

On Fair Coexistence of Wireless Networks via CSMA Based Transmission Algorithms

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## Abstract:

This talk will touch on wireless coexistence issues that arise due to higher spatial density of spectrum usage. We consider a fairness perspective for autonomous scheduling of transmissions by distinct sessions, subject to constraints that are represented by a conflict graph. The emphasis is on randomized backoff-based CSMA algorithms. The resulting transmission dynamics is represented by a Markovian model whose analysis suggests practical challenges in fair sharing of spectrum by distinct sessions that subscribe to a common standard, as well as by those that do not possess a common signaling protocol.

Venue: Seminar Room, Hamilton Institute, Rye Hall,

**NUI Maynooth** 

**Time**: 2.00 - 3.00pm (followed by tea/coffee)
Travel directions are available at www.hamilton.ie

