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Collana	Mechanisms and Machine Science, , 2211-0992 ; ; 163
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Soggetti	Robotics Mechatronics Industrial engineering Production engineering Mechanics, Applied Robotic Engineering Industrial and Production Engineering Engineering Mechanics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Kinematic calibration of robots using a single draw wire encoder a comparison -- Evaluation of human body kinematics while riding electric kick scooter -- Development of a multibody based dynamic model of the rear hitch subsystem of an agricultural tractor -- Self calibration Method Using Tension Sensors for a Vertical Planar Cable Driven Parallel Robot -- Dynamic analysis of a quay crane using lumped parameter models -- Dynamic Error analysis for linear elasticity FE problems -- Torque and angular velocity estimation of an electric machine through Neural Networks based approach -- Evaluation of the maneuvering assistance effectiveness of two wheelchair powered assistance devices -- Nonlinear Dynamics of Spiral Bevel Gear axial bearing stiffness effect -- Characterization of a rotor test rig with tilting pad journal bearings for high peripherical speed -- The centrodes relevance for the kineto dynamic analysis of the parabolic

rigid body motion.

Sommario/riassunto

This book presents the proceedings of the 5th International Conference of IFToMM ITALY (IFIT), held in Turin, Italy on September 11–13, 2024. It includes peer-reviewed papers on the latest advances in mechanism and machine science, discussing topics such as biomechanical engineering, computational kinematics, the history of mechanism and machine science, gearing and transmissions, multi-body dynamics, robotics and mechatronics, the dynamics of machinery, tribology, vibrations, rotor dynamics and vehicle dynamics. A valuable, up-to-date resource, it offers an essential overview of the subject for scientists and practitioners alike and inspires further investigations and research.
