



Collaborative Graduate Specialization in Computational Science and Engineering

WEEKLY COLLOQUIUM

Tuesday, 18 March 2008

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

Speaker: DONGMEI CHEN
Assistant Professor, Department of Geography
Queen's University

Title: Issues and challenges in GeoComputation

Abstract: Geocomputation represents a new attempt to move the research agenda to spatial/geographical data analysis and modeling in the last decade. It explores the middle ground from the doubly-informed perspective of geography and computer science. This presentation will talk about the historical development of Geography, GIS, and Geocomputation. The focus will be on five key fields that drive Geocomputation development, including computer architecture and design, pattern recognition and classification, dynamic simulation, data mining, and visualization. The current problems and challenges will be discussed. Several examples will be used to highlight these challenges.

About the speaker:

DongMei Chen received her B.A. in geography from Peking University, a master in GIS and remote sensing application from the Institute of Remote Sensing Application at the Chinese Academic of Science and, in 2001, she received her Ph.D. in geography from the joint doctoral program of San Diego State University and University of California at Santa Barbara. She worked at the Environment System Research Institute as a GIS product specialist for two years before coming to Queen's University in 2002. Her research interests include GIS, remote sensing, and spatial modeling. She has published over 30 conference and journal articles on these areas.