

1. Record Nr.	UNINA9910890192003321
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Titolo	Proceedings of the 5th International Conference on Electrical Engineering and Control Applications--Volume 1 : ICEECA 2022, 15-17 November, Khenchela, Algeria // edited by Salim Ziani, Mohammed Chadli, Sofiane Bououden, Ivan Zelinka
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819700455 9819700450
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (614 pages)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1147
Altri autori (Persone)	ChadliMohammed BououdenSofiane ZelinkaIvan <1965->
Disciplina	629.8312 003
Soggetti	Automatic control Signal processing Computational intelligence Telecommunication Control and Systems Theory Signal, Speech and Image Processing Computational Intelligence Communications Engineering, Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Consensus Approach Based Cooperative Guidance of a Multi-Quadrotors System -- ACO Based Optimal Integral Sliding Mode Controller Design for a New Reconfigurable Unmanned Aerial Vehicle -- Control of the Glucose Insulin Glucagon System in Type 1 Diabetes -- Trajectory Tracking Control For a Differential Drive Mobile Robot -- Waypoint Navigation of a Mobile Robot using IT2FLC with Wheel Slip Dynamic Modelling and Parameters Uncertainties -- Robust GPC using neural networks for phase-shifting transformers to compensate powers in a transmission line -- Robust Position and Attitude Tracking Control

of Unmanned Quadrotor -- Fuzzy Integral Sliding Mode Control of a Hyperdynamic Golf Swing Robot -- Continuous Joint Movements and Torques Estimation Using An Optimized State-Space EMG Model -- Application of Synergetic Technique in Sensorless Induction Motor drive based MRAS Method -- Passivity-based Sliding Mode Controller Design for Quadrotor using Ant Colony Optimization -- The Picard's Iteration Method for finding feedback control of linear quadratic optimal control problems -- Terminal Synergetic Theory-Based Trajectory Tracking Control of Quadrotor with Rotating Arms Exposed to External Disturbances -- Sensorless Three-Level Direct Torque Control of a Five-Phase PMSM Using Sliding Mode Observer -- Vision-Based Modeling and Control of Quadcopter for Uncooperative Ground Mobile Target Tracking -- Linear Quadratic Regulator Control of Heating System in Office Building -- Adaptive Control design with saturation constraints for different experimental glucose models.

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### Sommario/riassunto

This book gathers papers presented during the 5th International Conference on Electrical Engineering and Control Applications (ICEECA 2022), held on November, 15–17, 2022, Khenchela, Algeria. It covers new control system models, troubleshooting tips, and complex system requirements, such as increased speed, precision, and remote capabilities. Additionally, the book discusses not only the engineering aspects of signal processing and various practical issues in the broad field of information transmission, but also novel technologies for communication networks and modern antenna design. The later part of the book covers important related topics such as fault diagnosis and fault-tolerant control strategies for nonlinear systems and alternative energy sources. This book is intended for researchers, engineers, and advanced postgraduate students in the fields of control and electrical engineering, computer science, signal processing, as well as mechanical and chemical engineering.

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