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Soggetti	Signal processing Image processing Speech processing systems Optical data processing Coding theory Information theory Data encryption (Computer science) Algorithms Combinatorics Signal, Image and Speech Processing Image Processing and Computer Vision Coding and Information Theory Cryptology Algorithm Analysis and Problem Complexity
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Nota di contenuto	The algebraic structure of codes invariant under a permutation -- A method for combining algebraic geometric Goppa codes -- Some best rate $1/p$ quasi-cyclic codes over $GF(5)$ -- Information leakage of a randomly selected boolean function -- On the use of periodic timebase companding in the scrambling of stationary processes -- A novel approach to spread spectrum communication using Linear Periodic

Time-Varying filters -- On random-like codes -- An alternative approach to the design of interleavers for block "turbo" codes -- Improved VLSI design for decoding concatenated codes comprising an irreducible cyclic code and a Reed-Solomon Code -- Non-minimal trellises for linear block codes -- Trellis complexity of linear block codes via atomic codewords -- Error correction for channels with substitutions, insertions, and deletions -- Reduced complexity soft-output maximum Likelihood Sequence Estimation of 4-ary CPM signals transmitted over Rayleigh flat-fading channels -- A novel receiver structure for MPSK in the presence of rapidly changing phase -- Comparison of MFSK variants for a hybrid DS/FH-CDMA system in Rayleigh fading -- Finite-field wavelet transforms -- Choice of wavelets for image compression -- Information in Markov random fields and image redundancy -- Coding of image data via correlation filters for invariant pattern recognition: Some practical results -- Improving myoelectric signal classifier generalization by preprocessing with exploratory projections -- Chinese character recognition via orthogonal moments.

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#### Sommario/riassunto

This book constitutes the refereed postworkshop proceedings of the Fourth Canadian Workshop on Information Theory, held in Lac Delage, Quebec, in May 1995. The book contains 18 revised full papers selected from 30 workshop presentations; also included are three invited contributions. The book is divided into sections on algebraic coding, cryptography and secure communications, decoding methods and techniques, coding and modulation for fading channels, and signal processing and pattern recognition.

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