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Soggetti	Computational intelligence Robotics Automation Artificial intelligence Computational Intelligence Robotics and Automation Artificial Intelligence
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Nota di contenuto	Automatic control and feedback loops in biology and medicine -- Normal Fractional Positive Linear Systems and Electrical Circuits -- Discrete, fractional order, cancellation controller -- Discrete, fractional order, cancellation controller -- Identification of fractional order transfer function model using biologically inspired algorithms -- Low Phase Shift and Least Squares Optimal FIR Filter -- Low Phase Shift Differential FIR Filter Design -- The Problem of the Optimal Strategy of Minimax Control by Objects with Distributed Parameters -- Transfer matrices with positive coefficients of positive descriptor continuous-time linear systems -- Study on wave simulator and hydraulic active heave compensation structure -- UAVs Fleet Mission Planning Subject to Weather Forecast and Energy Consumption Constraints.
Sommario/riassunto	This book consists of papers presented at AUTOMATION2019, an international conference held in Warsaw from March 27 to 29, 2019. It discusses the radical technological changes occurring due to the

INDUSTRY 4.0. To follow these changes, both scientists and engineers have to face the challenge of interdisciplinary approach directed at the development of cyber-physical systems. This approach encompasses interdisciplinary theoretical knowledge, numerical modelling and simulation as well as application of artificial intelligence techniques. Both software and physical devices are composed into systems that will increase production efficiency and resource savings. The theoretical results, practical solutions and guidelines presented are valuable for both researchers working in the area of engineering sciences and practitioners looking for solutions to industrial problems.

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