

The 2001 IEEE International Symposium on Information Theory

Recent Results Sessions

Tuesday June 26, 2001 – 7:30 pm
Omni Shoreham Hotel, Washington DC

Organizers: F. Alajaji and T. Linder

The duration of each presentation is 10 minutes.

Session I: Space-Time Coding and Channel Coding

Chair: F. Alajaji – Queen's University, Canada

Nonexistence of Rate One Space-Time Block Codes from Generalized Complex Linear Processing Orthogonal Designs for More than Two Transmit Antennas

X.-B. Liang and X.-G. Xia – University of Delaware

Two Generalized Complex Orthogonal Space-Time Block Codes of Rate $7/11$ and $3/5$ for 5 and 6 Transmit Antennas

W. Su and X.-G. Xia – University of Delaware

Opportunistic Beamforming using Dumb Antennas

P. Viswanath – Flarion Technologies,

D. Tse – University of California, Berkeley

and R. Laroia – Flarion Technologies

Decision Feedback Detection for Space-Time Communications: A Performance Analysis

N. Prasad and M. Varanasi – University of Colorado, Boulder

Decoding Low-Density Parity-Check Codes with Probabilistic Scheduling

Y. Mao – University of Toronto, Canada

and A. Banihashemi – Carleton University, Canada

MDS Source-Channel Erasure Codes

S. Pradhan, R. Puri and K. Ramchandran – Univ. of California, Berkeley

Connections Between Data Reconciliation and Generalized Error-Correcting Codes

A. Trachtenberg, M. Karpovsky and L. Levitin – Boston University

Session II: Source Coding and Cryptography

Chair: T. Linder – Queen's University, Canada

Low Complexity MDL Universal Coding with the BWT

D. Baron and Y. Bresler – *University of Illinois*

Quantum Universal Source Coding

K. Matsumoto – *ERATO, JST, Japan*

Optimal Strategies of Quantum Coin Tossing Protocol

Y. Tokunaga – *NTT Laboratories, Japan*

and K. Matsumoto – *ERATO, JST, Japan*

Aperiodic Modulation of Frequency for Asynchronous

Communication and Magnetic Data Storage

S. Mukhtar and J. S. Bruck – *California Institute of Technology*

Design of Fractional Rate FSM Encoders Using Latin Squares

P. Mitran and J. Bajcsy – *McGill University, Canada*

On Shannon Source Coding Using Parallel Concatenated Codes

J. Bajcsy and P. Mitran – *McGill University, Canada*

Iterative Version of the TST Cipher

V. Canda and T. van Trung – *University of Essen, Germany*
