



# Report on CrownCom 2007 & 2008 - IEEE TCCN Meeting within Globecom 2007

Honggang Zhang (CREATE-NET)  
R. Chandramouli (Stevens Institute of Technology)  
28 December, 2007  
Hilton Washington Hotel  
Washington, USA





## CrownCom 2007: Second International Conference on Cognitive Radio Oriented Wireless Networks and Communications

- Date: August 1-3, 2007
- Site: Orlando, Florida, USA
- The inter-disciplinary nature of CrownCom 2007 could be recognized by the fact that it was technically sponsored by the IEEE ComSoc, IEEE MTT-S, IEEE VTS, EURASIP, CREATE-NET, ICST, and Stevens Institute of Technology
- Best Paper Award Sponsor: iNET (Stevens Institute of Technology)

Font Size + - er submission to CrownCom 2007 is APRIL 2ND, 2007. New deadline of pap. REQUEST VISITOR VISA HERE

### Welcome to CrownCom 2007

**Second International Conference on Cognitive Radio Oriented Wireless Networks and Communications**

**Scope**

Access to the radio spectrum is presently regulated via license, where the rights to use specific spectral bands are granted exclusively to an individual operator, or completely unlicensed, where certain spectral bands are declared open for free use by any operator or individual following specific rules. While these paradigms have allowed the wireless communications sector to blossom in the past, there is much talk recently about the so-called "cognitive radio" paradigm, wherein spectrum may be efficiently shared in a more flexible fashion by a number of operators/users/systems. Cognitive radio can be thus viewed as an enabling technology that will benefit several types of players, by introducing new communications and networking models for the whole wireless world, creating better business opportunities for the incumbent operators and new technical dimensions for smaller operators, and helping shape an overall more efficient approach regarding spectrum requirements and usage in next generation wireless networks. The aim of this conference is to bring together the state of the art research contributions that address the various aspects of cognitive wireless systems and technologies, including a broad range of communications, networking and implementation issues.

**Latest News**

The new deadline of paper submission is APRIL 2nd, 2007.

A best paper award and a best student paper award will be presented, sponsored by the Center for Intelligent Networks (INETS), Stevens Institute of Technology. Crowncom sponsorship was approved by IEEE ComSoc, VTS, MTTs and EURASIP.

All accepted papers will be made available in IEEE Xplore, as well as indexed by EI and Inspec (IEEE).

Selected papers will be published on a special issue of ACM/Springer MONET journal.



## CrownCom 2007 Statistics (I)

- **Keynote Speech:** 3 internationally recognized experts
  - (1) Dr. Joseph Mitola III, MITRE
  - (2) Dr. Robert O’Dea, Motorola Fellow, Motorola
  - (3) Prof. Victor Lawrence, Associate Dean and Director of iNETS, Stevens Institute of Technology
- **Technical Program:** 78 papers, 3 tracks with 18 sessions included 11 invited papers, 53 accepted (out of 88 submissions) full papers, and 14 work-in-progress short papers. (Every submitted paper was reviewed by at least three independent reviewers)
- CrownCom 2007 attendees: 104
- One **Special Session** on the fundamental theory of dynamic spectrum access organized by Dr. Ananthram Swami (US Army Research Labs) and Dr. Qing Zhao (University of California Davis)
- **Selected Accepted Papers** will appear in **ACM/Springer MONET** (“Cognitive Radio Oriented Wireless Networks”) special issue



## CrownCom 2007 Statistics (II)

### ➤ **2 Best Student Paper Awards:**

(1) Juan-Andres Bazerque and Georgios B. Giannakis, University of Minnesota, “Distributed Scheduling and Resource Allocation for Cognitive OFDMA Radios”

(2) Fan Wang, Marwan Krunz, and Shuguang Cui, University of Arizona, “Price-Based Spectrum Management in Cognitive Radio Networks”

### ➤ **2 Panels:**

(1) “Cognitive Radio Spectrum Access: What About QoS Support?”: organized by David Grandblaise (Motorola, France) and Patricia Martigne (Orange-FTP, France); panelists: Kiran Challapalli (Philips Research), Klaus Mossner (University of Surrey, UK), John Sydor (CRC, Canada) and Kazunori Takeuchi (KDDI R&D Labs, Japan)

(2) “Sharing Spectrum with Television Broadcasters”: organized by Jon Peha (CMU); panelists: Jon Peha (CMU), Bruce Franca (MSTV), Kiran Challapalli (Philips Research), Kyutae Lim (Georgia Tech) and Chuck Jackson (JTC)

### ➤ **2 Tutorials:**

(1) Luiz DaSilva and A. B. MacKenzie (Virginia Tech): fundamental concepts of cognitive networks

(2) B. Farhang-Boroujeny and R. Kempter (University of Utah): signal processing aspects of cognitive wireless networks



## CrownCom 2007 Highlights



Keynote Speech by Dr. Joseph Mitola III



Keynote Speech by Dr. Robert O'Dea



Keynote Speech by Dr. Victor Lawrence



Opening Ceremony of CrownCom 2007



## CrownCom 2008: Third International Conference on Cognitive Radio Oriented Wireless Networks and Communications

- Co-organizers: I2R (Institute for Infocomm Research), CREATE-NET, ICST
- Date: 15-17 May, 2008
- Site: Singapore (Note: VTC2008-Spring in Singapore, May 11-14, 2008)
- Technical Co-sponsors: IEEE MTT-S (approved), IEEE ComSoc (under application), IEEE VTS (under application)

### Dates & News

**Paper Submission**  
*15 January 2008*

**Acceptance Notification**  
*1 March 2008*

**Camera-Ready Paper**  
*24 March 2008*

**Special Session Proposal**  
*15 December 2007*

**Tutorial Proposal**  
*15 January 2008*



## CrownCom 2008 Key Players

### Organizing Committee

Title	Name	Affiliation
General Chairs	Francois Chin Geok Leng Tan	i <sup>2</sup> R, Singapore IDA, Singapore
General Vice-Chair	Yong Huat Chew	i <sup>2</sup> R, Singapore
Technical Program Chairs	Ying-Chang Liang Vahid Tarokh Douglas Sicker Qian Zhang	i <sup>2</sup> R, Singapore Harvard U, USA U of Colorado, USA Hong Kong UST, China
Sponsorship Chair	Chia-Chin Chong	DoCoMo USA Labs
Panel Chairs	Zander Lei Haifeng Wang	i <sup>2</sup> R, Singapore Nokia, China
Tutorial Chair	Hitoshi Yoshino	NTT DoCoMo, Japan
Special Sessions Chair	Chang-Joo Kim	ETRI, Korea
Publicity Chairs	Maria-Gabriella Di Benedetto Hiroschi Harada Gang Wu	U of Rome La Sapienza NICT, Japan U Elect Sci Tech, China
Publication Chair	Yonghong Zeng	i <sup>2</sup> R, Singapore
Organizing Chair	Kitti H. Kovacs	ICST - European
Web Chair	Wai-Leong Yeow	i <sup>2</sup> R, Singapore
Local Arrangement Chair	Manjeet Singh	i <sup>2</sup> R, Singapore



**See You in Singapore (CrownCom 2008) -  
Thanks!**

[honggang.zhang@create-net.org](mailto:honggang.zhang@create-net.org)  
[mouli@stevens.edu](mailto:mouli@stevens.edu)