

International Journal of

Biomechatronics and Biomedical Robotics

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Scope of the Journal

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IJBRR provides a cross-disciplinary platform addressing biomechanics and robot assistive technologies for medical and bio applications. It relates to the design of systems, devices and products for use as assistive tools when interacting with humans and biosystems. It features practical developments covering a wide range of areas including medical robotics, rehabilitation, assistive technology for the elderly and disabled, robotic surgery aids/systems, operative planning tools, medical imaging/visualisation, simulation/navigation, virtual reality, intuitive command and control systems, haptics and sensor technologies.



Topics covered include:

- Biomechanics design philosophy
- Biomedical robotics, robotics for orthopaedics/medical/visceral/musculoskeletal surgery
- Rehabilitation robotics, robotics for stroke patients, wearable medical devices
- Microelectronics, embedded signal processing, low-power design
- Bioelectromagnetism, electrical bioimpedance, implantable electronics, biomaterials
- Bio-related MEMS, biomechanical devices, nanotechnologies
- New tools for surgical education/training
- New materials, new sensing/actuation technology, health monitoring devices
- Assistive technology for the injured, elderly and disabled; haptics, sensor technologies
- Medical imaging/visualisation, simulation/navigation, virtual reality, intuitive command/control
- Design of devices/systems requiring computer-based intelligence
- Biomechanical systems/biosystems modelling/simulation, system identification
- Advanced control for improving system performance, computer integration design
- Networked biomechanical systems for remote sensing/monitoring/diagnosis
- Mechatronic systems fault diagnosis/tolerance

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