

## **MECHANISMS, MACHINES AND ROBOTS —THEORY AND APPLICATIONS**

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### **TOPICS**

- Synthesis, optimization and control of mechanisms
- Theoretical and applied kinematics of mechanisms
- Multibody modeling and simulation of mechanical systems
- Experimental investigation, diagnostics and identification of mechanical systems
- Dynamics and control of vehicles
- Automotive engineering and transportation systems
- Engines, powertrains, cams, gears and transmissions
- Mechatronics, servomechanics, actuation and control
- Analysis and design of robot manipulators
- Theoretical and applied kinematics of robots
- Motion planning for manipulators or mobile robots