



Computer Science
UNIVERSITY OF TORONTO

2012

RESEARCH IN ACTION

Presented by: The Department of Computer Science at the University of Toronto

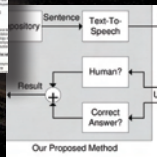
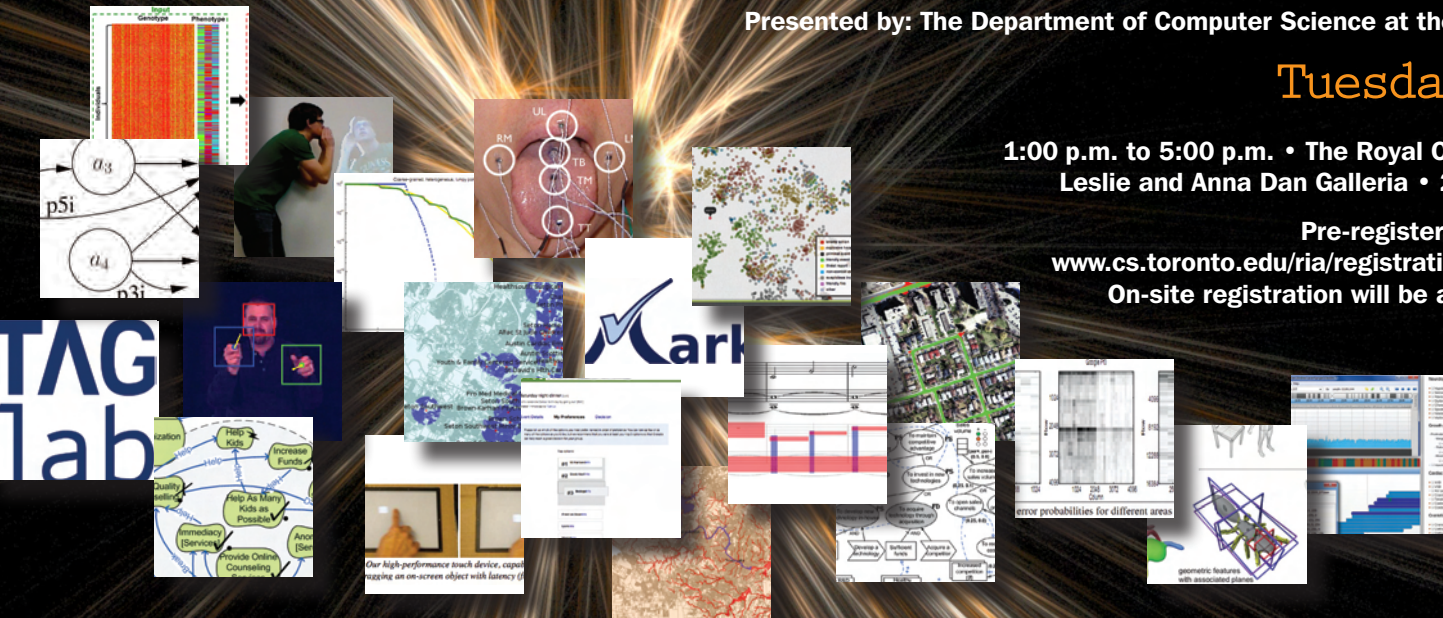
Tuesday, March 27

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 March 19, 2012 at
www.cs.toronto.edu/ria/registration or (416) 978-3619.

On-site registration will be available on March 27.

In partnership with





JOIN US FOR RIA AT THE ROYAL CONSERVATORY OF MUSIC ON MARCH 27!

FEATURING THESE PROJECTS AND MORE:

- Monitoring the Execution of Partial-Order Plans via Regression
- Business Intelligence Modeling and Reasoning
- Iterative, Interactive Analysis of Agent-Goal Models for Early Requirements Engineering
- TAGLab - Technologies for Aging Gracefully Lab
- Repeat After Me "I am a Human": Verifying Human Users in Speech-Based Interactions
- Automatic Real-Time Music Generation
- Leaksplorer - Interactive Visualization of Large Document Collections
- Jettison: Efficient Idle Desktop Consolidation with Partial VM Migration
- BibBase and Linked Open Data on the Web
- Exploring Contextual Complexities of Agile Adoption
- Approximations to Loss Probabilities of Credit Portfolios
- Improv Remix
- Learning to Control with Recurrent Neural Networks
- Experimentation with a 1ms Latency Direct-Touch Device
- Speeding Up Spatial Database Query Execution using GPUs
- Eliciting Reward Functions for Sequential Decision Making
- Towards Better and Faster Diagnostics of Genetic Diseases
- Understanding the Nature of DRAM Errors and the Implications for System Design
- Group Decision Making and Elicitation with Partial Preferences
- Weakly Submodular Maximization over a Matroid
- Slices: A Shape-proxy Based on Planar Sections
- Learning Mixed Acoustic/Articulatory Models for Disabled Speech
- MarkUs
- A Computational Study of Late Talking in Word-Meaning Acquisition
- Adapting Acoustic and Lexical Models to Dysarthric Speech
- Detecting Reduplication in Videos of American Sign Language
- HOP Context
- Who's Flying this Ship? Systems Thinking for Planet Earth
- Machine Learning for Aerial Image Interpretation
- JBASE: Joint Bayesian Analysis of Sub-phenotypes and Epistasis
- Equivalence of Memory Consistency Models with Relaxed Program Order
- Parameter Determination in Mathematical Modelling by ODEs
- Generalized Median Mechanisms for Group Decision Making in Multi-dimensional Settings
- Preferences, Learning and Matching: Algorithmic Models for Academic and Marital Bliss
- Unsupervised Feature Learning using Higher-Order Neural Networks
- Speech Retrieval Engine
- Opportunity Cost in Bayesian Optimization
- Modeling, Customizing, and Optimizing Business Processes
- Encryption Systems for the Modern World
- Using Gestures and Speech for K-2 Education
- Protecting Kernel Integrity from Untrusted Extensions Using Dynamic Binary Instrumentation
- Fast Large-Scale Similarity Search by Multi-Index Hashing on Binary Codes
- Recon: Declarative Invariants for Runtime Consistency Checking

For descriptions of the projects and project teams, go to www.cs.toronto.edu/ria
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