

M4. 2nd IEEE Workshop on Optical Wireless Communications (OWC)

5 December 2011, Huston, Texas, USA

Final Program

08:00	Welcome (Harald Haas) — (8:00 - 8:10)
	Physical Layer: Modulation and Coding (Chair: Fary Ghassemlooy) — 08:10 - 9:30
08:10	IEEE802.15.7 Physical Layer Summary - Richard Roberts; Sridhar Rajagopal; Sang Kyu Lim
08:30	Receiver Design for Asymmetrically Clipped Optical OFDM - Kasra Asadzadeh; Awad Dabbo; Steve Hranilovic
08:50	A Novel Technique to Simultaneously Transmit ACO-OFDM and DCO-OFDM in IM/DD Systems - Sarangi D. Dissanayake; Kusha Panta; Jean Armstrong
09:10	A Comparison of OFDM-based Modulation Schemes for OWC with Clipping Distortion - Svilen Dimitrov; Sinan Sinanovic; Harald Haas
09:30	Coffee/Tea Break (9:30 - 10:00)
	Optical Wireless Systems (Chair: Jean Armstrong) — 10:00 - 12:00
10:00	A Hybrid Radio Frequency and Broadcast Visible Light Communication System - Michael Rahaim; Anna Maria Vegni; Thomas Little
10:20	"Lights-off" Visible Light Communications - Tarik Borogovac; Michael Rahaim; Malika Tuganbayeva; Thomas Little
10:40	A Visible Light Localization Aided Optical Wireless System - Giulio Cossu; Marco Presi; Raffaele Corsini; Pallab Choudhury; Amir Khalid; Ernesto Ciaramella
11:00	Experimental Characterization of Traffic Light to Vehicle VLC Link Performance - Kaiyun Cui; Gang Chen; Zhengyuan Xu; Richard Roberts
11:20	Channel Viability of Intra-Vehicle Optical Wireless Communications - Matthew D Higgins; Roger Green; Mark S Leeson
11:40	Optical Multiple Access by Receiver Access Control Protocol for Optical Wireless Networks - Maryam Falahpour; Hassan Moradi; Hazem Refai; Peter LoPresti
12:00	Lunch Break (12:00 - 13:30)
	Emerging Areas in Optical Wireless (Chair: Daniel Xu) — 13:30 - 15:30
	A Novel Power and Offset Allocation Method for Spatial Multiplexing MIMO Systems in Optical Wireless Channels - Ki-Hong Park; Young-Chai Ko; Mohamed-Slim Alouini
13:30	Mohamed-Slim Alouini
13:50	Equalization for Organic Light Emitting Diodes in Visible Light Communications - Hoa Le Minh; Zabih Ghassemlooy; Andrew Burton; Paul Anthony Haigh
14:10	Channel Modeling for Underwater Optical Communication - Chadi Gabriel; Mohammad-Ali Khalighi; Salah Bourennane; Pierre Leon; Vincent Rigaud
14:30	Outage Analysis for Parallel Relay Free-Space Optical Communications with Pointing Errors - Ming Sheng; Jun-Bo Wang; Yuan Jiao; Xiaoyu Dang; Ming Chen
14:50	On the Channel Capacity of Two-dimensional FSO/CDMA Systems Over Atmospheric Turbulence Channels - Anh T. Pham; Tu Luu; Cong Thang Truong
15:10	NLOS UV Communication Systems Using Spectral Amplitude Coding - Mohammad Noshad; Maite Brandt-Pearce
15:30	Coffee/Tea Break (15:30 - 16:00)
	Panel Discussion (Chair: Harald Haas) — 16:00 - 18:00
	Panellists (in alphabetical order): Fred Finkelberg (Light Fantastic Technologies Inc), Prof R. Green (Warwick University), Dr. K.-D. Langer (Fraunhofer / Heinrich Hertz Institute), Prof. T. Little (Boston University), Dr. G. Povey (VLC Ltd), Dr. R. Roberts (Intel Corp.)
16:00	
18:00	End