



5th International Workshop on Codes, Cryptography and Communication Systems

**November 27th-28th, 2014
El Jadida - Morocco**

***WCCCS'14
Program***

PRESENTATION GUIDELINES:

- All presentations should be in English or French.
- The time provided for oral presentations is 20 min (15 min for the presentation and 5 min for the discussion).
- The speakers should give their slides to the session chair before the beginning of each session.
- For poster presentations, the posters should be displayed one hour before the beginning of the poster session and any explanation required should be provided to session chairs and visitors.
- The program is divided into two parallel oral sessions (S-CCA: Codes, Cryptography & Applications, S-ACS Advanced Communication Systems) and two poster sessions.

TOPICS:

<i>Codes, Cryptography & Applications (CCA)</i>	<i>Advanced Communication Systems (ACS)</i>
<ul style="list-style-type: none">• Error Correcting Codes: Design and Decoding Algorithms• Cryptography, Watermarking and Cryptanalysis• Information and Communication Theories• Turbo-codes, Iterative Processing• Channel Characterization and Modeling• Network Coding• Genetic Algorithms & Neural Networks for Communication System	<ul style="list-style-type: none">• Wireless Communication• MIMO Systems• Wireless Sensor Network• Broadband Communication Systems• Communication and System Security• Cognitive Radio Networks• Signal, Image and Video Processing• Optimization for Communication Systems

PROGRAM AT A GLANCE:

Thursday November 27th 2014			
8h00-9h00	Registration		
9h00-9h30	Opening Ceremony		
9h30-10h20	Keynote : Pr. Jalel BEN-OTHMAN		
10h20-10h45	Break		
10h45-12h30	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Session I- CCA</td> <td style="width: 50%; text-align: center;">Session I- ACS</td> </tr> </table>	Session I- CCA	Session I- ACS
Session I- CCA	Session I- ACS		
12h30-14h00	Lunch		
14h00-14h50	Keynote : Pr. Philippe ROOSE		
14h50-15h20	Break around the Posters : Session I-Posters		
15h20-16h15	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Session II- CCA</td> <td style="width: 50%; text-align: center;">Session II-ACS</td> </tr> </table>	Session II- CCA	Session II-ACS
Session II- CCA	Session II-ACS		
16h15-18h30	Social Event		
Friday November 28th 2014			
8h00-9h00	Registration		
9h00-9h50	Keynote : Pr. Aawatif HAYAR		
9h50-10h30	Break around the Posters : Session II-Posters		
10h30-12h10	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Session III- CCA</td> <td style="width: 50%; text-align: center;">Session III-ACS</td> </tr> </table>	Session III- CCA	Session III-ACS
Session III- CCA	Session III-ACS		
12h10-14h30	Lunch		
14h30-15h20	Keynote : Pr. Mohamed BAKHOUYA		
15h20-17h00	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Session IV- CCA</td> <td style="width: 50%; text-align: center;">Session IV-ACS</td> </tr> </table>	Session IV- CCA	Session IV-ACS
Session IV- CCA	Session IV-ACS		
17h00-18h00	Break and Closing Ceremony		

ORAL SESSIONS

Thursday November 27th, 2014

9h00-9h30 **Opening Ceremony**

9h30-10h20

Keynote 1: Pr. Jalel BEN-OTHTMAN, Paris 13 University, France

Title “Security Issues in VaNets”

10h45-12h30

Session I (CCA)

ID25	<ul style="list-style-type: none"> On a class of linear codes whose automorphism group is dihedral Abdelfattah Haily and Driss Harzalla
ID19	<ul style="list-style-type: none"> Discrete Cat Swarm Optimization algorithm apply to combinatorial optimization problems Abdelhamid Bouzidi and Mohammed Essaid Riffi.
ID43	<ul style="list-style-type: none"> Identification and Equalization Using Higher Order Cumulants in MC-CDMA Systems Mohammed Zidane, Said Safi, Mohamed Sabri and Ahmed Boumezzough.
ID47	<ul style="list-style-type: none"> New system forecast e-health by using hybrid of association rules and decision tree Ahmed El Haddioui, Soumaya El Mamoune, Loubna Cherrat, Tayeb Sadiki, Mohamed Boulmalf and Mostafa Ezziyyani
ID51	<ul style="list-style-type: none"> Content-Based shape retrieval (CBIR) using different shape descriptors Abderrahim Khatabi, Amal Tmiri, Ahmed Serhir and Hassan Silkan.

Session I (ACS)

ID28	<ul style="list-style-type: none"> Analysis and Simulation of MAC Layer Misbehavior in Mobile Ad-Hoc Networks Mohammed-Alamine El Houssaini, Abdessadek Aaroud, Ali El Hore and Jalel Ben-Othman.
ID62	<ul style="list-style-type: none"> Cognitive Detect-and-Forward Relay Channels: Soft Metrics and Performance Analysis Anas Fedoul and Mustapha Benjillali.
ID67	<ul style="list-style-type: none"> New Technique of Localization a Targeted Virtual Machine in a Cloud Platform Hicham Boukhriss, Ali Azougaghe, Mustapha Hedabou.
ID81	<ul style="list-style-type: none"> Construction and Analysis of a Minimum Spanning Tree Algorithm Nassiri Khalid, El Hibaoui Abdelaaziz and Hajar Moha.
ID2	<ul style="list-style-type: none"> Extraction de la phase interferometrique par la methode hilbert huang transform a partir d'une seule image non portee Said Amar, Mustapha Bahich, Elmostapha Barj and Mohammed Afifi

ORAL SESSIONS
Thursday November 27th, 2014

14h00-14h50

Keynote 2: Pr. Philippe ROOSE, LIUPPA research lab. University of Pau, France
Title “*Toward Eternal Applications*”

15h20-16h15

Session II (CCA)

ID68	<ul style="list-style-type: none">• Cyclic sparse deconvolution through convex relaxation Abdelouahad Choklati and Khalid Sabri.
ID83	<ul style="list-style-type: none">• Correction Arabic words derived with the use of surface patterns Mohammed Nejja and Abdellah Yousfi.
ID32	<ul style="list-style-type: none">• How can we succeed the Fault Attack on PACE protocol Abdelmalek Azizi, Moulay Chrif Ismaili and Taoufik Serraj.

Session II (ACS)

ID88	<ul style="list-style-type: none">• Etude et Comparaison de Plateformes Dédiées aux « Smart Cities » : Cas de la Plateforme Kalimucho Abdelkarim Benhaourech, Abdessadek Aaroud, Philippe Roose and Khalid Zine-Dine.
ID42	<ul style="list-style-type: none">• Estimation of 3-D Frequencies in a Colored Gaussian Noise and calculation of its Cramer-Rao Bound Youness Chawki, Mohammed Ouanan and Brahim Aksasse.
ID27	<ul style="list-style-type: none">• On the Performance of Energy Detection Spectrum Sensing for Interweave Cognitive Radio Imane Boufrikech, Mustapha Benjillali and Ahmed Tamtaoui.

ORAL SESSIONS

Friday November 28th, 2014

9h00-9h50

Keynote 3: Pr. A. HAYAR, GREENTIC/ENSEM, University Hassan II Casablanca, Morocco

Title “Cross-Layer Design for Spectrum and Energy Efficient Wireless Networks”

10h30-12h10

Session III (CCA)

ID1	<ul style="list-style-type: none"> Invited paper : Test de Primalite et Repartition des Nombres Premiers Guillaume Hawing: UMG, Guinée Conakry
ID29	<ul style="list-style-type: none"> On Constacyclic codes over Z_p^m Mohamed E. Charkani and Joel Kabore.
ID46	<ul style="list-style-type: none"> Hybrid Automatic Repeat Request Protocols : Turbo-Codes versus Cyclic Low-Density Parity-Check Codes Anouar Yatribi, Zakaria M'Rabet, Fouad Ayoub, Ahmed Azouaoui and Mostafa Belkasmi
ID85	<ul style="list-style-type: none"> A new performances analysis for MRC receiver over correlated weibull multipath fading channels Abdelmajid Bessate and Faissal El Bouanani.

Session III (ACS)

ID26	<ul style="list-style-type: none"> Hybrid architecture for Spectrum Sensing Algorithm Based on Energy detection technique and Artificial Neural Networks Elharras Abdessamad, Rachid Saadane, Mohamed Wahbi and Abdellatif Hamdoun.
ID33	<ul style="list-style-type: none"> Achieving Always Best Connected Service for a Mobile User in VANET Abdelfettah Mabrouk, Kobbane Abdellatif, Essaid Sabir and Mohammed El Koutbi.
ID80	<ul style="list-style-type: none"> Un Protocole de Regroupement Flou pour les Réseaux de Capteurs sans Fil Hétérogènes Alami Chaibrassou and Ahmed Mouhsen.
ID13	<ul style="list-style-type: none"> Cylindrical Dielectric Resonator Antenna for Multiband Communication Systems Kaoutar Allabouche, Najiba El Amrani El Idrissi, Mohamed Jorio and Tomader Mazri.
ID63	<ul style="list-style-type: none"> A new Genetic Algorithms based detector for MIMO STBC systems Herve Koudougnon, Ahmed Azouaoui and Mostafa Belkasmi.

ORAL SESSIONS

Friday November 28th, 2014

14h30-15h20

Keynote 4: Pr. M. BAKHOUYA, International University of Rabat – UIR, Morocco

Title “Bio-inspired Approaches for Engineering Adaptive Systems”

15h20-17h00

Session IV (CCA)

ID78	<ul style="list-style-type: none">• A matrix based error correcting code Lipin Cheng, Ren Jye Yeh and Umesh Deo.
ID12	<ul style="list-style-type: none">• Discrete Novel Hybrid Particle Swarm Optimization To Solve Travelling Salesman Problem Morad Bouzidi and Mohammed Essaid Riffi.
ID35	<ul style="list-style-type: none">• A Comparative approach of different Or-BAC extensions : application and limits Kassid Amsaa and El Kamoun Najib.
ID77	<ul style="list-style-type: none">• SMPMA: Semantic multimodal Profile for Multimedia documents adaptation Hajar Khallouki, Mohamed Bahaj, Philippe Roose and Sébastien Laborie.
ID75	<ul style="list-style-type: none">• Surveillance des Systèmes à Événements Discrets Mohamed Fri and Belmajdoub Fouad.

Session IV (ACS)

ID18	<ul style="list-style-type: none">• An Optimized DV-Hop Localization Algorithm in Wireless Sensor Networks Based on Average Hop Weighted Mean Abdelali Hadir, Khalid Zine-Dine, Mohamed Bakhouya and Jamal El Kafi.
ID76	<ul style="list-style-type: none">• Intrusion Detection Systems in Mobile Ad Hoc Networks: A Survey Mohamed Elboukhari, Mostafa Azizi and Azizi Abdelmalek.
ID39	<ul style="list-style-type: none">• Virtual MIMO Systems: A Game Theoretical Approach Hassan Bennani, Essaid Sabir, Abdellatif Kobbane and Mohammed El Koutbi.
ID36	<ul style="list-style-type: none">• Modeling and Simulation of VANET in Traffic City Younes Regragui and Najem Moussa
ID6	<ul style="list-style-type: none">• A new mechanism for RFID clustering and identification Fathia Ouakasse and Said Rakrak

POSTER SESSIONS
Thursday November 27th, 2014

Session-I 14h50-15h20

ID21	<ul style="list-style-type: none"> • Analysis and Evaluation of the DCF on the WLAN to improve Wireless Network Performance Sara Khairi, Hamid Allouch and Mostafa Belkasmi
ID34	<ul style="list-style-type: none"> • An overview of image and video transferring over wireless sensor networks Bennani Mohamed Taj and Ait Kbir Mohamed.
ID41	<ul style="list-style-type: none"> • Green Opportunistic access for CRN with selfish users using Coalitional game Approach in partition form Imane Daha Belghiti , Mouna El Machkour, Ismail Berrada and Abdellatif Kobbane
ID54	<ul style="list-style-type: none"> • Joint mission and communication aware node placement problem in mission-specific mobile sensor networks Hicham Ouchitachen, Abdellatif Hair, Najlae Idrissi.
ID11	<ul style="list-style-type: none"> • Security Analysis of Low Cost RFID Systems Ahmed Maarof, Zouheir Labbi, Mohamed Senhadji and Mostafa Belkasmi.
ID31	<ul style="list-style-type: none"> • Accélération de la détection des bandes libres par RNA sur GPU Yassine El Hafid, Abdessamad Elrharras, Karim Guennoun, Abdelkader Amri and Mohammed Wahbi.
ID23	<ul style="list-style-type: none"> • Adapting the hybrid cuttlefish algorithm to the travelling salesman problem Fatima Sayoti and Mohammed Essaid Riffi.
ID82	<ul style="list-style-type: none"> • Performance analysis of Broadcast protocols in Mobile Ad Hoc Networks Mohammed Chekhar, Khalid Zine-Dine, Abedsadek Aaroud and Mohamed Bakhouya

POSTER SESSIONS
Friday November 28th, 2014

Session-II 9h50-10h30

ID52	<ul style="list-style-type: none"> • Towards a ZigZag-Decoding-Enabled Distributed Coordination Function for WLANs Sara Arabi, Essaid Sabir and Mohammed Sadik.
ID48	<ul style="list-style-type: none"> • A method to search good quasi-cyclic codes using new Simulated Annealing Bouchaib Aylaj, Mostafa Belkasmı and Said Nouh.
ID37	<ul style="list-style-type: none"> • Quantum Cryptographic Protocols: A Review Chanigui Essaid and Azizi Abdelmalek
ID73	<ul style="list-style-type: none"> • Movement Assisted-Topology Recovery and Game Theory for Underwater Sensor Network Mohammed Jouhari, Khalil Ibrahimi and Mohammed Benattou.
ID79	<ul style="list-style-type: none"> • Routing in sensor networks: A new variant of the LEACH protocol Saida Rafie, Mohamed El Kamili, Mohammed Meknassi and My Lahcen Hasnaoui.
ID38	<ul style="list-style-type: none"> • Performance comparisons of routing protocols for Mobile Ad Hoc Networks Layla Aziz, Said Raghay and Abdellah Jamali.
ID56	<ul style="list-style-type: none"> • Conception et simulation d'une antenne plane de F-inversée pour les applications sans fil de 2.4 Ghz Mustapha El Halaoui, Hassan Asselman and Saida Ahyoud
ID58	<ul style="list-style-type: none"> • Towards a new Architecture for Intrusion detection in Wireless Sensor Network Maleh Yassine and Ezzati Abdellah.
ID84	<ul style="list-style-type: none"> • Segmentation of handwritten text lines in Arabic Younes Mokhtari and Abdellah Yousfi.
ID9	<ul style="list-style-type: none"> • Modèles de Contrôle d'Accès: Etat de l'Art et Etude Comparative Mouad Mammass and Fattehallah Ghadi.
ID4	<ul style="list-style-type: none"> • Restauration d'Image par Application du Lissage Gaussien et de la déconvolution de Wiener Fouad Aouinti, M'Barek Nasri and Mimoun Moussaoui

KEYNOTE SPEAKERS

Keynote Speakers Biographies



Jalel BEN-OTHTMAN received his B.Sc. and M.Sc. degrees both in Computer Science from the University of Pierre et Marie Curie, (Paris 6) France in 1992, and 1994 respectively. He received his PhD degree from the University of Versailles, France, in 1998. He was an Assistant Professor at the University of Orsay (Paris 11) and University of Pierre et Marie Curie (Paris 6), in 1998 and 1999 respectively. He was an Associate Professor at the University of Versailles from 2000 to 2011. He is now full professor at University of Paris 13. Dr. Ben-Othman's research interests are in the area of wireless ad hoc and sensor networks, Broadband Wireless Networks, multi-services bandwidth management in WLAN (IEEE 802.11), WMAN (IEEE 802.16), WWAN (LTE), security in wireless networks in general and wireless sensor and ad hoc networks in particular. His work appears in highly respected international journals and conferences, including, IEEE ICC, Globecom, LCN, VTC, PIMRC, etc. He has supervised and co-supervised several graduate students in these areas.



Philippe ROOSE is associate Professor at LIUPPA research lab – University of Pau/France. He is currently head of the ANR MOANO Project and head of the Computer Science Dept. of the IUT de Bayonne. He is co-author of the KalimuchoTM platform (patented) and is currently involved in the creation of the Kalimucho Start-up. He supervised 7 PhD thesis and was involved in more than 20 PhD defenses. He published many national and international articles, journals and books (>50). His works are mainly focuses on middleware, software architecture, dynamic adaption, context-aware, and multimedia documents.



Aawatif HAYAR received the “Agrégation Génie Electrique” from Ecole Normale Supérieure de Cachan in 1992. She received the “Diplôme d'Etudes Approfondies” in Signal processing Image and Communications and the degree of Engineer in Communications Systems and Networks from ENSEEIHT de Toulouse in 1997. She received with honors the Ph.D. degree in Signal Processing and Communications from Institut National Polytechnique de Toulouse in 2001. She was research and teaching associate at EURECOM’s Mobile Communication Department from 2001 to 2010. Aawatif Hayar is currently with GREENTIC R&D Organization (Morocco) as General Secretary and expert in cognitive green ICT field. She has also joined in 2011 the engineering school ENSEM at the University Hassan II Casablanca in Morocco. Aawatif Hayar is also member of Casablanca “Avant-garde” City think-tank. Her research interests includes fields such as cognitive green communications systems, UWB systems, smart grids, smart cities, ICT for eco-friendly smart socio-economic development. Aawatif Hayar was a Guest Editor of Elsevier Phycom Journal Special issue on Cognitive Radio Algorithms and System Design in 2009 and General Co-chair of Crowncom2010 (France) dedicated to cognitive radio systems and IW2GN2011 (Morocco) dedicated to wireless green systems. She was co-organiser of GDR-ISIS Cognitive Radio workshop in France in 2011. Aawatif Hayar was also General co-chair of ICT 2013 Conference (Morocco). She is also expert at the European commission level for cognitive and UWB systems. Aawatif Hayar received with one of her PhD students the "best student paper" award at CogArt2010 and has a European patent in cognitive radio field on “Process for sensing vacant bands over the spectrum bandwidth and apparatus for performing the same based on sub space and distributions analysis”.



Mohamed BAKHOUYA is an associate professor at International University of Rabat. He was a senior scientist at Aalto University-Finland. He has more than five years experiences in participating and working in sponsored ICT projects. He was PI of Aalto starting grant at Aalto University-Finland (2011-2013), Co-PI (UTBM side) of two European projects ASSET (Advanced Safety and Driver Support in Efficient Road Transport, FP7-SST, 2008-2011, and TELEFOT (Field Operational Tests of Aftermarket and Nomadic Devices in Vehicles, FP7-ICT, 2008-2012). He spent two years as a research scientist in US at George Washington University, HPC laboratory participating and working in sponsored projects, mainly UPC (Unified Parallel C) and NSF Center of High-performance and REConfigurable Computing. He is also a member (UTBM side) of EU EACEA Erasmus Mundus project TARGET (Transfer of Appropriate Requirements for Global Education and Technology), 2011-2014. He was a reviewer of research project for Agence Nationale de la Recherche, (France, 2011), Ministero dell' Istruzione, dell' Università e della Ricerca (Italy, 2012), and currently for EU-FP7. He also serves as a guest editor of a number of international journals, ACM Trans. on Autonomous and Adaptive Systems, Product Development Journal, and Concurrency and Computation: Practice and Experience. His research interests include various aspects on the design, validation, and implementation of distributed systems, architectures, and protocols. He is member of IEEE and ACM.

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