

Program (06.06.2006)

Thursday June 8th 2006

09:00 – 09:50 Registration / coffee

09:50 – 10:00 Opening

10:00 - 10:45 **Invited presentation:** R. Koetter: *Network Coding for Multicast and Non-Multicast Connections*
(University of Illinois at Urbana-Champaign, USA)

10:45 – 11:00 Coffee

11:00 – 12:30 Source and Channel Coding

A. Martinez, F. Willems: *A Coding Theorem for Bit-Interleaved Coded Modulation*
(Eindhoven University of Technology)

A.G.C. Koppelaar, O. Eerenberg: *Power-saving by Adaptive RS Decoding in a DVB-H Receiver*
(PS-ASL and PRLE)

H.D.L. Hollmann, L.M.G.M. Tolhuizen: *Generating Parity Check Equations for Bounded-Distance Iterative Erasure Decoding of Even Weight Codes*
(Philips Research)

R. Schiphorst, C.H. Slump: *Non-recognizable Error Probability in a Terrestrial DAB Single Frequency Network*
(University of Twente)

12:30 – 14:00 Lunch

14:00 – 15:30 Video Compression

B. Zafarifar, P.N.H. de With: *Adaptive Modeling of Sky for Video Processing and Coding Applications*
(Eindhoven University of Technology, LogicaCMG Nederland B.V. and Philips Consumer Electronics)

J.R. Taal, R.L. Legendijk: *Asymmetric Multiple Description Coding using Layered Coding and Lateral Error Correction*
(Delft University of Technology)

T. Clerckx, A. Munteanu, J. Cornelis, P. Schelkens: *Performing Motion Estimation in Distributed Video Coding*
(Vrije Universiteit Brussel)

G. Petrovic, P.H.N. de With: *Framework for Layered 3D Video Streaming*
(Eindhoven University of Technology and LogicaCMG Nederland B.V.)

15:30 – 17:00 Poster session and refreshment drinks

K.A.S. Abdel-Ghaffar, J.H. Weber: *Enumeration of Stopping Sets of Full-Rank Parity-Check Matrices of Hamming Codes*
(University of California and Delft University of Technology)

N.F. Kiyani, J.H. Weber: *Analysis of Random Regular LDPC Codes on Rayleigh Fading Channels*
(Delft University of Technology)

Y.A. Reznik, A.V. Anisimov: *On Direct Construction of Variable-Length-to-Block Codes*
(Qualcomm Inc., and Kiev National T. Schevchenko University)

P. Li, D. Farin, R. Klein Gunnewiek, P.H.N. de With: *On Creating Depth Maps from Monoscopic Video using Structure from Motion*
(Eindhoven University of Technology, Philips Research and LogicaCMG Nederland B.V.)

Y. Morvan, D. Farin, P.H.N. de With: *Design Considerations for View Interpolation in a 3D Video Coding Framework*
(Eindhoven University of Technology and LogicaCMG Nederland B.V.)

R. Wijnhoven, P.H.N. de With: *3D Wire-frame Object-Modeling Experiments for Video Surveillance*
(Bosch Security Systems B.V., Eindhoven University of Technology and LogicaCMG Nederland B.V.)

M. Pastrnak, P.H.N. de With: *Multidimensional Model of Estimated Resource Usage for Multimedia NoC QoS*
(Eindhoven University of Technology and LogicaCMG Nederland B.V.)

D. Farin, P.H.N. de With: *Shortest Circular Paths on Planar Graphs*
(Eindhoven University of Technology and LogicaCMG Nederland B.V.)

M. van Staalduinen, E. Backer, J.C.A. van der Lubbe: *Adaptive Scale Selection for Robust Mode Seeking*
(Delft University of Technology)

E.C. van der Meulen, P. Vanroose: *New Results for Relay Channels*
(Katholieke Universiteit Leuven and ABIS Training & Consulting)

L. Debowski, *Excess Entropy — A Link between Probabilistic and Algorithmic Approaches to Mutual Information*
(Polish Academy of Sciences)

V. Tamgnoue, V. Moeyaert, S. Bette, P. Mégret: *Impulse Noise Estimation for Adaptive Modulation and Coding*
(Faculté Polytechnique de Mons)

W. Van Thillo, J. Nsenga, F. Horlin, A. Bourdoux, R. Lauwereins: *Continuous Phase Modulation for 60 GHz Wireless High Data Rate Communication*
(IMEC Wireless Research and Katholieke Universiteit Leuven)

F. Hoeksema, C.H. Slump: *The analysis of Timing Metrics for Synchronisation Purposes in OFDM Systems*
(University of Twente)

C.K. Ho, J.-P.M.G. Linnartz: *Calculation of the Spatial Reservation Area for the RTS/CTS Multiple Access Scheme*
(Eindhoven University of Technology and Philips Research)

P.J.O. Doets, R.L. Lagendijk: *Extension of a Stochastic Model for the Philips Audio Fingerprint*
(Delft University of Technology)

T. Ignatenko, F. Willems: *On the Security of the XOR-Method in Biometric Authentication Systems*
(Eindhoven University of Technology and Philips Research)

O. Koval, S. Voloshynovskiy, T. Pun: *Laplacian Channel State Estimation for State Dependent Channels*
(University of Geneva)

C.J.A. Jansen: *Stream Cipher Constructions over Binary Extension Fields*
(DeltaCrypto B.V.)

Y. Borissov, S. Nikova, N. Manev: *On Primitive Polynomials over $GF(2)$ the Duals of which are also Primitive*
(Bulgarian Academy of Sciences and Katholieke Universiteit Leuven)

17:00 – 18:00 General Assembly of the Werkgemeenschap voor Informatie- en Communicatietheorie

19:30 Dinner

Friday June 9th 2006

09:00 – 10:30 **Communications**

S.A. Husen, S. Baggen, A. Filippi: *Blind Estimation of Maximum Delay Spread in OFDM Systems*
(Philips Research)

M.M. Pietrzyk, K. Popovski, T.A. Wysocki, B.J. Wysocki, J.H. Weber: *On the Performance of Scarcely Populated Coded UWB-IR Systems on Multipath Fading Channels*
(Delft University of Technology and University of Wollongong)

J. Nsenga, W. Van Thillo, F. Horlin, A. Bourdoux, R. Lauwereins: *Offset-QPSK with FDE for 60 GHz Wireless Communication Systems*
(IMEC Wireless Research and Katholieke Universiteit Leuven)

J. Levendovszky, Cs. Orosz, A. Olah, and E.C. van der Meulen: *Optimal Energy Balancing Protocols for Wireless Sensor Networks*
(Budapest University of Technology, Pazmany Peter Catholic University and Katholieke Universiteit Leuven)

10:30 – 11:00 Coffee

11:00 – 12:30 **Cryptography, Security, and Authentication**

S. Voloshynovskiy, O. Koval, E. Topak, T. Pun: *Message Communications and Channel State Estimation for State Dependent Channels*
(University of Geneva)

V.B. Balakirsky, A.R. Ghazaruyan, A.J.H. Vinck: *Processing Fingerprints via Binary Codes: The BMW Algorithm*
(University of Duisburg-Essen)

B. Gedrojc, J.C.A. van der Lubbe: *Private Matching of Noisy Data*
(Delft University of Technology)

M.S. Kiraz and B. Schoenmakers: *A Protocol Issue for the Malicious Case of Yao's Garbled Circuit Construction*
(Eindhoven University of Technology)

12:30 – 14:00 Lunch

14:00 – 15:00 **Pattern Recognition for Human Interaction**

J.F. Lichtenauer, E.A. Hendriks, M.J.T. Reinders: *3D versus 2D Pose Information for Recognition of NGT Signs*
(Delft University of Technology)

W. Lao, J. Han, P.H.N. de With: *3D Modeling for Capturing Human Motion from Monocular Video*
(Eindhoven University of Technology and LogicaCMG Nederland B.V.)

J. Wang, A.P. de Vries, M.J.T. Reinders: *On Combining User-based and Item-based Collaborative Filtering*
(Delft University of Technology)

15:00 – 15:45 **Invited presentation:** A.A.C.M. Kalker: *Secure Signal Processing*
(HP Research, Palo Alto, USA)

15:45 – 16:00 Best student paper award ceremony

16:00 Closing