



*Faculty of Computer Science
2005-2006 Seminar Series*

*Autonomic Risk Management Framework
For Critical Infrastructure Protection*

By
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*Wednesday, April 6th, 2005
3:30pm
ITC317*

The CRC/CFI Laboratory that will support my upcoming research at UNB aims to develop an adaptive risk management framework capable to prevent, identify and respond in critical time to threats, with focus on protecting critical infrastructure (e.g. public utilities) which vitally depends on network and information security. As a solution we propose a holonic Cybersecurity system that unfolds into an emergency response management infrastructure capable to react in due time to unknown and new kinds of attacks/threats. By fulfilling all the features required by the autonomic computing paradigm, the system can adapt to the changing environment through its self-organizing capability. Mimicking the way immunity works in biological organisms the system can dynamically adapt to and can dynamically create and learn new risk models as it encounters new risk situations. Recent implementation results on an emergency response management case study validate the concept.

STUDENTS ARE ENCOURAGED TO ATTEND
