MECHANISM AND MACHINE THEORY

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DESCRIPTION

Mechanism and Machine Theory provides a medium of communication between engineers and scientists engaged in research and development within the fields of knowledge embraced by IFToMM, the International Federation for the Promotion of Mechanism and Machine Science, therefore affiliated with IFToMM as its official research journal.

The main topics are:

Design Theory and Methodology; Haptics and Human-Machine-Interfaces; Robotics, Mechatronics and Micro-Machines; Mechanisms, Mechanical Transmissions and Machines; Kinematics, Dynamics, and Control of Mechanical Systems; Applications to Bioengineering and Molecular Chemistry

Methodologically, this includes theoretical, experimental, and/or historical approaches, along with their practical application, including education. Substantially, the journal aims at covering all subjects related to mechanisms and machines in general, such as: design theory and methodology, kinematics of mechanisms, rotor dynamics, computational kinematics, multibody dynamics, dynamics of machinery, nonlinear vibrations, linkages and cams, gearing and transmissions, transportation machinery, control and reliability of mechanical systems, including hydraulic and pneumatic systems, experimental test techniques, robots and robotic technologies, mechatronics, micromachines, human-machine interfaces, haptics, among others. Prospective fields of application of mechanism and machine science to other scientific areas such as bioengineering and molecular chemistry are also welcome.

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