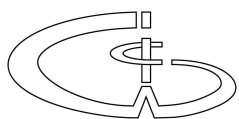


26th Symposium on Information Theory in the Benelux



Thursday May 19th

08:30 – 09:30 : Registration

09:30 – 10:10 : Invited talk, Dieter Gollmann (TU Hamburg-Harburg): "Protocol analysis beyond the Dolev-Yao model"

10:10 – 11:10 : Cryptography and Security I

1. "Analysis of an anonymous fair exchange e-commerce protocol", M. Bechlaghem, V. Rijmen - Cryptomathic
2. "Security Scheme for Electronic Patient's Records incorporating full Privacy", K. Kapis, J. C. A. van der Lubbe, K. Cartrysse, B. Gedrojc - TU Delft
3. "The security of PSEC-KEM versus ECIES-KEM", D. Galindo, S. Martin, J. Villar - Radboud U Nijmegen and UPC Barcelona

11:10 – 11:30 : Coffee break

11:30 – 12:30 : Biometrics (parallel session)

1. "Robustness, reliability and security of biometric key distillation in the information theoretical setting", M. Van Dijk, P. Tuyls - MIT and Philips Research
2. "One-to-template and one-to-one verification in the single- and multi-user case", R. Veldhuis, A. Bazen - U Twente
3. "Real-time face detection using a cascade of neural networks ensembles", F. Zuo, P. H. N. de With - TU/e

11:30 – 12:30 : Wireless Communications (parallel session)

1. "Achieving higher reactive handover performance in mobile networks", J. Levendovszky, P. Boros, E. C. van der Meulen - TU Budapest and KUL
2. "Enhancement of code performance for Doppler-induced ICI in DVB-T", S. Andari Husen, S. Baggen, A. Filippi, M. Stassen - Philips Research

3. "Performance of Multiple Input Multiple Output (MIMO) Wireless Systems", D. Zorbouti, G. Tsoulos, D. I. Kaklamani - National Technical University of Athens (Greece)

12:30 – 13:40 : Lunch

13:40 – 14:20 : Invited talk, Paul Vitanyi (CWI and University of Amsterdam) : "Distortion-rate theory for individual data"

14:20 – 15:40 : Source Coding

1. "On the bit distribution in asymmetric multiple-description coding", J. Ostergaard, R. Heusdens, J. Jensen - TU Delft
2. "Construction of Prefix Codes Using Linear Forms of Numerical Sequences", A. V. Anisimov, Y. A. Reznik - Kiev National T.G. Schevchenko University (Ukraine) and RealNetworks, Inc.
3. "Low-Complexity Coding for the CEO Problem with Many Encoders", G. Maierbacher, J. Barros - Universidade do Porto (Portugal)
4. "Modular data compression to optimally locate regular segments in sequences. Applications to DNA sequence analysis", O. Delgrange, E. Rivals - UMH

15:40 – 16:00 : Coffee break

16:00 – 17:20 : Video and Image Coding

1. "Turbo-code based Wyner-Ziv video compression", R. P. Westerlaken, R. Klein Gunnewiek, R. L. Lagendijk - Philips Research / TU Delft
2. "Coding of depth-maps using piecewise linear functions", Y. Morvan, D. Farin, P. H. N. de With - TU/e and LogicaCGM
3. "Scalable multiple description video for fair streaming to many clients", J. R. Taal, R. L. Lagendijk - TU Delft
4. "Adaptive decoding of MPEG-4 sprites for memory-constrained embedded systems", M. Pastrnak, D. Farin, P. H. N. de With - TU/e and LogicaCGM

17:30 – 18:10 : WIC General Assembly

20:00 : Banquet

Friday May 20th

09:00 – 09:40 : Invited talk, Andreas Winter (University of Bristol) : "Quantum resources in information theory"

09:40 – 10:40 : Classical and quantum error-correcting codes

1. "Coding for reliability and security over wire tap channel systems", A. Thangaraj, S. Dihidar, R. Calderbank, S. McLaughlin - IIT Madras, Georgia Tech and Princeton
2. "Interleaved serial concatenation of quantum convolutional codes: gate implementation and iterative error estimation algorithm", H. Ollivier, J.-P. Tillich - Perimeter Institute (Canada) and INRIA (France)
3. "Stopping and Dead-End Set Enumerators for Binary Hamming Codes", J. H. Weber, K. A. S. Abdel-Ghaffar - TU Delft and UC Davis

10:40 – 11:00 : Coffee break

11:00 – 12:20 : Quantum information and quantum cryptography (parallel session)

1. "One-dimensional and multi-dimensional reconciliation using turbo codes for quantum key distribution", K.-C. Nguyen, G. Van Assche, N. Cerf - ULB
2. "Quantum Information Theoretical Analysis of Various Constructions for Quantum Secret Sharing", K. Rietjens, B. Schoenmakers, P. Tuyls - TU/e and Philips Research
3. "Generic security proof of quantum key exchange using squeezed states", K. Poels, P. Tuyls, B. Schoenmakers - TU/e and Philips Research
4. "Simulating quantum correlations with classical resources", J. Degorre, J. Roland - Paris Sud (France)

11:00 – 12:20 : Communication Channels (parallel session)

1. "Direct message coding for multiple-access channels", P. Vanroose - ABIS training and consulting (Leuven)
2. "Parallel channels with cribbing encoders", E. C. van der Meulen, A. R. Ghazaryan - KUL and Armenian National Academy of Sciences
3. "Numerical computation of the capacity of continuous memoryless channels", J. Dauwels - ETH Zürich (Switzerland)
4. "Aerial Entropy and Capacity of an MEA EM Source", A. Kalis, M. J. Carras - Athens Information Technology (Greece)

12:20 – 13:30 : Lunch

13:30 – 14:30 : Communication Theory

1. "Signal constellations for multilevel coded modulation with sparse-graph codes", H. S. Cronie - U Twente
2. "Impulse noise modelling in the upstream path of HFC/CATV networks", V. Tamgoue, S. Bette, V. Moeyaert, M. Blondel, P. Mégret - Faculté Polytechnique de Mons
3. "Spatial Bandwidth: a Heuristic Calculation with Applications", A. Martinez - TU/e

14:30 – 14:50 : Coffee break

14:50 – 16:10 : Cryptography and Security II (parallel session)

1. "Classification of cubic boolean functions in 7 variables", A. Braeken, S. Nikova, Y. Borissov - KUL and Bulgarian Academy of Sciences
2. "Efficient implementation of recent stream ciphers on reconfigurable hardware devices", P. Léglise, F.-X. Standaert, G. Rouvroy, J.-J. Quisquater - UCL
3. "Condensed White-Box Implementations", B. Wyseur, B. Preneel - KUL
4. "Partitions of polynomials: stream ciphers based on jumping shift registers", C. J. A. Jansen - Banksys

14:50 – 15:50 : Image Processing (parallel session)

1. "Maximum likelihood amplitude scale estimation in secure quantization-based watermarking", I. D. Shterev, R. L. Lagendijk - TU Delft
2. "Reconstructing Virtual Rooms from Panoramic Images", D. Farin, P. H. N. de With - TU/e
3. "Automatic tracking method for sports video analysis", J. Han, D. Farin, P. H. N. de With, W. Lao - TU/e and LogicaCMG