

# Call for papers



## Complex mechatronic systems and materials for medical applications

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Complex mechatronic systems for medical applications is a topic that addresses intelligent electrical-mechanical systems that can be used in various medical applications, and provide assistance in improving the skill and overall operation of the combined human-machine system to achieve improved performance. Moreover, medical engineering is a complete mechatronic process. A mechatronic system has a multi-disciplinary nature; it encompasses several components: a mechanical structure, actuators (motors), sensors, a control computer, and a programming or human/machine interface. Mechatronics implements the 'concurrent engineering' design paradigm. It simultaneously combines several scientific/engineering disciplines, such as: machine design, structural dynamics, control engineering, real-time software engineering, actuator and sensor technology, optics, etc., in a synergetic way.

This special issue aims to provide a current perspective of complex mechatronic systems for medical applications, including fundamental aspects of its theory, illustrative applications and associated technologies.

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