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

INC

Properties of Network Polynomials

by

Dr. Javad B. Ebrahimi
Postdoctoral Fellow, Institute of Network Coding
The Chinese University of Hong Kong

Date   :   ~~18 June 2014 (Wednesday)~~ 19 June 2014 (Thursday)
Time   :   **11:00 am - 12:00 pm**
Venue :   **Room 833, Ho Sin Hang Engineering Building**
              The Chinese University of Hong Kong

Abstract

It is well known that transfer polynomials play an important role in the network code design problem. In this talk we provide a graph theoretical description of the terms of such polynomials. We consider acyclic networks with one or two receivers and min-cut h between each source-receiver pair. We show that the associated polynomial can be described in terms of certain subgraphs of the network.

Biography

Javad B. Ebrahimi is a post-doctoral fellow at the Institute of Network Coding, CUHK. He received his B.Sc. and M.Sc. degrees in Pure Mathematics from Sharif University (2004) of Technology and Simon Fraser University (2008), respectively. In 2013, he received a PhD degree in Communication and Computer Sciences from EPFL, Switzerland.

His research interest includes algebraic and combinatorial aspects of information theory, Network Coding and Graph Theory.

** ALL ARE WELCOME **

Host: Professor Raymond W.H. Yeung (Tel: 3943-8375, Email: whyeung@ie.cuhk.edu.hk)
Enquiries: Department of Information Engineering, CUHK (Tel.: 3943-8388)

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