



Thursday May 19, 2016



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09:00-09:30	Welcome and registration
09:30-09:35	Opening
09:35-10:20	<b>Invited keynote talk: <i>Random matrix theory for signal processing</i></b> <b>Xavier Mestre</b> (CTTC, Telecommunications Technological Center of Catalonia, Barcelona)
10:20-10:45	Coffee break
10:45-12:35	<b>Oral session T1</b> <ul style="list-style-type: none"><li>• <i>Delay Performance Enhancement for DSL Networks through Cross-Layer Optimization</i>, <b>Jeremy Van den Eynde</b>, Jeroen Verdyck, Chris Blondia, Marc Moonen</li><li>• <i>Analysis of Modulation Techniques for SWIPT with Software Defined Radios</i>, <b>Steven Claessens</b>, Ning Pan, Mohammad Rajabi, Sofie Pollin, Dominique Schreurs</li><li>• <i>Joint Multi-objective Transmit Precoding and Receiver Time Switching Design for MISO SWIPT Systems</i>, <b>Nafiseh Janatian</b>, Ivan Stupia, Luc Vandendorpe</li></ul> <i>Short break (11:45-11:55)</i> <ul style="list-style-type: none"><li>• <i>Target detection for DVB-T based passive radars using pilot subcarrier signal</i>, <b>Osama Mahfoudia</b>, François Horlin, Xavier Neyt</li><li>• <i>Noise Stabilization with Simultaneous Orthogonal Matching Pursuit</i>, <b>Jean-François Determe</b>, Jérôme Louveaux, Laurent Jacques, François Horlin</li></ul>
12:40-13:30	Lunch
13:30-15:30	<b>Social event</b> at the <i>Musée Hergé</i>
15:30-17:10	<b>Oral session T2</b> <ul style="list-style-type: none"><li>• <i>Camera Motion for Deblurring</i>, <b>Bart Kofoed</b>, Peter H.N. de With, Eric Janssen</li><li>• <i>Person-Independent Discomfort Detection System for Infants</i>, <b>C. Li</b>, S. Zinger, W. E. Tjon a Ten, P. H. N. de With</li><li>• <i>Wavelet-based coherence between large-scale resting state networks: neurodynamics marker for autism?</i>, <b>Antoine Bernas</b>, Svitlana Zinger, Albert P. Aldenkamp</li><li>• <i>TouchSpeaker, a Multi-Sensor Context-Aware Application for Mobile Devices</i>, <b>Jona Beysens</b>, Alessandro Chiumento, Sofie Pollin, Min Li</li><li>• <i>A Non-Convex Approach to Blind Calibration from Linear Sub-Gaussian Random Measurements</i>, <b>Valerio Cambareri</b>, Laurent Jacques</li></ul>
17:10-17:15	Coffee break (extending over the poster session)
17:15-18:45	<b>Poster session P</b> <ul style="list-style-type: none"><li>• <i>Effect of power amplifier nonlinearity in Massive MIMO: in-band and out-of-band distortion</i>, <b>Steve Blandino</b>, Claude Dessel, Sofie Pollin, Liesbet Van der Perre</li><li>• <i>Bandwidth Impacts of a Run-Time Multi-sine Excitation Based SWIPT</i>, <b>Ning Pan</b>, Mohammad Rajabi, Dominique Schreurs, Sofie Pollin</li><li>• <i>Generalized Optimal Pilot Allocation for Channel Estimation in Multicarrier Systems</i>, <b>François Rottenberg</b>, François Horlin, Eleftherios Kofidis, Jérôme Louveaux</li><li>• <i>Co-existence of Cognitive Satellite Uplink and Fixed-Service Terrestrial</i>, <b>Jeevan Shrestha</b>, Luc Vandendorpe</li><li>• <i>Low-Complexity Laser Phase Noise Compensation for Filter Bank Multicarrier Offset-QAM Optical Fiber Systems</i>, <b>Trung-Hien Nguyen</b>, Simon-Pierre Gorza, Jérôme Louveaux, François Horlin</li></ul>

- 17:15-18:45  
(continued)
- *8-state unclonable encryption*, **Boris Skoric**
  - *Optimizing the discretization in Zero Leakage Helper Data Systems*, **Taras Stanko**, Fritria Nur Andini, Boris Skoric
  - *Zero-Leakage Multiple Key-Binding Scenarios for SRAM-PUF Systems Based on the XOR-Method*, **Lieneke Kusters**, Tanya Ignatenko, Frans M.J. Willems
  - *Localization in Long Range Communication Networks Based on Machine Learning*, **Hazem Sallouha**, Sofie Pollin
  - *Privacy-Preserving Alpha Algorithm for Software Analysis*, **Gamze Tillem**, Zekeriya Erkin, Reginald Lagendijk
  - *A framework for processing cardiac signals acquired by multiple unobtrusive wearable sensors*, **Attila Para**, Silviu Dovancescu, Dan Stefanoiu
  - *Proof of the Median Paths*, **Thijs Veugen**
  - *Enhancing privacy of users in eID schemes*, **Kris Shrishak**, Zekeriya Erkin, Remco Schaar

18:45-19:30 General assembly

19:30- Departure to dinner at *Brasserie RN*

## Friday May 20, 2016

09:00-09:30 Welcome and registration

### 09:30-10:30 Oral session F1

- *A Privacy-Preserving GWAS Computation with Homomorphic Encryption*, **Chibuike Ugwuoke**, Zekeriya Erkin, Reginald Lagendijk
- *Security Analysis of the Authentication of Classical Messages by an Arbitrated Quantum Scheme*, **Helena Bruyninckx**, Dirk Van Heule
- *Fighting asymmetry with asymmetry in Reverse Fuzzy Extractors*, **Taras Stanko**, Boris Skoric, André Schaller, Stefan Katzenbeisser

10:30-10:55 Coffee break

### 10:55-11:55 Oral session F2

- *Linear Cryptanalysis of Reduced-Round Speck*, **Daniël Bodden**, Tomer Ashur
- *An Efficient Privacy-Preserving Comparison Protocol in Smart Metering Systems*, **Majid Nateghizad**, Zekeriya Erkin, Reginald Lagendijk
- *Security Analysis of the Drone Communication Protocol: Fuzzing the MAVLink protocol*, **Karel Domin**, Eduard Marin, Iraklis Symeonidis

12:00-13:00 Lunch

13:00-13:45 **Invited keynote talk: Exploratory data mining: an information-theoretic perspective**  
**Tijl De Bie** (Universiteit Gent, Electronics and Information System & University of Bristol)

13:45-14:10 Coffee break

### 14:10-15:30 Oral session F3

- *Parallel optimization on the Entropic Cone*, **Benoît Legat**, Raphaël M. Jungers
- *Compute-and-forward on the Multiple-access Channel with Distributed CSIT*, **Shokoufeh Mardani**, Jasper Goseling
- *Autoregressive Moving Average Graph Filter Design*, **Jiani Liu**, Elvin Isufi, Geert Leus
- *Greedy Gossip Algorithm with Synchronous Communication for Wireless Sensor Networks*, **Jie Zhang**, Richard C. Hendriks, Richard Heusdens

15:30- **Award ceremony** and farewell drink