

UComms'16 schedule. August 30th, 2016

Monday, August 29, 2016	
19:00	Ice Breaker – Ristorante Cristobal

Tuesday, August 30, 2016	
08:00	Bus to the venue
08:15	Registration
09:00	Opening Session by the conference chairs and the CMRE Director of Program, Dr. Alain Maguer
09:15	Keynote speech by Prof. Milica Stojanovic
	<i>Technical Session: Applications and Requirements</i>
10:00	<i>Effects of Metal Structures on Magneto-Inductive Coupled Coils</i> N. Ahmed, Y. Zheng, D. Pommerenke
10:25	<i>Underwater Communication Requirements in Coordinated Autonomous Manipulation: the MARIS Project</i> D. Fenucci, A. Caiti, E. Simetti, G. Casalino
10:50	Coffee Break
11:20	<i>Human-Robot Interaction Underwater: Communication and Safety Requirements</i> N. Miskovic, M. Egi, Đ. Nađ, A. Pascoal, L. Sebastiao, M. Bibuli
11:45	Acoustic Communication and Navigation in the New Arctic - A Model Case for Environmental Adaptation H. Schmidt, T. Schneider
12:10	<i>The SWIGacoustic Standard</i> A. Smerdon, F. Bustamante, M. Baker
12:35	Lunch
	<i>Technical Session: Physical Layer In Acoustic Communications 1</i>
14:00	<i>Adaptive Power Allocation for Noncooperative OFDM Systems in UWA Interference Channels</i> A. Pottier, F. Socheleau, C. Laot
14:25	<i>Iterative Sparse Channel Estimation for Acoustic OFDM Systems</i> S. Tadayon, M. Stojanovic
14:50	<i>Energy-efficient OFDM Bandwidth Selection for Underwater Acoustic Carrier Aggregation Systems</i> X. Zhao, D. Pompili, J. Alves
15:15	<i>Decision Tree-Based Adaptive Modulation for Underwater Acoustic Communications</i> K. Pelekanakis, L. Cazzanti, G. Zappa, J. Alves
15:40	Coffee Break
	<i>Technical Session: Networking, Localisation and Scheduling 1</i>
16:10	<i>Efficient Link Discovery for Underwater Networks</i> R. Diamant, R. Francescon, M. Zorzi
16:35	<i>Experimental Demonstration of Super-TDMA: A MAC Protocol Exploiting Large Propagation Delays in Underwater Acoustic Networks</i> P. Anjangi, M. Chitre
17:00	END
17:15	Bus from the venue



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Wednesday, August 31, 2016	
08:20	Bus to the venue
08:45	Registration
	<i>Technical Session: Networking, Localisation and Scheduling 2</i>
09:00	<i>Unslotted Transmission Schedules for Practical Underwater Acoustic Multihop Grid Networks with Large Propagation Delays</i> P. Anjangi, M. Chitre
09:25	<i>A Distributed ID Assignment and Topology Discovery Protocol for Underwater Acoustic Networks</i> R. Petroccia
09:50	<i>On the Accuracy of Passive Multipath-Aided Underwater Range Estimation</i> E. Dubrovinskaya, I. Nissen, P. Casari
10:15	<i>Collaborative Localization of Vehicle Formations Based on Ranges and Bearings</i> B. Ferreira, J. Gomes, C. Soares, J. Costeira
10:40	Coffee Break
	<i>Technical Session: Physical Layer In Acoustic Communications 2</i>
11:10	<i>Model-Based Signal Detection in Snapping Shrimp Noise</i> A. Mahmood, H. Vishnu, M. Chitre
11:35	<i>Blind Equalization of Underwater Acoustic Channels using Implicit Higher-Order Statistics</i> K. Blom, H. Dol, A. Kokkeler, G. Smit
12:00	<i>Uncoded Acoustic Communication in Shallow Waters with Bursty Impulsive Noise</i> A. Mahmood, M. Chitre
12:25	Lunch
	<i>Technical Session: Non-Acoustic Communication Modalities 1</i>
14:00	<i>Non-visible light underwater optical communications</i> N. Farr, C. Pontbriand, J. Ware, L. Pelletier
14:25	<i>Dipole Antenna for Underwater Radio Communications</i> S. Inácio, M. Pereira, H. Santos, L. Pessoa, F. Teixeira, M. Lopes, O. Aboderin, H. Salgado
14:50	<i>Experimental testbed for seawater channel characterization</i> P. Mena, P. Dorta, G. Quintana, I. Perez-Alvarez, E. Yguacel, S. Zazo, M. Perez, L. Cardona, J. Hernandez
15:15	<i>Investigation on Radio Wave Propagation in Shallow Seawater: Simulations and Measurements</i> E. Yguacel, G. Quintana, P. Mena, P. Dorta, I. Perez-Alvarez, S. Zazo, M. Perez, E. Quevedo
15:40	Coffee Break
	<i>Technical Session: "Off-The-Record" – Collection of papers not for publishing</i>
16:10	<i>Sub-Ice Glider Navigation & Communication</i> (From "Applications and Requirements") A. Morozov, D. Green, C. Jones
16:35	<i>Autonomous Power Control For Acoustic Modems</i> (From "Physical Layer In Acoustic Communications") D. Green
17:00	<i>SEANet G3: High-Data-Rate Software-Defined Underwater Acoustic Network Platform</i> (From "Architectures and Novel Stacks") E. Demirors, T. Melodia
17:25	<i>An analysis of 1 and 2-D arrays for adaptive multichannel equalizers in underwater acoustic communications</i> (From "Simulation, Models and Test Beds") J. Preisig, G. Deane
17:50	End
18:05	Bus from the venue

Thursday, September 1, 2016	
08:20	Bus to the venue
08:45	Registration
	<i>Technical Session: Interoperability and Standards</i>
09:00	<i>Watermark: A realistic benchmark for underwater acoustic modems</i> P. vanWalree, R. Otnes, T. Jenserud
09:25	<i>Fostering the Use of JANUS in Operationally-Relevant Underwater Applications</i> R. Petroccia, J. Alves, G. Zappa
09:50	<i>Experiences with JANUS and efforts towards a common heavy-duty underwater communication stack</i> H. Dol, K. Blom, E. Van Der Spek
10:15	<i>Analysis of JANUS and underwater telephone capabilities and co-existence</i> J. Alves, J. Fricke
10:40	Coffee Break
	<i>Technical Session: Simulation, Models and Test Beds</i>
11:10	<i>Wide-band shallow acoustic channel simulation with realistic Doppler and delay spreading for 3D evolving rough surfaces</i> M. Caley, A. Duncan
11:35	<i>Very High Frequency Noise Sources in the Littoral Zone</i> G. Deane, J. Preisig
12:00	<i>Tethered Balloons and TV White Spaces: A Solution for Real-time Marine Data Transfer at Remote Ocean Areas</i> F. Teixeira, T. Oliveira, M. Lopes, J. Ruela, R. Campos, M. Ricardo
12:25	Lunch
	<i>Technical Session: Non-Acoustic Communication Modalities 2</i>
14:00	<i>OptoCOMM: introducing a new optical underwater wireless communication modem</i> A. Caiti, E. Ciaramella, G. Conte, G. Cossu, D. Costa, S. Grechi, R. Nuti, D. Scaradozzi, A. Sturniolo
14:25	<i>Temporal dispersion in underwater laser communication links: Closing the loop between model and experiment</i> B. Cochenour, A. Laux, L. Mullen
14:50	<i>Development and Validation of Blue Ray, an Optical Modem for the Medusa class AUVs</i> P. Gois, N. Sreekantaswamy, N. Basavaraju, M. Rufino, L. Sebastiao, J. Botelho, J. Gomes, A. Pascoal
15:15	Coffee Break
	<i>Technical Session: Architectures and Novel Stacks + Security In Underwater Communications</i>
15:45	<i>The DESERT Underwater Framework v2: Improved Capabilities and Extension Tools</i> F. Campagnaro, R. Francescon, F. Favaro, F. Guerra, P. Casari, R. Diamant, M. Zorzi
16:10	<i>Secure Underwater Acoustic Networks: Current and Future Research Directions</i> C. Lal, R. Petroccia, M. Conti, J. Alves
16:35	<i>Analytical Metric Weight Generation for Multi-Domain Trust in Autonomous Underwater MANETs</i> A. Bolster, A. Marshall
17:00	Closing Session
17:30	End
17:45	Bus from the venue
19:00	Bus to the dinner
19:30	Social Dinner
00:00	Bus from the dinner



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