# **Special Issue**

# Generative AI and Foundational Models for Robotics: Challenges, Developments and Applications

### Message from the Guest Editor

This Special Issue invites original research articles that explore the intersection of Al and robotics with a specific focus on generative Al, foundational models, and hybrid approaches of narrow gen Al capabilities. Research articles focusing on the related challenges of audio, visual, sensory, and training data; data management, learning, and reasoning algorithms for the robotic foundation models; the safety, ethics, and responsible practices of Al in robotics; and real-world practical applications of Al robotics are also a focus of this Special Issue.

### **Guest Editor**

Prof. Dr. Daswin De Silva

Centre for Data Analytics and Cognition, La Trobe University, Bundoora, VIC 3086, Australia

### Deadline for manuscript submissions

31 December 2025



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### **About the Journal**

### 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

Prof. Dr. Marco Ceccarelli

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