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	Soggetti	Coding theory
		Information theory
		Data encryption (Computer science)
		Computer communication systems
		Input-output equipment (Computers)
		Computer simulation
		Probabilities
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		Cryptology
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	Nota di contenuto	Constructive problems for irreducible polynomials over finite fields -- Singular algebraic curves over finite fields -- A divisionless form of the Schur Berlekamp-Massey algorithm -- Error-control coding, modulation and equalization for all-digital advanced television: State of the art and future possibilities -- A finite field arithmetic unit VLSI chip -- A successful attack against the DES -- Low-complexity and high-performance multilevel coded modulation for the AWGN and Rayleigh fading channels -- Channel coding for a frequency-hopped wireless

transceiver -- A unified view of noncoherent detection and differential detection of phase modulated signals -- Error reduction of coded DPSK over a fading channel -- Performance of BCH codes with DES encryption in a digital mobile channel -- Reduced-complexity channel estimation and equalization for TDMA mobile radio systems -- Probability of packet success for asynchronous DS/CDMA with block and convolutional codes -- Sequential decoding on intersymbol interference channels under the Pe-criterion -- Separable concatenated codes with iterative map filtering -- Adapting the strongly-connected trellis concept for use with trellis-coded modulation -- Variable-rate punctured Trellis-Coded Modulation and applications -- Trellis-based decoding of binary linear block codes -- Permutation decoding using primitive elements as multipliers -- Overflow constraint in hybrid nodes with movable boundary scheme -- Statistical analysis of wavelet transform coded multi-channel signals for transmission over ATM packet networks -- Statistical analysis of the traffic generated by the superposition of N independent interrupted poisson processes -- Throughput increase of ALOHA-based systems with multiuser sequence detection -- Auto-regressive transfer function identification using chaos -- A new algorithm for signal classification using phase information -- Efficient algorithms for fixed-rate entropy-coded vector quantization.

| Sommario/riassunto | This volume contains a selection of refereed papers from the 1993 Canadian Workshop on Information Theory, held in Rockland, Ontario, May 30 - June 2. The workshop provided a forum for Canadian and international researchers to gather and discuss new results in the areas of information theory, algebraic coding, digital communications, and networks. A number of novel approaches to research problems are presented, and seminal works by several renowned experts are included in the volume. The papers have been loosely grouped into four parts: coding and cryptography, coding and modulation of fading channels, decoding techniques, and networks and information theory. |