



香港中文大學  
The Chinese University of Hong Kong

Institute of Theoretical Computer Science and Communications

*ITCSC Seminar*

**Towards The Capacity Region of Two Receiver Broadcast Channels**

*By*

**Prof. Chandra Nair**

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*May 3, 2011, Tuesday*

*2:30pm – 3:30pm*

*Rm. 121, 1/F., Ho Sin Hang Engineering Building, CUHK*

**Abstract:**

Broadcast channel refers to a commonly occurring communication scenario where a single sender wishes to send (possibly different) messages to multiple receivers. This is one of the fundamental problems in network information theory, a generalization of Shannon's point-to-point information theory.

In this talk, I will talk about a collection of recent results that have been obtained over the last couple of years that made significant progress, both from an intuitive perspective as well as a theoretical perspective, on this long standing open problem. The talk will be self-contained, and the emphasis will be on the bigger picture of the results than the specific details of establishing them.

The collection of results is partly joint with my research collaborators: Yanlin Geng, Amin Gohari, Vincent Wang, and Yuanming Yu.

**\*\*\* ALL ARE WELCOME \*\*\***

Hosted & Enquiries : Institute of Theoretical Computer Science and Communications Tel: 2696 1257