Final Conference:
General Theory of Information Transfer
April 26 -30, 2004

April 26, 2004 **Search and Combinatorics**

D. Mundici	Conservation laws in asymmetric error-correcting coding
P. Damaschke	Treshold group testing
A. de Bonis	New results on superimposed codes
C. Deppe	Q-ary Ulam-Renyi game with weighted constrained lies
G. Katona	Families with forbidden inclusion pattern
A.V. Kostochka	On H-linked graphs
E. Györi	Graphs and designs in extremal hypergraphs
H. Aydinian	On q-ary codes correcting all unidirectional errors of a limited magnitude

April 27, 2004 **Animal Communication**

M. Naguib	Communication networks in animal communication
R. James	Network theory as a tool in animal biology
J. Krause	The structure of social networks in fish
C. Hemelrijk	Pecularities of fish schools: an agent-based model
L. Conradt	Communal decision making in animals
R. Apfelbach	Molecules, chemical signals, information transfer and behaviour

Data Structure, Data Compression and Statistics

K. Kobayashi	Some considerations on three dimensional Young tableaux
V. Blinovsky	Number of shapes of Young diagrams with restrictions on the length and height of steps
H. Morita	On-line ECG lossless compression using antidictionaries
H. Yamamoto	Variations of sequential MPM codes with $O(1/\log n)$ maximum redundancy
H. Mashurian	t-shift self-synchronized codes
V. Levenshtein	Error-correction capability of binary linear codes
T.J. Tjalkens	Storage complexity of source codes
A. Harutyunyan	Error exponent in AVS coding

April 28, 2004 **Quantum Information**

J. Gruska	Quantum information processing primitives
P. Jorrand	Towards minimal resources for universal measurement - based quantum Turing machines
A. Sanpera	Witnessing entanglement
O. Hirota	Secure quantum communication protocol based on quantum communication theory
A.S. Holevo	An exactly solvable model related to the additivity problem for quantum models
A. Winter	Identification via quantum channels
P. Blanchard	Quantum random walks and piecewise deterministic evolutions
A. Uhlmann	On rank two channels

Pattern Discovery

A. Apostolico	Issues in the discovery and use of motif patterns
L. Parida	On the problem of discovering extensible patterns
R. Giancarlo	Boosting testual compression in optimal linear time
M. Lewenstein	Peeling codes with applications to finding witnesses
J. Stoye	New models and algorithms for genome comparison
S. Heber	Large notes on common intervals in trees
M. Raffinot	Identifying common connected components of graphs
A. Bergeron	The reversal distance without hurdles and fortresses

April 29, 2004   **Identification, Common Randomness**
and General Theory of Information Transfer

Y. Steinberg	On the capacity region of the general vector gaussian broadcast channel
A. Orlitsky	From 2 to infinity: information theory of large alphabets
V. Anantharam	Common randomness and stochastic resonance
F. Topsoe	Games of information with application in physics, finance and other areas
E. Haroutunian	On logarithmically optimal testing of hypothesis and identification
P. Harremoes	The weak information projection
A.G. D'yackkov	Partition codes
E.C. von der Meulen	New signature codes for the T-user multiple access binary adder channel with a changing user population

April 30, 2004   **Cryptography and Nunmber Theory**

A. Sarkozy	On pseudorandom binary sequences and their application in cryptography
C. Mauduit	Measures of pseudorandomness for finite sequences: minimal values
J. Rivat	Construction of pseudorandom sequences
K. Gyarmati	Inequalities between pseudorandom measures
P. Hubert	On p-pseudorandom binary sequences
C.L. Steward	On a family of pseudorandom sequences
R. Tichy	Metric discrepancy theory
J. Cassaigne	Finite words of maximal subword complexity