



# Seminar Series

## 2008—2009

**FACULTY OF  
COMPUTER  
SCIENCE**

Wednesday  
October 22nd, 2008

3:35pm

Information  
Technology Center  
Room—C-317

[www.cs.unb.ca](http://www.cs.unb.ca)

### Knowledge Grid Research in China

By

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China Knowledge Research Group has been pursuing the ideal of Knowledge Grid since the year 2001. Main achievement so far includes the following aspects:

- (1) Resource Space Model ---- The semantic data model for organizing various resources by normalized classification semantics to support efficient resource management and retrieval services.
- (2) Semantic Link Network ---- A self-organized semantic data model by using semantic links to organize various resources to support relational query and reasoning. It is a loosely coupled semantic data model based on an algebra model and the approaches to discovering emerging semantic communities and relations. The Resource Space Model, Semantic Link Network, database and Web languages can be integrated to form a powerful semantic platform for intelligent Web applications.
- (3) Knowledge Flow Network ---- A self-organized dynamic knowledge sharing process model.
- (4) Decentralized Semantic Overlay ---- A peer-to-peer index overlay to support decentralized storage and intelligent applications. This talk will focus on the first and the second aspects.

**STUDENTS ARE ENCOURAGED TO ATTEND**