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Promotion & Dissemination report of TECNALIA experiment

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Abstract:

This report summarizes the Promotion and Dissemination efforts carried out by TECNALIA during its participation in the Open Call 1 (OC1) of CREW project.

Keywords: dissemination, conference

Executive Summary

This report summarizes the Promotion and dissemination effort carried out by TECNALIA during its participation in the OC1 of CREW project. This activity has consisted in:

- Two specific contributions to international conferences reporting the TECNALIA experiment and its results.
- A collaboration with other CREW partners in a jointly organized workshop at the Wireless Innovation Forum European conference (Brussels, Belgium, 27 June 2012)
- Demonstration of the experiment at the Dublin FIRE event (to be held 7-8 of May 2013)
- Other non-assessable promotion efforts at different research forums (e.g. technical presentations in both internal and external forums), and other publications related to the project

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1 Introduction

Although not a part of the core group of the CREW project, TECNALIA has carried out a significant effort of promotion of both its specific experiment and also the general activity of the project. This effort has consisted in the following actions.

2 Publications

Full reference	Conference	Place & date
A. Alonso, J. del Ser, S. Gil-López, "On the Performance Assessment of Heuristically-driven Linear Collaborative Spectrum Sensing within the FP7-ICT CREW Project"	Wireless Innovation Forum European Conference	Brussels, Belgium, 27 June 2012
J. Del Ser, A. Alonso, S. Gil-Lopez, M. Garay, U. Kretschmar, A. Astarloa, "On the Design of an Heuristically Optimized Multiband Spectrum Sensing Approach for Cognitive Radio Systems"	IEEE International Workshop on Computer-Aided Modelling Analysis and Design of Communication Links and Networks (CAMAD) - Poster	Barcelona, Spain, 17-19 September 2012

3 Workshops Participation

Full reference	Conference	Place & date
S. Bouckaert, I. Moerman, S. Pollin, A. Alonso, "CREW WinnComm tutorial"	Wireless Innovation Forum European Conference	Brussels, Belgium, 27 June 2012
A. Alonso, J. Del Ser, "Experiment showcase within CREW demonstration"	FIRE event	Dublin, Ireland, 6-8 May 2013

4 Other Dissemination

We have been working closely with Dr. Marja Matinmikko from VTT in the derivation and validation of an algorithmic solution for the optimum selection of different spectrum sensing schemes based on multiple criteria such as processing time, required probability of detection and availability of a priori information on the characteristics of the radio waveform. This topic is strongly related to our research in CREW, as in practice the envisaged method would need to be implemented in a hardware platform featuring similar characteristics and capabilities as those of the CREW platform. Also, the work in the CREW project inspired some of the underlying technical aspects of the derived solution, thus the project is acknowledged in the publication listed below.

Full reference	Journal	Date
M. Matinmikko, J. Del Ser, T. Rauma, M. Mustonen, "Fuzzy-logic based Framework for Spectrum Availability Assessment in Cognitive Radio Systems"	IEEE Journal on Selected Areas in Communications, under second review	25 March 2013