



## Session : Channel Modeling, Estimation and Equalization

Time: 15:10 – 16:30



### **A BLIND SPATIO TEMPORAL EQUALIZATION OPERATING ON A POLARIZATION (Abstract)**

Yvon Erhel

(Centre de Recherche des Ecoles de Coetquidan GUER, France)

Clency Perrine

(I.E.T.R. Université de Rennes 1, France)

Dominique Lemur

(I.E.T.R. Université de Rennes 1, France)

Alain Bourdillon

(I.E.T.R. Université de Rennes 1, France)

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### **A NON-PARAMETRIC ML ESTIMATOR WITH UNKNOWN CHANNEL ORDER ([Abstract](#))**

Yu Gong (Queen's University of Belfast, United Kingdom)  
Vimal Bhatia (University of Edinburgh, United Kingdom)  
Bernard Mulgrew (University of Edinburgh, United Kingdom)  
Colin Cowan (Queen's University of Belfast, United Kingdom)



### **NON-PARAMETRIC ML CHANNEL ESTIMATOR AND DETECTOR FOR OFDM ([Abstract](#))**

Vimal Bhatia (University of Edinburgh, United Kingdom)  
Bernard Mulgrew (University of Edinburgh, United Kingdom)  
David Falconer (Carleton University, Canada)

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### **A NEW TURBO EQUALIZER WITH LINEAR COMPLEXITY ([Abstract](#))**

Dimitris Ampeliotis (University of Patras, Greece)

Kostas Berberidis (University of Patras, Greece)



### **BLIND CHANNEL EQUALIZATION WITH ALGEBRAIC OPTIMAL STEP SIZE ([Abstract](#))**

Vicente Zalzoso (The University of Liverpool, United Kingdom)

Pierre Comon (CNRS/UNSA, France)



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### **TWO CROSS COUPLED KALMAN FILTERS FOR JOINT ESTIMATION OF MC-DS-CDMA FADING CHANNELS AND THEIR CORRESPONDING AUTOREGRESSIVE PARAMETERS ([Abstract](#))**

Ali Jamoos (Equipe Signal & Image, LAPS UMR 5131, ENSEIRB, France)  
David Labarre (Equipe Signal & Image, LAPS UMR 5131, ENSEIRB, France)  
Eric Grivel (Equipe Signal & Image, LAPS UMR 5131, ENSEIRB, France)  
Mohamed Najim (Equipe Signal & Image, LAPS UMR 5131, ENSEIRB, France)



### **A GENERALIZED DUAL MODE BLIND EQUALIZATION SCHEME WITH CARRIER RECOVERY ([Abstract](#))**

Bakhtiar Ali (KFUPM, Saudi Arabia)  
Azzedine Zerguine (KFUPM, Saudi Arabia)

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### **MMSE ESTIMATION OF BASIS EXPANSION MODELS FOR RAPIDLY TIME-VARYING CHANNELS**

#### **(Abstract)**

Imad Barhumy (K.U.Leuven–ESAT/SISTA, Belgium)

Geert Leus (T.U.Delft, Netherlands)

Marc Moonen (K.U.Leuven–ESAT/SISTA, Belgium)



### **GEOMETRICALLY-BASED SPACE-TIME DETERMINISTIC MULTIPATH FADING CHANNEL MODEL WITH APPLICATION TO SPATIAL CORRELATION VERIFICATION OF MULTI-ANTENNA SYSTEMS**

#### **(Abstract)**

Arastoo Rostami–Ravari (Universiti Putra Malaysia, Malaysia)

Borhanuddin Mohd. Ali (Universiti Putra Malaysia, Malaysia)

S. S. Jamuar (Universiti Putra Malaysia, Malaysia)

M. U. Siddiqi (MMU, Malaysia)

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### **SUBBAND ADAPTIVE EQUALISER TRACKING FOR FRACTIONALLY-SAMPLED FADING BROADBAND MIMO CHANNELS ([Abstract](#))**

Stephan Weiss (University of Southampton, United Kingdom)

Viktor Bale (University of Southampton, United Kingdom)



### **ADAPTIVE ITERATIVE LAYERED SPACE-FREQUENCY EQUALIZATION FOR SINGLE-CARRIER MIMO SYSTEMS ([Abstract](#))**

Xu Zhu (University of Liverpool, United Kingdom)



### **ESTIMATION OF THE SNR FOR WIRELESS SYSTEMS IN A LOCAL FADING ENVIRONMENT WITH MULTI-ELEMENT ANTENNAS ([Abstract](#))**

Jean-Pierre Dubois (University of Balamand, Lebanon)

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**IMPROVED OFDM RECEIVER WITH ITERATIVE CHANNEL ESTIMATION AND TURBO DECODING**

**(Abstract)**

Yehezkel Bar-Ness (NJIT, United States)

Marta Perez Portugal (ETSETB (UPC), Spain)

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