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Altri autori (Persone)	Giumlia-Mair, Alessandra R.author Lo Schiavo, Fulvia.author
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Autore	Campos Canton Eric
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Altri autori (Persone)	Huerta CuellarGuillermo Zambrano SerranoErnesto Tlelo-CuautleEsteban
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Nota di contenuto	Part 1: Artificial Intelligence Applied to Dynamics and Complexity -- Chapter 1. Classification of Chaotic Dynamics Through Time-Frequency Representations and Machine Learning -- Chapter 2. Optimization of echo state neural networks to solve classification problems -- Chapter 3. Deep Learning in the Expansion of the Urban Spot -- Part 2: Biomedical Advancements in Rehabilitation Through Complex Systems -- Chapter 4. Solving Inverse Kinematics Problem for Manipulator Robots Using Artificial Neural Network with Varied Dataset Formats -- Chapter 5. CRNN-based Classification of EMG Signals for the Rehabilitation of the Human Arm -- Chapter 6. LMI-based Design of a

Robust Affine Control law for the Position Control of a Knee Exoskeleton Robot: Comparative Analysis of Stability Conditions -- Chapter 7. Position Control of Robotic Systems via Linear Controllers with Application to a Lower Limb Rehabilitation Exoskeleton Robot: Design and Comparative Analysis -- Part 3: Controlling Dynamical and Complex Systems -- Chapter 8. Synchronization of memristive Hindmarsh-Rose neurons connected by memristive synapses -- Chapter 9. A systematic approach for Multi-switching compound synchronization of non-identical chaotic systems using optimal control -- Chapter 10. Limit Cycle Generation by Inducing the Controllable Hopf Bifurcation -- Chapter 11. Cascading Timers: The new method to Solve the Sequential Problems Including Timers in Automation Systems -- Chapter 12. Mixed Sensitivity Control of Euler-Lagrange Models -- Part 4: Applications of Chaotic and Complex Systems -- Chapter 13. A New 4-D Four-Scroll Hyperchaotic System with Multistability, Coexisting Attractors and its Circuit Realization -- Chapter 14. Secure Communication System Based on Multi-Stability: Evaluation using the SCAMPER Method for Innovation Projects -- Chapter 15. An Image Compression and Encryption Approach with Convolutional Layers, Two Dimensional Sparse Recovery and Chaotic Dynamics -- Chapter 16. Comparative study of the viscoelastic behavior on PLA filaments, a fractional calculus approach -- Chapter 17. A New 4-D Highly Chaotic Two-Scroll System with a Hyperbola of Equilibrium Points and its Circuit Simulation.

Sommario/riassunto

This book is a compilation of scientific articles written by recognized researchers participating in the Fourth Conference on the Study of Complex Systems and their Applications (EDIESCA 2023), held in Monterrey, Mexico. EDIESCA arose from the need for academic and research groups that carry out this scientific research to disseminate their results internationally. The study and characterization of systems with non-linear and/or chaotic behavior has been of great interest to researchers around the world, for which many important results have been obtained with various applications. The dynamic study of chaotic oscillators of different models, such as Rössler, Lorenz, and Chua, has generated important advances in the understanding of chemical reactions, meteorological behavior, design of electronic devices, and other applications. Topics at the event included applications for communications systems by masking techniques, financial behavior, networks analysis, nonlinear lasers, numerical modeling, electronic design, and other interesting topics in the area of complex systems. Additionally, there are results on numerical simulation and electronic designs to generate complex dynamic behaviors.