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Automatic Control and Robotics in Biomedical Engineering

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Deadline for manuscript submissions:

closed (30 November 2023)

Message from the Guest Editors

The aim of this Special Issue is to highlight the competences of different automatic control areas in order to regulate, adjust or control medical devices designed to contribute to the treatment of diverse pathologies. Particularly encouraged are studies that focus on the application of automatic control tools to solving complex processes in designing, manufacturing, instrumenting, operating and controlling devices designed to contribute to the rehabilitation of pathologies.

Potential topics include but are not limited to the following:

- Automatic control in biomedical robotics;
- Robotic rehabilitation including automatic control theories;
- Adaptive and intelligent instrumentation of biomedical robots;
- Soft robotics in medical disciplines;
- Mechanical design of robots in biomedicine;
- Intelligent control of biomedical robots;
- Hybrid adaptive and robust control of biomedical robots;
- Automatic control of biomedical systems with state restrictions;
- Artificial intelligence for neuro robotic feedback;
- Control of infinite dimensional systems with application in biomedical systems;
- Applications of automatic control systems in pharmacological systems



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Special Issue



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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