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Nota di contenuto	Introduction -- Deep Analog-to-Digital Compression with Applications to Automotive Radar and Massive MIMO -- Reconfigurable Intelligent Surfaces -- Harvested Power Region of Two-user MISO WPT Systems With Non-linear EH Nodes -- PERIDOT Codes -- Shannon Capacity of Tensor Channels under a Family of Power Constraints -- On Downlink Interference Decoding In Multi-Cell Massive MIMO Systems. Communications and Signal Processing Techniques -- Compute-and-Forward For Uplink Massive MIMO-NOMA -- RCAQ: Regularized Classification-Aware Quantization -- SVD-Based NFDM with Index Modulation -- Data-Driven Measurement Matrix Design for Sparse Channel Reconstruction in Massive MIMO Systems -- A Low-Complexity Splitting Receiver for Ultrasonic Index Modulation-Based Intra-Body Communications -- Massive MIMO: From Cellular to Cell-Free Networks -- A Learning Approach to the Design of Massive MIMO

	and Intelligent Reflecting Surface Systems -- Modular Spectrum Utilization for Next-Generation Fixed Transmission Networks -- Multi-UAV Trajectory, Resource Allocation Design for UAV-based Wireless Networks With Dynamic Data Demand For Consecutive Service Periods -- Intelligent Cognition in an Integrated Satellite-Aerial-Terrestrial Network for Connected Vehicles -- Wireless Device Authentication using LSTM based Autoencoders -- Non-mode-Selective Photonic Lantern Based Receiver for Free-Space Optical Communications With Pointing Errors -- Rate Splitting Multiple Access for 6G: Principles, Recent Advances, and Future Research Trends -- Conclusion.
Sommario/riassunto	The book presents the proceedings of the 30th Biennial Symposium on Communications 2021 (BSC21), a prestigious international research conference in communications, information theory, and signal processing. Started in 1962 by Queen’s University, Canada, the Symposium is now presented by the Canadian Society of Information Theory. Its 30th edition was hosted virtually by The University of Saskatchewan and held in Saskatoon from June 28 to 30, 2021. Topics include Communication and Information Theory, Coding and Signal Processing for Communications, and Multiple Antenna Systems and Cooperative Communications. Presents the proceedings of the 30th Biennial Symposium on Communications 2021 (BSC21); Topics include Communication & Information Theory, Coding & Signal Processing, and Multiple Antenna Systems & Cooperative Communications; Sponsors include the Canadian Society for Information Theory, Calian-Advance Technologies, SaskTel, and the University of Saskatchewan.