



THE CHINESE UNIVERSITY OF HONG KONG
Institute of Network Coding
and
Department of Information Engineering
Seminar



Spectrum Sensing with Multiple Primary Powers

by

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Date : 4 September 2013 (Wednesday)

Time : 10:45 - 11:45 am

**Venue : Room 833, Ho Sin Hang Engineering Building
The Chinese University of Hong Kong**

Abstract

We consider a more practical cognitive radio (CR) scenario when the primary user (PU) transmits with multiple levels of power. The optimal spectrum sensing algorithm at the secondary user (SU) that could discriminate the PU's transmitting power is proposed and the corresponding performance is analyzed. Various related issues are also discussed and we hope to open a new research area in CR.

Biography

Feifei Gao is currently an Associate Professor with the Department of Automation, Tsinghua University, Beijing, China. He has authored/coauthored more than 120 refereed IEEE journal and conference proceeding papers. His research interests are communication theory, broadband wireless communications, signal processing, multiple-input-multiple-output systems, and array signal processing. Prof. Gao is now serving on the Editorial Board of IEEE Transactions on Wireless Communications and IEEE Wireless Communications Letters.

**** ALL ARE WELCOME ****

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