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Nota di contenuto	Double Walsh-Hadamard Transform for Improved Efficiency in OFDM-IM -- Connectivity Probability Analysis for Freeway with Entrance/Exit Scenarios in Vehicular Ad Hoc Networks -- Hybrid Control of Channel Selection and Transmission Power for Low Power Wireless Sensor Network -- A Novel Multi-Satellite Tracking Algorithm for the LEO Satellite Communications -- A Link Switching and Traffic Scheduling Method for Satellite-ground Uninterrupted Communication -- Direction Finding based on Spatial Sparsity of Cumulative Slicing for Circular Array in Correlated Noise and Multipath -- Spatial Dynamic Preamble Soft Allocation for mMTC in Massive MIMO Systems -- Seamless Handover in Hybrid VLC and WiFi network: A Testbed Scenario -- Design and Implementation of Industrial Internet Emulation Platform Based on Virtualization Technology -- RISNet: A DL-based High Accuracy CSI Feedback Approach for RIS-Aided FDD Systems -- Design Step for Op Amp based CMOS Feedback Amplifiers -- Dual-edge Triggered Reset Synchronizer for I2C Protocol.

Sommario/riassunto

The book presents the papers presented at the 12th International Conference on Communications, Circuits, and Systems (ICCCAS 2023) held 5-7 May, in Singapore. It covers advanced research topics in fields that encompass the design, analysis, and optimization of circuits and systems that enable communication between devices and networks, including but not limited to RF and microwave circuits, wireless communication systems, digital signal processing, power electronics, and control systems. It is expected that the collection and publication of the research papers with the advanced topics listed in this book will further promote high-standard academic research in the field and make a significant contribution to the development of economics and human society.
