

CALL FOR PAPERS

Journal of Robotics and Mechatronics

Special Issue on “Robotics and Mechatronics Technology for Sports, Exercise, and Health Care”

Vol.36 No.4 (August 2024), Fuji Technology Press, Japan

Focus: Robotics, mechatronics, and digital technologies are actively being used in sports, exercise, and health care. Additionally, advancements in AI and robotics are expected to lead to even more innovative applications. Robotics technology plays a significant role in sports and exercise training. There is a growing interest in technology that enables training robots to monitor individual movement and form, providing feedback to the user and facilitating effective training. The combination of biosensor technology and digital technology is enhancing performance and health monitoring. Real-time data collection using wearable devices and smart sensors allows for measuring exercise performance and analyzing biometric data. Systems are also being developed that utilize AI and machine learning to analyze individual data and provide information to enhance performance and prevent injuries. VR and AR are offering groundbreaking experiences in the field of sports and exercise, with various applications in development, including training simulations, realistic recreations of competitive events, visual performance analysis, and virtual coaches for training instructions. In this special issue, we invite papers on the research and development of robotics, mechatronics, and digital technologies and systems in sports, exercise, and health care. We also welcome papers discussing the social implementation of these systems.

Editors: Takayuki TANAKA, Prof., Hokkaido University, Japan
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Akihiko MURAI, Senior Researcher, AIST, Japan

Important Dates:

Submission deadline **January 20, 2024**

Notification of acceptance/rejection May 20, 2024

Final manuscript submission June 20, 2024

Publication **August 20, 2024**

Submission/Contact to:

JRM Editorial Office, Fuji Technology Press, Japan: robot@fujipress.jp

- ◆ Papers should be submitted in Microsoft Word or PDF format. Details on submission and the journal are available at the following link: <https://www.fujipress.jp/jrm/>
- ◆ Submissions can be either Japanese or English. Submissions in Japanese will be translated by the publisher and used after being proofread by the author.
- ◆ Papers submitted to this special issue will undergo our usual review process. Paper may be published in general issues based on review results.

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