IEEE TRANSACTIONS ON

INFORMATION THEORY

A Journal Devoted to the Theoretical and Experimental Aspects of Information Transmission, Processing, and Utilization



AUGUST 2016 VOLUME 62 NUMBER 8 IETTAW (ISSN 0018-9448)

	SHANNON THEORY	
Y. Baryshnikov, J. Duda, and W. Szpankowski	Types of Markov Fields and Tilings	4361
S. L. Fong and V. Y. F. Tan	A Proof of the Strong Converse Theorem for Gaussian Multiple Access Channels	4376
H. Yagi, T. S. Han, and R. Nomura	First- and Second-Order Coding Theorems for Mixed Memoryless Channels With General Mixture	4395
V. Jog and V. Anantharam	A Geometric Analysis of the AWGN Channel With a (σ, ρ) -Power Constraint	4413
O. Ordentlich and U. Erez	A Simple Proof for the Existence of "Good" Pairs of Nested Lattices	4439
	CODING THEORY	
D. Cullina and N. Kiyavash	Generalized Sphere-Packing Bounds on the Size of Codes for Combinatorial Channels	4454
Z. Wang, I. Tamo, and J. Bruck	Explicit Minimum Storage Regenerating Codes	4466
A. S. Rawat, D. S. Papailiopoulos, A. G. Dimakis, and S. Vishwanath	Locality and Availability in Distributed Storage	4481
T. Zhang and G. Ge	New Results on Codes Correcting Single Error of Limited Magnitude for Flash Memory	4494
Z. Heng and Q. Yue	Several Classes of Cyclic Codes With Either Optimal Three Weights or a Few Weights	4501
	SECURE COMMUNICATION	
AM. Ernvall-Hytönen and B. A. Sethuraman	Counterexample to the Generalized Belfiore–Solé Secrecy Function Conjecture for l -Modular Lattices	4514
O. Gungor and C. E. Koksal	On the Basic Limits of RF-Fingerprint-Based Authentication	4523
S. I. Bross	Secure Cooperative Source-Coding With Side Information at the Eavesdropper	4544
	COMMUNICATION NETWORKS	
O. Yağan	Zero-One Laws for Connectivity in Inhomogeneous Random Key Graphs	4559
K. Efremenko, R. Gelles, and B. Haeupler	Maximal Noise in Interactive Communication Over Erasure Channels and Channels With Feedback	4575



GAUSSIAN NETWORKS

SW. Jeon and C. Suh	Degrees of Freedom of Uplink-Downlink Multiantenna Cellular Networks	4589
AA. Lu, X. Gao, and C. Xiao	Free Deterministic Equivalents for the Analysis of MIMO Multiple Access Channel	4604
C. Geng and S. A. Jafar	On the Optimality of Treating Interference as Noise: Compound Interference Networks	4630
X. Yi and G. Caire	Optimality of Treating Interference as Noise: A Combinatorial Perspective	4654
	COMMUNICATIONS	
S. Satpathi, R. Nagda, and R. Vaze	Optimal Offline and Competitive Online Strategies for Transmitter–Receiver Energy Harvesting	4674
	SIGNAL PROCESSING, DETECTION AND ESTIMATION	
L. Jacques	Error Decay of (Almost) Consistent Signal Estimations From Quantized Gaussian Random Projections	4696
V. Matta, P. Braca, S. Marano, and A. H. Sayed	Diffusion-Based Adaptive Distributed Detection: Steady-State Performance in the Slow Adaptation Regime	4710
J. Lin and S. Li	Restricted q -Isometry Properties Adapted to Frames for Nonconvex l_q -Analysis	4733
H. Zhang, Z. Lin, and C. Zhang	Completing Low-Rank Matrices With Corrupted Samples From Few Coefficients in General Basis	4748
	SEQUENCES	
C. Fan, H. Cai, and X. Tang	A Combinatorial Construction for Strictly Optimal Frequency-Hopping Sequences	4769
I. Mercer	Bounding the Peak Sidelobe Level of Binary Sequences of All Lengths	4775