



San Francisco, CA, US, June 25, 2012

	<p>First International Workshop on Emerging COgnitive Radio Applications and ALgorithms (CORAL'12)</p>	
<p>GENERAL CHAIRS</p> <p>- Luciano Bononi, <i>University of Bologna</i></p> <p>TPC CHAIRS</p> <p>- Marco Di Felice, <i>University of Bologna</i></p> <p>- Kaushik Chowdhury <i>Northeastern University</i></p> <p>Program Committee:</p> <ul style="list-style-type: none"> - Ian F. Akyldiz, Georgia Institute of Technology, USA - Ozgur Akan, Koc University, Turkey - Edward Au, Huawei Technologies, USA - Gaurav Bansal, Toyota InfoTechnology Center, USA - Danijela Cabric, UCLA, USA - Dave Cavalcanti, Philips Research, USA - Matteo Cesana, Politecnico di Milano, Italy - Rajarathnam Chandramouli, Stevens Institute of Technology, USA - Mainak Chatterjee, University of Central Florida, USA - Xu Chen, The Chinese University of Hong Kong, HK - Panagiotis Demestichas, University of Piraeus, Greece - Kelvin Dias, Federal University of Pernambuco, Brazil - Linda Doyle, Trinity College Dublin, Ireland - Mario Gerla, UCLA, USA - Ali J. Ghandour, American University of Beirut, Lebanon - Chittabrata Ghosh, Nokia Research Center, USA - Vehbi Cagri Gungor, Bahcesehir University, Turkey - Aravind Kailas, University of North Carolina at Charlotte, USA - Andreas J. Kassler, Karlstad University, Sweden - Ivana Marić, Stanford University, USA - Tommaso Melodia, State University of New York at Buffalo, USA - Christophe Moy, SUPELEC/IETR, France - Peyman Setoodeh, McMaster University, Canada - Violet Syrotiuk, Arizona State University, USA - RangaRao Venkatesha Prasad, Delft University of Technology, Belgium - Qin Xin, Université Catholique de Louvain, Belgium - Alexander M. Wyglinski, Worcester Polytechnic Institute, USA - Wei Zhang, University of New South Wales, Australia - Michele Zorzi, Università degli Studi di Padova, Italy <p>TO BE COMPLETED</p>	<p>Cognitive Radio (CR) is emerging as one of the key technologies to solve the problem of spectrum scarcity faced by current wireless systems. A CR network aims to support highly reconfigurable devices that are capable of sensing the current environment, and adapting the transmission parameters to the specific scenarios, also based on the Quality of Service (QoS) requirements of the applications. The potential deployment of CR networks has been further augmented through various standardization activities supported by the IEEE (e.g. IEEE 802.22, IEEE 802.16h, IEEE 802.11y), and directives of spectrum regulatory agencies (e.g. the FCC in US). These efforts have opened portions of the spectrum for opportunistic spectrum access and laid down rules for sharing the spectrum so that general purpose networks as well as communication in critical scenarios, like vehicular networks, public safety networks, emergency networks are supported. However, to fully realize the potential of CR networks, there is a need to draw the attention of the research community for developing advanced, context-based and innovative methodologies, techniques and algorithms possibly inspired by multi-disciplinary research fields.</p> <p>The objective of this workshop is to bring together practitioners and researchers from both academia and industry in order to have a forum for discussion and technical presentations on the recent advances in both the methodological and algorithmic aspects and the novel applications of cognitive radio networking. In line with such objectives, original contributions are solicited in topics of interest including, but not limited to, the following:</p> <ul style="list-style-type: none"> - Centralized/Distributed algorithms for Radio Resource Management in CR networks - Centralized/Distributed algorithms for CR network management - Machine learning techniques for CR networks - Swarm Intelligence and biological-inspired networking for CR networks - Cooperative and non-cooperative techniques for spectrum management and access - Algorithms and protocols for self-configuring CR networks - Environmental and context-based factors exploitation in CR systems - Space-Time spectrum information sharing and RF DB integration in CR systems - Protocol stack adaptation and Cross-layering in CR systems - Multi-disciplinary approaches and solutions for novel CR methodologies - Spectrum sensing and spectrum sharing techniques - Game theoretical analysis of CR networks - CR enhanced vehicular networks - Dynamic Spectrum Access (DSA) and Management in vehicular environments - Mobile Cognitive Radio Ad Hoc Networks - CR for emergency and public safety applications - CR for wireless medical networks - CR implementations and test-beds - Novel Applications of CR technology - Emergent behavior of CR systems - New paradigms for CR systems - Modeling, Analysis and Simulation of CR technologies and CR networks - Security and safety aspects of CR systems 	
<p>Submission Deadline: February 5, 2012</p>	<p>Notification Deadline: April 8, 2012</p>	<p>Workshop Date: June 25, 2012</p>

Papers should neither have been published elsewhere nor currently under review by another conference or journal. Please note that all accepted papers will need to have a full registration to the conference (there is no workshop only registration). In addition, no-shows of accepted papers at the workshop will result in those papers NOT being included in the IEEE Digital Library. All submitted papers will be reviewed by up to three experts and if accepted, included in conference proceedings published by IEEE. At least one author of accepted papers is required to register at the full registration rate. For more information: <http://www.cs.unibo.it/coral2012>