PHYDYAS Workshop detailed program

The advent of cognitive radio systems: impact of the physical layer

10h00 Opening of the workshop  Maurice Bellanger (CNAM)

Morning (10h05 - 12h45): Cognitive radio physical layer  Chairman: Markku Renfors (TUT)

- 10h05 Invited speaker: Multicarrier techniques for cognitive radio, Behrouz Farhang-Boroujeny (Univ.Utah)
- 10h45 Filter bank design for multicarrier transmission and spectrum sensing, Markku Renfors (TUT)
- 11h05 Data aided and blind synchronization, Mario Tanda (UNINA)
- 11h25 Coffee break
- 11h45 Equalization and optimization in FBMC, Jérome Louveaux (UCL)
- 12h05 MMSE equalization of FBMC systems with forward error correction, L.Baltar, D.Waldhauser, J.A.Nossek (TUM)
- 12h25 Channel estimation and tracking for MIMO – FBMC systems, L.Kofidis (RA-CTI)
- 12h45 End of morning session

Afternoon (14h15 - 17h45): Cognitive radio scenarios  Chairman: Josef Nossek (TUM)

- 14h15 Invited Speaker: Overview of Cognitive Radio, P. Mähönen and M. Petrova (RWTH-Aachen)
- 14h55 FBMC and Cognitive Radio, D. Le Ruyet, D.Roviras (CNAM)
- 15h15 Invited Speaker: Cognitive Radio in TV bands - 802.22, Monisha Ghosh (Philips-USA)
- 15h55 Coffee break
- 16h15 Dynamic spectrum allocation in uncoordinated cognitive radio networks based on adaptive antenna array interference mitigation diversity, A.Kuzminskyi (ALUK)
- 16h35 Cognitive radio scenario with cooperation between nodes, C.Bader, (CTTC)
- 16h55 Invited Speaker: Cognitive Radio Standardization objectives in FP7, R.Biswas and W.Koenig, EU/RAS-SEG
- 17h35 Open questions and discussion

17h45 Conclusion of the workshop, Maurice Bellanger (CNAM)