

## Special Issue

# ***Toward Embodied Intelligence: State-of-the-Art in Sensing, Decision-Making and Control Technologies for Autonomous Robots (2nd Edition)***

### Message from the Guest Editors

With the advantages of noteworthy dexterity, maneuverability, and high efficiency in performing a growing variety of tasks, autonomous robots are becoming increasingly intelligent and complex with the ability to complete difficult operations with the comprehensive utilization of multimodal sensors, embodied intelligence frameworks, and large model-driven controllers. Autonomous robots can act in swarms with cognitive reasoning and offering total flexibility for industrial applications, which have expanded significantly from manufacturing and automation to healthcare, agriculture, and human-robot collaboration. This Special Issue aims to provide up-to-date research concepts, theoretical findings, and practical solutions for autonomous robots in relation to AI-augmented perception, embodied decision-making, and adaptive motion control, with a focus on sensorimotor coordination, human-robot value alignment, and safety-critical autonomy. We invite contributions that bridge theoretical advances and practical deployments, aiming to redefine the boundaries of autonomous robotics in the era of embodied intelligence.

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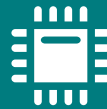
### Guest Editors

Dr. Yuanlong Xie  
Prof. Dr. Shuting Wang  
Prof. Dr. Shane Xie

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### Deadline for manuscript submissions

31 December 2026



## Sensors

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### Message from the Editor-in-Chief

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### Editor-in-Chief

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