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Cognitive radios: from promise to reality

Abstract

Cognitive radios are considered a promised solution to the problem of spectrum scarcity. However, their deployment and vast use encounter technical and regulatory obstacles that are difficult to be overcome. During more than a decade of research on cognitive radios, different were used to tackle these problems. This talk will give a brief review of the state-of-art on the topic, present the different approaches put forward by researchers and regulatory agencies, and discuss about the research perspectives on cognitive radios.

Biographical Sketch

José F. de Rezende received the B.Sc. and M.Sc. degrees in Electronics Engineering from Universidade Federal do Rio de Janeiro (UFRJ) in 1988 and 1991, respectively. He received the Ph.D. degree in Computer Science from Université Pierre et Marie Curie in 1997, where he was an associate researcher during that year. Since 1998 he has been an associate professor at UFRJ. His research interests are in distributed multimedia applications, multipeer communication, high speed and mobile networks, and quality of service. He has served in the editorial board of Ad Hoc Networks from Elsevier since 2006.