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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Design of a segmentation and classification system for seed detection based on pixel intensity thresholds and convolutional neural networks -- Classification of Focused Perturbations Using Time-Variant Functional Connectivity with rs-fmri -- Escherichia coli: Analysis of Features for Protein Localization Classification employing Fusion Data -- Artificial Bee Colony-Based Dynamic Sliding Mode Controller for Integrating Processes with Inverse Response and Deadtime -- Optimizing a Dynamic Sliding Mode Controller with Bio-Inspired Methods: A Comparison -- A robust controller based on LAMDA and Smith Predictor applied to a system with dominant time delay -- Recursive neural networks tuned with a genetic algorithm for the prediction of the Bancolombia stock.
Sommario/riassunto	This book constitutes the refereed proceedings of the 5th IEEE Colombian Conference on Applications of Computational Intelligence, ColCACI 2022, held in Cali, Colombia during July 27–29, 2022. The 7 extended papers included in this book were carefully reviewed and selected from 38 submissions. They were organized in topical sections as follows: Design of a segmentation and classification system for seed detection based on pixel intensity thresholds and convolutional neural networks.

