Special Issue

Human–AI–Robot Teaming (HART)

Message from the Guest Editors

As AI systems and robots become more autonomous, their roles are shifting from being operated and controlled by humans to actively interacting with them. Humans in the loop possibly team up with AI, robots, or both. When working together, humans, AI, and robots can produce results that exceed what they can achieve alone as they can control and improve each other.

Effective team interaction, dynamics, and shared cognition are relevant in human–automation teaming. Agents and robots can thus be endowed with emotion recognition and be capable of empathy and of modelling aspects of the Theory of Mind (ToM), in the sense of being able to reconstruct what humans are thinking or feeling.

Human–automation interaction is a central theme in human-centered AI, encompassing considerations such as respect for human autonomy, harm prevention, fairness, and explainability. This topic is also pertinent to trustworthy AI, which emphasizes the need for AI systems to be reliable and ethical, and responsible AI, which advocates for the safe and ethical deployment of AI technology.

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Message from the Editor-in-Chief

It is my great pleasure to welcome you to our open access journal, *Robotics*, which is dedicated to both the foundations of artificial intelligence, bio-mechanics and mechatronics, and the real-world applications of robotic perception, cognition and actions. The 21st century is the robotics century and intelligent robots will change our lifestyle forever. Let us work together toward the realization of intelligent robots step by step.
It is great fun to create intelligent robots and imagine their practical applications. *Robotics* is now ready to serve you in the long journey towards such a goal.

Editor-in-Chief

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