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Nota di contenuto	Comparative Analysis of Sic and Gan Devices -- A Review on Finding Optimum Paths with Genetic and Annealing Algorithms -- Mathematical Analysis of Solar Photovoltaic Array Configurations with Partial Shaded Modules -- Discrete Wavelet Transform for CNN-BiLSTM-based Violence Detection -- Agrochain: Ascending Blockchain Technology towards Smart Agriculture -- Random Subspace Based Hybridized SVM Classification for High Dimensional Data -- AlphaAI: Custom Machine Learning Visualization Tool -- Dynamic Frequency Control of a Multi-Area Renewable Power System Incorporating with Energy Storage Technologies -- A Short Survey on Real-Time Object Detection and its Challenges -- Small Object Detection from Video and

Sommario/riassunto

This book comprises select proceedings of the international conference ETAEERE 2020. This volume covers latest research in advanced approaches in automation, control based devices, and adaptive learning mechanisms. The contents discuss the complex operations and behaviors of different systems or machines in different environments. Some of the areas covered include control of linear and nonlinear systems, intelligent systems, stochastic control, knowledge-based systems applications, fault diagnosis and tolerant control, and real-time control applications. The contents of this volume can be useful for researchers as well as professionals working in control and automation.