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Dynamic Analysis of Multibody Mechanical Systems

Guest Editor:

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Message from the Guest Editor

The central goal of this Special Issue is to offer an overview of the state-of-the-art research in the kinematic, static, and dynamic analysis of multibody mechanical systems, on the development of effective and efficient algorithms to address these issues, and on the engineering applications that lie in this context. Consequently, the subjects covered in this Special Issue belong to a broad framework and encompass a wide range of fundamental aspects and engineering problems. The topics of interest for this Special Issue include, but are not limited to, mathematical modelling of articulated mechanical systems, dynamic and vibration analysis approaches, experimental model validation techniques, finite rotation deformation problems concerning rigid-flexible multibody systems, methodologies for formulating and solving the differential-algebraic equations of motion, nonlinear control techniques for controlling the dynamic behavior of multibody systems, developments in the finite element technologies, and advances in the kinematic and geometric description of the motion in general.











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Message from the Editor-in-Chief

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