



NEWCOM⁺⁺
WPS1 - Workshops and Conferences Activities
Year 2 Report (*January 1 - December 31, 2009*)

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Participating institutions: All

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Abstract: This yearly report summarizes the NEWCOM⁺⁺ activities carried out over the period of January 1- December 31, 2009 concerning:

- Organization of major, already existing international conferences and workshops to be held in the participating countries.
- Organization of the special sessions within the framework of NEWCOM⁺⁺ during major international conferences on the subject of wireless communications and related issues.
- Organization of specific annual NoE workshops that have to be coordinated in a uniform way throughout the life of the NoE.

Keyword list: Conferences, Special Sessions, Workshops

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SECTION 1 – INTRODUCTION

The main objectives of the work package WPS1 - **Workshops and Conferences Activities** are as follows:

- Promote the NEWCOM involvement in the organization of major, already existing international conferences and workshops to be held in the participating countries.
- Organize special sessions within the framework of NEWCOM⁺⁺ during the major international conferences on the subject of wireless communications and related issues.
- Organize specific annual NoE workshops that have to be coordinated in a uniform way throughout the life of the NoE.

SECTION 2 – ACTIVITY DONE DURING THE SECOND YEAR

2.1 Organized NEWCOM Conferences, Workshops and Special Sessions in 2009

2.1.1 Workshops

1. NEWCOM⁺⁺ - ACoRN Joint Workshop, March 30-April 1, 2009, Barcelona, Spain
General Chair: R. Agusti (UPC)
Technical program Chair: A. Polydoros (IASA)
2. Radio Access and Spectrum (RAS) Workshop at VTC 2009, April 2009, Barcelona, Spain
Co-Organizer: Jossy Sayir (FTW)
3. International Workshop on Synergies in Communications and Localizations (SYCoLo 2009), ICC 2009, June 18, 2009, Dresden, Germany
Organizer: Marco Luise (CNIT)
4. Physical Layer Security Workshop, 7-8 September 2009, Padova, Italy
Organizer: Ana N. Laurenti, L. Vangelista (CNIT) and M. Debbah (CNRS)
5. RAS "Hot Topics" Workshop, September 2009, Brussels, Belgium
Organizer and Chair: Jossy Sayir (Cambridge Univ.)
6. Pre-Conference Workshop, "Dynamic Spectrum Management in Cognitive Radio Networks", at ICT MobileSummit 2009, June 2009, Santander, Spain
Co-organizer: Jossy Sayir (Cambridge Univ.)
7. Channel Coding and Cooperation in Wireless Communications, at ICT MobileSummit 2009, June 2009, Santander, Spain
Co-organizer: Jossy Sayir (Cambridge Univ.)
8. Joint NEWCOM⁺⁺/COST2100 Workshop on Radio Resource Assignment for LTE, September 2009, Vienna, Austria
Co-organizer: Roberto Verdone (CNIT)
9. N⁺⁺/R2D2 ICUMT Workshop on Wireless and Optical Networks, International Conference on Ultra Modern Telecommunications (ICUMT-2009), October 12-14, 2009, Saint Petersburg, Russia
Organizer: Christos Verikoukis (CTTC)

2.1.2 Special Sessions

1. "Advances in Signal Processing for Cognitive Radios Newcom⁺⁺ Results", 6th Karlsruhe Workshop on Software Radio, March 3-4, 2010, Karlsruhe, Germany
Organizers: Hanna Bogucka and Adrian Kliks (PUT)
2. "Situation-Aware Communications", WCNC 2009, April 5-8, 2009, Budapest, Hungary
Organizers: Andrea Conti (CNIT), Jossy Sayir (FTW), Velio Tralli (CNIT)
3. Joint N⁺⁺/PASSENGER Special Session on Future Internet, 1st International Conference on Mobile Lightweight Wireless Systems, May 2009, Athens, Greece
4. "Flexible and Opportunistic Wireless Access - the NEWCOM ⁺⁺ Vision", CROWNCOM 2009, June 24, 2009, Hannover, Germany
Organizer: Hanna Bogucka (PUT)
5. "Modern Radio Access Technologies", 12th URSI Symposium, June 16 - 17, 2009, Warsaw, Poland.
Organizers: Hanna Bogucka and Adrian Kliks (PUT)
6. "ViCE-WiCom: The NEWCOM⁺⁺ Inspired Virtual Centre of Excellence in Wireless Communications", 12th URSI Symposium, June 16 - 17, 2009, Warsaw, Poland.
Organizer: Hanna Bogucka (PUT)
7. "Network Coding for Multimedia Streaming", IEEE International Conference on Multimedia and Expo (ICME 2009), June 28 – July 3, 2009, Cancun, Mexico.
Co-Organizer: Enrico Magli (CNIT)
8. Flexible Digital Radio (N⁺⁺), 12th EUROMICRO Digital System Design (DSD), August 27-29 2009, Patras, Greece.
Organizers: Dominique Noguét (CEA)
9. Signal Processing Techniques in Radio Localization and Positioning, EUSIPCO 2009, August 24-28, 2009, Glasgow, UK.
Organizers: Marco Luise (CNIT) and Erik Strom (Chalmers)
10. N⁺⁺/LOOP Special Session on Video Over WLAN, MobiMedia 2009- 5th International Mobile Multimedia Communications Conference, September 2009, London, United Kingdom
Organizers: Christos Verikoukis (CTTC)

2.2 Planned NEWCOM Conferences, Workshops and Special Sessions:

2.2.1 Workshops

1. Joint NEWCOM⁺⁺/COST2100 Workshop on "Radio Resource Assignment for LTE
Date|: September 30, 2009
Location: Vienna, Austria
Chair: Roberto Verdone
2. NEWCOM⁺⁺ Workshop in 2010 IEEE PIMRC
Date| : September 28, 2010
Location: Istanbul, Turkey
Chair: Erdal Panayirci, Hikmet Sari

2.2.2 Special Sessions

1. "Newcom⁺⁺ Special Session on Cognitive Radio" in European Wireless 2010 conference <http://www.ew2010.org/>.
Date: 12-15 April 2010
Location: Lucca Italy
Organisers: Lorenza Giupponi (CTTC), Jordi Perez-Romero (UPC)

1. Plenary talk: "Perpetual Motion Machines, the Cramer-Rao Bound and Localization of Cognitive Radios", in The Second International Workshop on Cognitive Radio, (CIP2010):
Date: 14-16 June 2010
Location: Elba Island, Tuscany, Italy
Speaker: Marco Luise

2. Special Session: "Flexible Digital Radio (N⁺⁺)" in the 13th EUROMICRO Digital System Design (DSD)
Date: August 2010
Location: Lille, France
Organizers: Dominique Noguét (WPRC)

3. Session on "Flexible baseband processing" in The SDR Forum 2010 European Reconfigurable Technologies Workshop
Date: June 23-25 2010
Location: Mainz, Germany
Organizers: Dominique Noguét (WPRC)

5. Special Session: "Physical Layer security special session in European Wireless 2010 conference <http://www.ew2010.org/>.
Date: 12-15 April 2010
Location: Lucca Italy
Organizers: M. Kobayashi and M. Debbah

6. Special Session: "Physical Layer Security", at the 21st Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2010)
Date: 26-30 September 2010
Location: Istanbul, Turkey
Kobayashi and M. Bloch

SECTION 3 – CONCLUSIONS

The activities foreseen for WPS1 seem to be increasing substantially in time after an initialization process in 2008. The work package is in good shape and the activities in the work package are going on the right tract. One of the main and important activities of the work package is the organization of special NEWCOM⁺⁺ Sessions at international conferences. All scientific work package leaders should encourage their groups to organize at least one special session in such international events highlighting their joint research results.

Finally note that the annual NEWCOM⁺⁺ Workshop was planned to take place during this year, but it was decided to shift it to the ICT Mobile Summit which will take place in June 2010 in Florence. At this event, NEWCOM⁺⁺ will hold both its workshop and Dissemination Day.