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Immersive Teleoperation and AI

Guest Editors:

Dr. Salvatore Livatino

Dr. Dario Calogero Guastella

Prof. Dr. Lucio Tommaso De Paolis

Dr. Daniele Ravi

Deadline for manuscript submissions:
closed (30 June 2023)

Message from the Guest Editors

Dear Colleagues,

In this Special Issue, you are invited to submit contributions describing novel approaches to the use of virtual reality, augmented reality and mixed reality, related to the tasks and application of telepresence and teleoperation, with particular attention to robotic applications. Contributions may also focus on applying novel artificial intelligence methods to this type of context and teleoperation. Potential topics include but are not limited to the following:

- VR/AR/MR for robotic teleoperation;
- Immersive telepresence and systems;
- User interfaces for remote monitoring and intervention;
- Immersive human–machine interaction;
- Immersive robot navigation and tele-control;
- Medical robotics and VR/AR applications in healthcare;
- VR/AR and 3D vision for remote surgery and medical intervention;
- Image analysis for teleoperation;
- AI-assisted tele-control;
- AI-enhanced sensor data for teleoperation.

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Editor-in-Chief

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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.

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