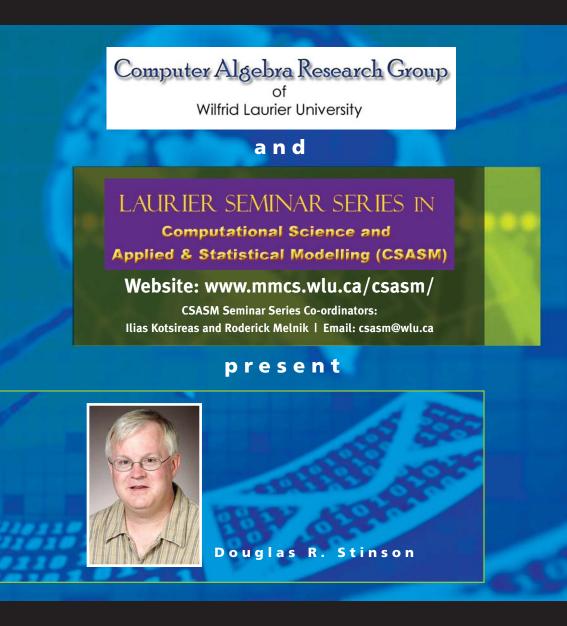
A WILFRID LAURIER UNIVERSITY CSASM/CARGO EVENT



In this talk, we discuss the use of combinatorial set systems (combinatorial designs) in the design of key predistribution schemes (KPS) for sensor networks.

We show that the performance of a KPS can be improved by carefully choosing a certain class of set systems as "key ring spaces." Especially, we analyze KPS based on a type of combinatorial design known as a transversal design. We employ two types of transversal designs, which are represented by the set of all linear polynomials and the set of quadratic polynomials (over some finite field), respectively. These KPS turn out to have significant efficiency in a shared-key discovery phase without degrading connectivity and resiliency.

Professor Douglas R. Stinson





Thursday, April 26, 2007

2:30 P.M. Room BA 210

(LOCATED IN THE BRICKER ACADEMIC BUILDING)

Wilfrid Laurier University, 75 University Avenue West, Waterloo

This event is hosted by the CARGO lab - www.cargo.wlu.ca and the CSASM seminar series - http://www.mmcs.wlu.ca/csasm/

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