



**University of Pavia**

**Ph.D. School of Electrical and Electronics Engineering and Computer Science**

# **SEMINAR**

## **Spectrum sensing techniques in Cognitive Radio**

***Ahmed Masri***

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**May 9, 2018, 14:00-16:00**

**Aula E1**

**Abstract:** Spectrum sensing is a key function for Cognitive Radio (CR) technology. In this seminar, the main classes of spectrum sensing and other types of classifications will be explained. Moreover, the need for geographical database and its cons/pros will be discussed. Based on that, we will detail the sensing techniques that are used in IEEE 802.22 CR standard. Finally, we will formulate a well understanding on how we can go from detecting a primary user to detecting a spectrum opportunity.

**Bio:** Ahmed Masri was born in Nablus (Palestine) on July 10, 1984. He obtained his BS degree in computer engineering, from An-Najah National University in 2007. Then, at end of 2008, he graduated from the 2<sup>nd</sup> level specializing master "Wireless Systems and Related Technologies" from Politecnico di Torino with summa cum laude. Next in 2009, he started his PhD study in the Department of Electronics and Telecommunications at the Politecnico di Torino. During 2011, he was a visiting researcher at Aalto University in Finland as part of his PhD study. He obtained his PhD degree with thesis titled "Design and Performance Evaluation of Cognitive Radio Networks" in 2012. Starting from 2013, he is an assistant professor in the Telecommunication Engineering Department at An-Najah National University and he is the project leader for the Internet over TV band design and implementation project.

**Organizer**

**Prof. P. Gamba**

**Seminar in English**

**Ph.D. Coordinator**

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