception, Autonomous Navigation, and Positioning

Message from the Guest Editors

Autonomous vehicles (AUV) have difficulty in exploring the unknown environment, such as underwater, air and other areas. To fuse various sensors carried and obtain high-precision information independently is an important issue of environment perception. For example, the underwater environment has the characteristics of poor light conditions, image tone shift, and sensor interference, which is not conducive to the work of autonomous underwater vehicles. Focusing on the positioning and mapping of autonomous underwater vehicles in unknown environment detection, this Special Issue mainly shows intelligent perception, autonomous navigation and positioning for unmanned systems, which enable them to more accurately and carefully locate and reconstruct underwater environments.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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