

Special Issue

Emerging Approaches to Intelligent and Autonomous Systems

Message from the Guest Editors

The impact of intelligent and autonomous systems (IAS) on modern society has continued to increase over the last few years. Most of these systems, in order to be called autonomous, operate in a dynamic environment and interact with other static and dynamic elements, exhibiting advanced behaviors that satisfy domain-specific requirements while serving a versatile range of functions.

A major challenge that has emerged of late is the seamless integration of service robots or, more broadly, autonomous/intelligent agents, into everyday environments. This is compounded by the need to make them easy to use and configure by non-roboticists, or people who lack high degrees of technical specialization, such as citizen developers. This Special Issue aims to gather relevant contributions, such as SLAM, localization, path planning, navigation, and exploration/coverage in the new paradigm of intelligent systems, the proposal of solutions towards tackling the above mentioned challenges, modern approaches in the field of IAS (including smart environments, robots, and autonomous cars), as well as novel applications in the relevant fields.

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Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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