



Computer Science  
UNIVERSITY OF TORONTO

# 2013 RESEARCH IN ACTION SHOWCASE

PRESENTED BY: The Department of Computer Science at the University of Toronto

**Wednesday, April 17**

1:00 p.m. to 5:00 p.m.

The Royal Conservatory of Music

Leslie and Anna Dan Galleria, 273 Bloor Street West

PRE-REGISTER by April 12, 2013 at

[www.cs.toronto.edu/ria/registration](http://www.cs.toronto.edu/ria/registration) or (416) 978-3619.

On-site registration will be available on April 17.

IN PARTNERSHIP WITH



NSERC  
CRSNG



BlackBerry

## JOIN US FOR RIA AT THE ROYAL CONSERVATORY OF MUSIC ON APRIL 17!

### FEATURING THESE PROJECTS AND MORE:

- Empathetic Social Choice on Social Networks
- Technologies for Aging Gracefully Lab (TAGLab)
- Bursty Subgraphs in Social Networks
- Interactive Exploration of Faceted Information Spaces
- PCB+Tree: A Cache-Friendly B+Tree for Variable-Length Keys
- Designing Casual Video Games
- Tentative: Next Generation Wireless Networking Infrastructure
- Accelerating the Cloud with Heterogeneous Computing
- Image Segmentation with Compositional High Order Constraints
- Gamifying Collaborative Decision Making
- A Novel Structurally Regularized Multi-Task Lasso Model for Phenotype Prediction
- Smarter Home Networks with Simple Gateways
- VMM-Based Cloud Analytics with Real-Time Memory Introspection
- Panelrama: A Distributed UI Framework for Multiple Devices
- Distinguishing Automatic from Human-Written Summaries by Information Content
- Acoustic Modeling Using Deep Convolutional Neural Networks
- Conductor: Managing Applications in a Multi Device Environment
- Personal Information Scraps: Recording our Interactions with Technology to Promote Tracking & Health
- Designing Pen Interfaces that Adapt to Device Capabilities
- Parallel Implementation on GPUs of an ADI Method for Solving Coupled Parabolic PDEs from Finance
- A Parallel Non-Linear Iterative Reconstruction Algorithm for X-Ray Computerized Tomography
- MarkUs
- Incorporating Service Learning in Introductory Software Engineering
- Multi-Dimensional Single-Peakedness and its Approximations
- Automated Classification of Primary Progressive Aphasia Subtypes from Narrative Speech Samples
- Encryption Systems Enabling Fine-Grained Access Control to the Data

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For descriptions of the projects and project teams, go to [www.cs.toronto.edu/ria](http://www.cs.toronto.edu/ria)  
Department of Computer Science, University of Toronto  
10 King's College Road, Room 3302, Toronto, Ontario M5S 3G4

