



Collaborative Graduate Specialization in **Computational Science and Engineering**

WEEKLY COLLOQUIUM

Tuesday, 11 March 2008

2:30-3:30 in RM101, Jeffery Hall

Speaker: PROSENJIT BOSE, Professor
School of Computer Science, Carleton University

Title: How easily can we find our destination when we do not have a map?

Abstract: Computing a path between two vertices in a graph is a fundamental problem that has been widely studied in the literature within various contexts and settings. There are many different algorithms for computing such paths depending on the type of graph as well as the type of path one is searching for. In this talk, we review some recent results on what can be said about computing paths when the whole graph is not known but only local information (such as the vertices adjacent to the current position) is available. We outline what can and cannot be done based on the properties known about the underlying graph.

About the speaker:

Prosenjit Bose received his B.Math (1990) and M.Math (1991) in Computer Science and Combinatorics from the University of Waterloo. He completed his Ph.D. (1994) in Computer Science at McGill University, where he received the D.W. Ambridge Award as the outstanding Ph.D. graduate. He was an NSERC and Killam postdoctoral fellow at the University of British Columbia (1995-1996). Currently, he is a full professor in the School of Computer Science at Carleton University. In 2005, he won a Premier's Research Excellence Award from the Ontario Government's Ministry of Research and Innovation. His main research area is Computational Geometry. He has published over 200 conference and journal articles in this area.