

PROCEEDINGS CONTENTS

SOMMAIRE DES ACTES DU CONGRÈS

Article displayed in alphabetical order of first author / Article affiché par ordre alphabétique du premier auteur

Suitability of Visible Light Communication for Platooning Applications: an Experimental Study	61
Bastien Béchadergue, Luc Chassagne, Hongyu Guan	
On overcoming photodetector saturation due to background illumination while maintaining high sensitivity by means of a tailored CMOS pixel.....	67
Pablo N. A. Belmonte, Lucas Martins Chaves, Frank Sill Torres, Davies William de Lima Monteiro Universidade Federal de Minas Gerais, UFMG	
Enhanced design of visible light communication sensor for automotive applications: Experimental demonstration of a 130 meters link	73
Alin-Mihai Căilean, Mihai Dimian, Adrian Done	
Visible Light Communication Using DC-biased Optical Filter Bank Multi-carrier Modulation	77
Rui Chen, Ki-Hong Park, Chao Shen, Tien Khee Ng, Boon S. Ooi, Mohamed-Slim Alouini	
5G Internet of Radio Light Services for Musée de la Carte à Jouer	83
John Cosmas, Ben Meunier, Kareem Ali, Nawar Jawad, Hong-Ying Meng, Florian Goutagneux, Eric Legale, Matteo Satta, Pascaline Jay, Xun Zhang, Chuanxi Huang, Jorge Garcia, Marios Negru, Yue Zhang, Tasos Kourtis, Charilaos Koumaras, Christos Sakkas, Li-Ke Huang, Rudolf Zetik, Krzysztof Cabaj, Wojciech Mazurczyk, M. Emre Cakan, Adam Kapovits	
Decoding Methods in LED-to-Smartphone Bidirectional Communication for the IoT	89
Alexis Duque, Razvan Stanica, Herve Rivano, Adrien Desportes	
10 Gbit/s Bidirectional Transceiver with Monolithic Optic for Rotary Connector Replacements	95
Michael Faulwaßer, René Kirrbach, Tobias Schneider, Alexander Noack	
Secured and Green Data Processing and Transmission in a Human-Vehicle Interaction ADAS System	103
Hongyu Guan, Daniel Jutras, Zhuosha Guo	
High-efficient Manchester coding for beacon-to-CMOS camera in Visible Light Communications	109
Clément Lartigue, Jacob Green, Huetzin Pérez-Olivas, Jorge García-Márquez, Suat Topsu	
Infrared and Visible links for medical Body Sensor Networks	113
C. Lebas, S. Sahuguede, A. Julien-Vergonjanne, P. Combeau, L. Aveneau	
Multiple Speaker Localization and Identification through Multiple Camera and Visible Light Communication	119
Lefevre Florent, Fabiàn Seguel, Bombardier Vincent, Krommenacker Nicolas, Charpentier Patrick, Petat Bertrand	
A Multi-Cell Lighting Testbed for VLC and VLP	123
Thomas Little, Michael Rahaim, Iman Abdalla, Emily Lam, Richard Mcallister, Anna Maria Vegni	
An OFDM Testbed for LiFi Performance Characterization of Photovoltaic Modules	129
N. Lorrière, E. Bialic, M. Pasquinelli, G. Chabriel, J. Barrère, L. Escoubas, J.-J. Simon	
Performance Optimization in Multi-user Multiband Carrierless Amplitude and Phase modulation for Visible Light Communication.....	135
M. Mohammedi Merah, H. Guan, L. Chassagne	
LiFiX: a fully bidirectional CMOS light communication device.....	139
Thomas Mérelle, Benoit Bataillou	

An OWC Network Solution with Intercell Interference Coordination.....	145
David Miras, Luc Maret, Mickael Maman, Marc Laugeois, Xavier Popon, Dimitri Kténas	
On the Optimality of Multiple Photodiode Receivers Using Precoding Schemes for Visible Light Communications	151
Máximo Morales Céspedes, Ana García Armada	
On Human to Database Interface Based on Visible Light Communication.....	155
Marek Novak, Ales Dobesch, Otakar Wilfert	
Pilot Li-Fi Installation in a Conference Room in Mainau - Lake Constance: Realization and Outlook.....	163
Anagnostis Paraskevopoulos, Dominic Schulz, Jonas Hilt, Peter Hellwig, Volker Jungnickel	
Ultra-wide coverage VLC system with alignment-free receiver	167
Crisanto Quintana, Hyunhae Chun, Rahmat Mulyawan, Grahame Faulkner, Steve Collins, Dominic O'Brien, Enyuan Xie, Jonathan J. D. McKendry, Erdan Gu, Martin D. Dawson, Pavlos P. Manousiadis, Dimali A. Vithanage, Graham A. Turnbull, Ifor D.W. Samuel	
Tunable Graphene Integrated Perfect Metamaterial Absorber for Energy Harvesting and Visible Light Communication.....	171
Cumali Sabah	
Measurement Based Correlation Analysis of a Hybrid Optical Wireless / 60 GHz Link	175
Dominic Schulz, Julian Hohmann, Jonas Hilt, Peter Hellwig, Ronald Freund, Volker Jungnickel	
Ethernet over commercial lighting by a Visible Light Communication.....	179
A. Sturniolo, G. Cossu, A. Messa, E. Ciaramella	
Can Balloons Produce Li-Fi? A Disaster Management Perspective.....	183
Atchutananda Surampudi, Sankalp Sirish Chapalgaonkar, Paventhan Arumugam	
Eye-Fi: integrating optical data communication into intraocular lenses.....	189
Vinícius Vecchia, Marcos Flávio Silva, Davies William de Lima Monteiro	
Analog Antenna Diversity for Reliable Optical Wireless Communication Systems	195
Pablo Wilke Berenguer, Jonas Hilt, Peter Hellwig, Dominic Schulz, Johannes K. Fischer, Volker Jungnickel	
Efficient Pulse Amplitude Modulation for SPAD-based receivers	201
Long Zhang, Hyunhae Chun, Grahame Faulkner, Dominic O'Brien, Steve Collins	
Worst-Case Residual Clipping Noise Power Model for Bit Loading in LACO-OFDM	207
Zhenyu Zhang, Anas Chaaban, Chao Shen, Hany Elgala, Tien Khee Ng, Boon S. Ooi, Mohamed-Slim Alouini	