2010 International Conference on Active Media Technology
2010 International Conference on Brain Informatics

Final Program

York University, Toronto, Canada

http://www.wici-lab.org/amtbi10/

Co-organized by:
Web Intelligence Consortium (WIC)
IEEE Task Force on Brain Informatics (IEEE TF-BI)

Conference Sponsors

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Web Intelligence Consortium (WIC)

IEEE Computational Intelligence Society

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Springer Lecture Notes in Computer Science

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Message from the Conference and Program Chairs

We are pleased to give you a warm welcome to the 2010 International Joint Conference on Active Media Technology and Brain Informatics (AMT 2010 and BI 2010). On behalf of the AMT 2010 and BI 2010 Conference Committees, we would like to thank you for your participation and we do hope that you will enjoy the conference technical and social programs.

The AMT 2010 and BI 2010 conferences are organized by Web Intelligence Consortium (WIC) and IEEE Computational Intelligence Society Task Force on Brain Informatics (IEEE TF-BI).

Over the past years, Active Media Technology (AMT) and its applications have engulfed our daily lives, enhancing connectivity and interactivity in ways never imaginable; today's examples include Facebook, Twitter, and Google Latitude. At the same time, AMT applications have redefined how business is being conducted by empowering consumer engagement and participation (e.g., ParkatmyHouse.com). Advertisers are tapping into social networks to create new business opportunities (e.g., social media marketing). Intelligent electric grids are enabling better energy-efficient distribution and storage, while fighting climate change (e.g., ecotricity.com and eco-metering).

AMT 2010 marked the sixth of the AMT series since its debut conference at Hong Kong Baptist University in 2001 (followed by AMT 2004 in Chongqing, China, AMT 2005 in Kagawa, Japan, and AMT 2006 in Brisbane, Australia, 2009 In Beijing, China). All these have once again confirmed our vision back in 2001 to capture and document the evolution unfolding in our digital era. AMT 2010 continued to be a shared forum for researchers and practitioners from diverse fields, such as computer science, information technology, artificial intelligence, Web intelligence, cognitive science, conversational informatics, media engineering, economics, data mining, data and knowledge engineering, intelligent agent technology, human computer interaction, complex systems and systems science. It offered new insights into the main research challenges and development of AMT by revealing the interplay between the studies of human informatics and the research of informatics on the Web/Internet, mobile and wireless centric intelligent information processing systems.

Brain Informatics (BI) has emerged as an interdisciplinary research field that focuses on studying the mechanisms underlying the human information processing system (HIPS). It investigates the essential functions of the brain, ranging from perception to thinking, and encompassing such areas as multi-perception, attention, memory, language, computation, heuristic search, reasoning, planning, decision-making, problem-solving, learning, discovery, and creativity. The goal of BI is to develop and demonstrate a systematic approach to achieving an integrated understanding of both macroscopic and microscopic level working principles of the brain, by means of experimental, computational, and cognitive neuroscience studies, as well as utilizing advanced Web Intelligence (WI) centric information technologies. BI represents a potentially revolutionary shift in the way that research is undertaken. It attempts to capture new forms of collaborative and interdisciplinary work. In this vision, new kinds of BI methods and global research communities will emerge, through infrastructure on the wisdom Web and knowledge grids that enables high speed and distributed, large-scale analysis and computations, and radically new ways of sharing data/knowledge.

BI 2009 was the first conference specifically dedicated to the interdisciplinary research in Brain Informatics. It provided an international forum to bring together researchers and practitioners from diverse fields, such as computer science, information technology, artificial intelligence, Web intelligence, cognitive science, neuroscience, medical science, life science, economics, data mining, data science and knowledge science, intelligent agent technology, human computer interaction, complex systems, and systems science, to present the state-of-the-art in the development of Brain Informatics, to explore the main research problems in BI that lie in the interplay between the studies of human brain and the research of informatics. On the one hand, one models and characterizes the functions of the human brain based on the notions of information processing systems. WI centric information technologies are applied to support brain science studies. For instance, the wisdom Web, knowledge grids, and cloud computing enable high-speed, large-scale analysis, simulation, and computation as well as new ways of sharing research data and scientific discoveries. On the other hand, informatics-enabled brain studies, e.g., based on fMRI, EEG, and MEG, significantly broaden the spectrum of theories and models of brain sciences and offer new insights into the development of human-level intelligence towards brain-inspired wisdom Web computing.

We wish to express our gratitude to all members of the Conference Committee for their instrumental and unfailing support. AMT 2010 and BI 2010 has a very exciting program with a number of features, ranging from keynote talks, special sessions, technical sessions, posters, workshop, and social programs. All of this work would not have been possible without the generous dedication of the Program Committee members and the external reviewers in reviewing the papers submitted to AMT 2010 and BI 2010, of our keynote speakers, Ben Shneiderman from University of Maryland, Vinod Goel from York University, Yingxu Wang from University of Calgary, Jianhua Ma from Hosei University. AMT 2010 and BI 2010 could not have taken

place without the great team effort of the Local Organizing Committee and the support of the International WIC Institute, and York University.

Our special thanks go to Tetsuya Yoshida and Yue Xu for organizing a special session on text analysis and utilization, and to Hanmin Jung, Li Chen and Sung-Pil Choi for organizing a special session on technology intelligence. We are grateful to the chairs and members of the organizing committee for their significant contribution to the organization of the conference. In particular, we would like to acknowledge the generous help received from Ning Zhong, Jimmy Huang, Vivian Hu, Jessie Zhao, Jun Miao, Ellis Lau and Heather Bai. Our appreciation also goes to Juzhen Dong for her excellent technical support of the AMT 2010 conference management system and its web sites. Last but not the least, we thank Alfred Hofmann and Anna Kramer of Springer for their help in coordinating the publication of this special volume in an emerging and interdisciplinary research area. We appreciate the support and sponsorship from York University and the University of Regina.

Sheila Petty and **Runhe Huang**
AMT 2010 Conference General Chairs

Aijun An and **Pawan Lingras**
AMT 2010 Program Chairs

Tomaso Poggio and **Jiming Liu**
BI 2010 Conference General Chairs

Yiyu Yao and **Ron Sun**
BI 2010 Program Chairs

AMT'10 / BI'10 Program AT A GLANCE

On-site Registration August 28-29, 08:15-18:00 [Lobby]

Saturday August 28, 2010

09:10-9:30 **Conference Opening** [TEL 0001]

09:30-10:30 **Keynote Talk** [TEL 0001] Chair: Aijun An

Technology-Mediated Social Participation: Deep Science and Extreme Technology, Ben Shneiderman

10:30-10:50 **Coffee break**

10:50-11:50 **Keynote Talk** [TEL 0001] Chair: Pawan Lingras

Fractionating the Rational Brain, Vinod Goel

11:50 - 13:20 **Lunch**

13:20 - 14:50	**BI Session - B1** [TEL 0005] ***Brain Data Analysis and Data Brain I*** Chair:	**AMT Session - A1** [TEL 0006] ***Special session on Text Analysis and Utilization (TAU)*** Chairs: **Tetsuya Yoshida and Yue Xu**	**AMT Session - A2** [TEL 0007] ***Data Mining, Ontology Mining and Web Reasoning*** Chair:
14:50-15:00 **Short break**			
15:00 - 16:30	**BI Session - B2** [TEL 0005] ***Brain Data Analysis and Data Brain II*** Chair:	**AMT Session - A3** [TEL 0006] ***Entertainment and Social Applications of Active Media*** Chair:	**AMT Session - A4** [TEL 0007] ***AMT for Semantic Web and Web 2.0*** Chair:
16:30-16:50 **Coffee break**			
16:50 - 18:20	**BI Session - B3** [TEL 0005] ***Neuronal Modeling and Brain Modeling*** Chair:	**AMT Session - A5** [TEL 0006] ***Special session on Technology Intelligence*** Chair: Hanmin Jung	**AMT Session - A6** [TEL 0007] ***Web Based Social Networks*** Chair:

19:00-21:00 **Conference Reception** [Lobby]

Sunday August 29,, 2010

09:30-10:30 **Keynote Talk** [TEL 0001] Chair: Jiming Liu

Cognitive Informatics and Denotational Mathematical Means for Brain Informatics, Yingxu Wang

10:30-10:50 **Coffee Break**

10:50-11:50 **Keynote Talk** [TEL 0001] Chair: Sheila Petty

Active Smart u-Things and Cyber Individuals, Jianhua Ma

11:50 - 13:20 **Lunch**

13:20 - 14:50	**BI Session - B4** [TEL 0005] ***WICI Perspectives on Brain Informatics I*** Chair: Ning Zhong	**AMT Session - A7** [TEL 0006] ***Adaptive Web Systems and Information Retrieval*** Chair: Yue Xu	**AMT Session - A8** [TEL 0007] ***Active Computer Systems and Intelligent Interfaces*** Chair:
14:50-15:10 **Coffee Break**			
15:10 - 16:40	**BI Session - B5** [TEL 0005] ***WICI Perspectives on Brain Informatics II*** Chair: Ning Zhong	**AMT Session - A9** [TEL 0006] **Evaluation of Active Media and AMT Based Systems** Chair:	**AMT Session - A10** [TEL 0007] (Two sessions) ***Multi-Agent Systems*** Chair: **Semantic Computing for Active Media and AMT Based Systems** Chair:

18:00 - 21:00 Conference Banquet

Monday August 30, 2010

09:00 - 11:00	**BI Session - B6** [TEL 0005] ***Cognition-inspired Applications I*** Chair:	**BI Session - B7** [TEL 0006] ***Cognitive Computing and Learning*** Chair:	**AMT Session - A11** [TEL 0007] ***Web Mining, Wisdom Web and Web Intelligence*** Chair:
11:00-11:20 **Coffee Break**			
11:20 - 13:20	**BI Session - B8** [TEL 0005] ***Cognition-inspired Applications II*** Chair:	**BI Session - B9** [TEL 0006] ***Cognitive Modeling and Information Processing*** Chair:	**AMT Session - A12** [TEL 0007] ***Machine Learning and Human-Centered Robotics*** Chair:

AMT'10/BI'10 Program

Saturday, August 28, 2010

On-site Registration

Time: August 28-29, 08:15-18:00
Location: Lobby

Conference Opening (09:10-09:30)

Location: TEL 0001
Welcome:
Program Introduction:

Keynote Talk (August 28, 09:30 - 10:30)

Chair: Aijun An
Location: TEL 0001
Title: Technology-Mediated Social Participation: Deep Science and Extreme Technology
Speaker: Ben Shneiderman

Coffee break (10:30 - 10:50)

Keynote Talk (August 28, 10:50 - 11:50)

Chair: Pawan Lingras
Location: TEL 0001
Title: Fractionating the Rational Brain
Speaker: Vinod Goel

Lunch (11:50 - 13:20)

BI Session - B1 (August 28, 13:20 - 14:50)

Brain Data Analysis and Data Brain I
Chair:
Location: TEL 0005

- The Effect of the Normalization Strategy on Voxel-Based Analysis of DTI Images: A Pattern Recognition Based Assessment, Gloria Diaz, Gonzalo Pajares, Eduardo Romero, Juan Alvarez-Linera, Eva Lopez, Juan Antonio Hernandez-Tamames and Norberto Malpica (B240)
- Single Trial Classification of EEG and Peripheral Physiological Signals for Recognition of Emotions Induced by Music Videos, Sander Koelstra, Ashkan Yazdani, Mohammad Soleymani, Christian Muhl, Jong-Seok Lee, Anton Nijholt, Thierry Pun, Touradj Ebrahimi and Ioannis Patras (B227)
- Brain Signal Recognition and Conversion Towards Symbiosis with Ambulatory Humanoids, Yasuo Matsuyama, Keita Noguchi, Takashi Hatakeyama, Nimiko Ochiai and Tatsuro Hori (B207)
- Recurrence Plots for Identifying Memory Components in Single-trial EEGs, Nasibeh Talebi and Ali Motie Nasrabadi (B213)

AMT Session - A1 (August 28, 13:20 - 14:50)

Special session on Text Analysis and Utilization (TAU)
Chairs: Tetsuya Yoshida
Location: TEL 0006

- Performance Evaluation of Constraints in Graph-based Semi-Supervised Clustering, Tetsuya Yoshida
- Recommendation of Little Known Good Travel Destinations using Word-of-mouth Information on the Web, Kuzou Ohara, Yu Fujimoto, and Tomofumi Shiina
- Exploring Social Annotation Tags to Enhance Information Retrieval Performance, Zheng Ye, Xiangji Jimmy Huang, Song Jin, and Hongfei Lin

AMT Session - A2 (August 28, 13:20 - 14:50)

Data Mining, Ontology Mining and Web Reasoning
Chair:
Location: TEL 0007

- Multiagent based Large Data Clustering Scheme for Data Mining Applications, T. Ravindra Babu, M. Narasimha Murty and S.V. Subrahmanya
- Fractal Based Video Shot Cut/Fade Detection and Classification, Zeinab Zeinalpour-Tabrizi, Amir Farid Aminian-Modarres, Mahmood Fathy, and Mohammad Reza Jahed-Motlagh
- A Semantic Web Services Discovery Algorithm Based on QoS Ontology, Baocai Yin, Huirong Yang, Pengbin Fu, and Xiaobo Chen

Short break (14:50 - 15:00)

BI Session - B2 (August 28, 15:00 - 16:30)

Brain Data Analysis and Data Brain II
Chair:
Location: TEL 0005

- Feature Rating by Random Subspaces for Functional Brain Mapping, Diego Sona and Paolo Avesani (B235)
- Improving Individual Identification in Security Check with an EEG based Biometric Solution, Qinlin Zhao, Hong Peng, Bin Hu, Quanying Liu, Li Liu, Yanbing Qi and Lanlan Li (B219)
- A Study of Mozart Effect on Arousal, Mood, and Attentional Blink, Chen Xie, Lun Zhao, Duoqian Miao, Deng Wang, Zhihua Wei and Hongyun Zhang (B228)

AMT Session - A3 (August 28, 15:00 - 16:30)

Entertainment and Social Applications of Active Media
Chair:
Location: TEL 0006

- The Influence of Ubiquity on Screen-Based Interfaces, Sheila Petty and Luigi Benedicenti
- Perception of Parameter Variations in Linear Fractal Images, Daryl H. Hepting and Leila Latifi
- Music Information Retrieval with Temporal Features and Timbre, Angelina A. Tzacheva and Keith J. Bell
- Assessing End-user Programming for a Graphics Development Environment, Lizao Fang and Daryl H. Hepting
- Visual Image Browsing and Exploration (Vibe): User Evaluations of Image Search Tasks, Grant Strong, Orland Hoeber, and Minglun Gong

AMT Session - A4 (August 28, 15:00 - 16:30)

AMT for Semantic Web and Web 2.0
Chair:
Location: TEL 0006

- A Spatio-temporal Framework for Related Topic Search in Micro-blogging, Shuangyong Song, Qiudan Li, and Nan Zheng
- Exploiting Semantic Hierarchies for Flickr Group, Dongyuan Lu and Qiudan Li
- Understanding a Celebrity with His Salient Events, Shuangyong Song, Qiudan Li, and Nan Zheng
- User Interests: Denition, Vocabulary, and Utilization in Unifying Search and Reasoning, Yi Zeng, Yan Wang, Zhisheng Huang, Danica Damljanovic, Ning Zhong, Cong Wang

Coffee break (16:30 - 16:50)

BI Session - B3 (August 28, 16:50 - 18:20)

Neuronal Modeling and Brain Modeling

Chair:
Location: TEL 0005

- Segmentation of 3D Brain Structures Using the Bayesian Generalized Fast Marching Method, Mohamed Baghdadi, Nacera Benamrane and Lakhdar Sais (B239)
- Domain-Specific Modeling as a Pragmatic Approach to Neuronal Model Descriptions, Ralf Ansorg and Lars Schwabe (B211)
- Guessing What's on Your Mind: Using the N400 in Brain Computer Interfaces, Marijn van Vliet, Christian Muhl, Boris Reuderink and Mannes Poel (B215)
- A Brain Data Integration Model Based on Multiple Ontology and Semantic Similarity, Li Xue, Yun Xiong and Yangyong Zhu (B214)

AMT Session - A5 (August 28, 16:50 - 18:20)

Special session on Technology Intelligence
Chair: Hanmin Jung
Location: TEL 0007

- Extracting Concerns and Reports on Crimes in Blogs, Yusuke Abe, Takehito Utsuro, Yasuhide Kawada, Tomohiro Fukuhara, Noriko Kando, Masaharu Yoshioka, Hiroshi Nakagawa, Yoji Kiyota, and Masatoshi Tsuchiya
- Ontology Matching Method for Efficient Metadata Integration, Pyung Kim, Dongmin Seo, Mikyoung Lee, Seungwoo Lee, Hanmin Jung, and Won-Kyung Sung
- Extracting protein sub-cellular localizations from literature, Hong-Woo Chun, Jin-Dong Kim, Yun-Soo Choi, and Won-Kyung Sung
- Natural Language Query Processing for Life Science Knowledge, Jin-Dong Kim, Yasunori Yamamoto, Atsuko Yamaguchi, Mitsuteru Nakao, Kenta Oouchida, Hong-Woo Chun, and Toshihisa Takagi

AMT Session - A6 (August 28, 16:50 - 18:20)

Web Based Social Networks

- Contextual Recommendation of Social Updates, a Tag-based Framework, Adrien Joly, Pierre Maret, and Johann Daigremont
- Semantic Web Portal: A Platform for Better Browsing and Visualizing Semantic Data, Ying Ding, Yuyin Sun, Bin Chen, Katy Borner, Li Ding, David Wild, Melanie Wu, Dominic DiFranzo, Alvaro Graves Fuenzalida, Daifeng Li, Stasa Milojevic, ShanShan Chen, Madhuvanthi Sankaranarayanan, Ioan Toma
- NicoScene: Video Scene Search by Keywords based on Social Annotation, Tahara Tahara, Atsushi Tago, Hiroyuki Nakagawa, and Akihiko Ohsuga
- Social Relation Based Search Refinement: Let Your Friends Help You!, Xu Ren, Yi Zeng, Yulin Qin, Ning Zhong, Zhisheng Huang, Yan Wang, Cong Wang

Conference Reception (19:00 - 21:00)

Sunday, August 29, 2010

Keynote Talk (August 29, 09:30 - 10:30)

Chair: Jiming Liu
Location: TEL 0001
Title: Cognitive Informatics and Denotational Mathematical Means for Brain Informatics
Speaker: Yingxu Wang

Coffee break (10:30 - 10:50)

Keynote Talk (August 28, 10:50 - 11:50)

Chair: Sheila Petty
Location: TEL 0001
Title: Active Smart u-Things and Cyber Individuals
Speaker: Jianhua Ma

Lunch (11:50 - 13:20)

BI Session - B4 (August 29, 13:20 - 14:50)

WICI Perspectives on Brain Informatics I
Chair: Ning Zhong
Location: TEL 0005

- Interaction Between Visual Attention and Goal Control for Speeding up Human Heuristic Search, Rifeng Wang, Jie Xiang and Ning Zhong (B222)
- The Role of the Parahippocampal Cortex in Memory Encoding and Retrieval: An fMRI Study, Mi Li, Shengfu Lu, Jiaojiao Li and Ning Zhong (B217)
- Brain Activation and Deactivation in Human Inductive Reasoning: An fMRI Study, Peipeng Liang, Yang Mei, Xiuqin Jia, Yanhui Yang, Shengfu Lu, Ning Zhong and Kuncheng Li (B248)
- Clustering of fMRI Data Using Affinity Propagation, Dazhong Liu, Wanxuan Lu, and Ning Zhong (B218)

AMT Session - A7 (August 29, August 29, 13:20 - 14:50)

Adaptive Web Systems and Information Retrieval
Chair: Yue Xu
Location: TEL 0006

- Folksonomy-Based Ontological User Interest Profile Modeling and Its Application in Personalized Search, Xiaogang Han, Zhiqi Shen, Chunyan Miao, and Xudong Luo
- Visualizing Threaded Conversation Networks: Mining Message Boards and Email Lists for Actionable Insights, Derek L. Hansen, Ben Shneiderman, and Marc Smith
- A Hybrid Chinese Information Retrieval Model, Zhihan Li, Yue Xu, and Shlomo Geva
- Term Frequency Quantization for Compressing an Inverted Index, Lei Zheng and Ingemar J. Cox

AMT Session - A8 (August 29, August 29, 13:20 - 14:50)

Active Computer Systems and Intelligent Interfaces
Chair:
Location: TEL 0007

- Interactive Visualization System for DES, Mohamed S. Asseisah, Hatem M. Bahig, and Sameh S. Daoud
- Intelligent Implicit Interface for Wearable Items Suggestion, Aasim Khan, Muhammad Aslam, and A. M. Martinez-Enriquez
- Implementation of an Intelligent Product Recommender System in an e-Store, Seyed Ali Bahrainian, Seyed Mohammad Bahrainian, Meytham Salarinasab, and Andreas Dengel
- Enhanced Intra Coding of H.264/AVC Advanced Video Coding Standard with Adaptive Number of Modes, Mohammed Golam Sarwer and Q. M. Jonathan Wu

Coffee break (14:50 - 15:10)

BI Session - B5 (August 29, 15:10 - 16:40)

WICI Perspectives on Brain Informatics II
Chair: Ning Zhong
Location: TEL 0005

- Towards Systematic Human Brain Data Management Using a Data-Brain Based GLS-BI System, Jianhui Chen, Ning Zhong and Runhe Huang (B230)
- The Role of Posterior Parietal Cortex in Problem Representation, Jie Xiang, Yulin Qin, Junjie Chen, Haiyan Zhou, Kuncheng Li and Ning Zhong (B238)
- Basic Level Advantage and Its Switching during Information Retrieval: An fMRI Study, Haiyan Zhou, Jieyu Liu, Wei Jing, Yulin Qin, Shengfu Lu, Yiyu Yao and Ning Zhong (B256)

AMT Session - A9 (August 29, 15:10 - 16:40)

Evaluation of Active Media and AMT Based Systems
Chair:
Location: TEL 0006

- Investigating Perceptions of a Location-Based Annotation System, Huynh Nhu Hop Quach, Khasfariyati Razikin, Dion Hoe-Lian Goh, Thi Nhu Quynh Kim, Tan Phat Pham, Yin-Leng Theng, Ee-Peng Lim, Chew Hung Chang, Kalyani Chatterjea, and Aixin Sun
- Apollon13: A Training System for Emergency Situations in a Piano Performance, Yuki Yokoyama and Kazushi Nishimoto
- Modeling User Knowledge from Queries: Introducing a Metric for Knowledge, Frans van der Sluis and Egon L. van den Broek

AMT Session - A10 (August 29, 15:10 - 16:40) (Note: There are two short sessions in this time slot)

Multi-Agent Systems
Chair:
Location: TEL 0007

- Building Users Profiles from Clustering Resources in Collaborative Tagging Systems, Maya Rupert and Salima Hassas
- Some Optimizations in Maximal Clique based Distributed Coalition Formation for Collaborative Multi-Agent Systems, Predrag T. Tosic and Naveen K. R. Ginne

Continued in the same room

Semantic Computing for Active Media and AMT Based Systems
Chair:
Location: TEL 0007

- Enhancing Content-Based Image Retrieval Using Machine Learning Techniques, Qinmin Vivian Hu, Zheng Ye, and Xiangji Jimmy Huang
- Computer-Assisted Interviewing with Active Questionnaires, Seon-Ah Jang, Jae-Gun Yang, and Jae-Hak J. Bae

Conference Banquet (18:00 - 21:00)

Location:

Monday, August 30, 2010

BI Session - B6 (August 30, 09:00 - 11:00)

Cognition-inspired Applications
Chair:
Location: TEL 0005

- Modelling Caregiving Interactions During Stress, Azizi Ab Aziz, Jan Treur, and C. Natalie van der Wal (B254)
- A Time Series Based Method for Analyzing and Predicting Personalized Medical Data, Vivian Hu, Jimmy Huang, William Melek and C. Joseph Kurian (B251)
- Language Analytics for Assessing Brain Health: Cognitive Impairment, Depression and Pre-Symptomatic Alzheimer's Disease, William L. Jarrold, Bart Peintner, Eric Yeh, Ruth Krasnow, Harold S. Javitz and Gary D. Swan (B246)
- Data Fusion and Feature Selection for Alzheimer's Diagnosis, Blake Lemoine, Sara Rayburn and Ryan Benton (B242)
- A Cognitive Architecture Based on Neuroscience for the Control of Virtual 3D Human Creatures, Felipe Rodriguez, Francisco Galvan, Felix Ramos, Erick Castellanos, Gregorio Garcia and Pablo Covarrubias (B237)

BI Session - B7 (August 30, 09:00 - 11:00)

Cognitive Computing and Learning
Chair:
Location: TEL 0005

- An Adaptive Model for Dynamics of Desiring and Feeling based on Hebbian Learning, Tibor Bosse, Mark Hoogendoorn, Zulfiqar A. Memon, Jan Treur and Muhammad Umair (B216)
- Rank-Score Characteristics (RSC) Function and Cognitive Diversity, D. Frank Hsu, Bruce S. Kristal and Christina Schweikert (B247)
- Cognitive Effort for Multi-agent Systems, Luca Longo and Stephen Barrett (B205)
- Concept Learning in Text Comprehension, Manas Hardas and Javed Khan (B221)
- Comparing EEG/ERP-like and fMRI-like Techniques for Reading Machine Thoughts, Fabio Massimo Zanzotto and Danilo Croce (B209)

AMT Session - A11 (August 30, 09:00 - 11:00)

Web Mining, Wisdom Web and Web Intelligence
Chair:
Location: TEL 0007

- An Empirical Approach for Opinion Detection using Significant Sentences, Anil Kumar K.M and Suresha
- Automatically Extracting Web Data Records, Dheerendranath Mundluru, Vijay V. Raghavan, and Zonghuan Wu
- Web User Browse Behavior Characteristic Analysis Based on a BC Tree, Dingrong Yuan and Shichao Zhang
- Clustering Web Users Based on Browsing Behavior, Tingshao Zhu
- Privacy Preserving in Personalized Mobile Marketing, Yuqing Sun and Guangjun Ji

Coffee break (11:00 - 11:20)

BI Session - B8 (August 30, 11:20 - 13:20)

Cognition-inspired Applications II
Chair:
Location: TEL 0006

- Computational Modeling and Analysis of Therapeutical Interventions for Depression, Fiemke Both, Mark Hoogendoorn, Michel C.A. Klein and Jan Treur (B232)
- The Effect of Sequence Complexity on the Construction of Protein-Protein Interaction Networks, Mehdi Kargar and Aijun An (B252)
- Towards Inexpensive BCI Control for Wheelchair Navigation in the Enabled Environment: A Hardware Survey, Kenyon Stamps and Yskanda Hamam (B234)
- Investigation on Human Characteristics of Japanese Katakana Recognition by Active Touch, Suguru Yokotani, Jiajia Yang and Jinglong Wu (B249)
- Modelling the Emergence of Group Decisions Based on Mirroring and Somatic Marking, (B231)

BI Session - B9 (August 30, 11:20 - 13:20)

Cognitive Modeling and Information Processing
Chair:
Location: TEL 0006

- Behavioural Abstraction of Agent Models Addressing Mutual Interaction of Cognitive and Affective Processes, Alexei Sharpanskykh and Jan Treur (B250)
- How Does Repetition of Signals Increase Precision of Numerical Judgment? Eike Benjamin Kroll, Jorg Rieger and Bodo Vogt (B224)
- Sparse Regression Models of Pain Perception, Irina Rish, Guillermo A. Cecchi, Marwan N. Baliki and A. Vania Apkarian (B220)
- A Qualitative Approach of Learning in Parkinson's Disease, Delphine Penny-Leguy and Josiane Caron-Pargue (B233)

AMT Session - A12 (August 30, 11:20 - 13:20)

Machine Learning and Human-Centered Robotics
Chair:
Location: TEL 0007

- K-Means Clustering as a Speciation Mechanism within an Individual-Based Evolving Predator-Prey Ecosystem Simulation, Adam Aspinall and Robin Gras
- Improving Reinforcement Learning Agents Using Genetic Algorithms, Akram Beigi, Hamid Parvin, Nasser Mozayani, and Behrouz Minaei
- Robust and Efficient Change Detection Algorithm, Fei Yu, Michael Chukwu, and Q. M. Jonathan Wu

AMT'10/BI'10 Invited Talks

Title: Technology-Mediated Social Participation: Deep Science and Extreme Technology

PROFESSOR BEN SHNEIDERMAN
University of Maryland, USA
http://www.cs.umd.edu/hcil/

Abstract
The dramatic success of social media such as Facebook, Twitter, YouTube, Flickr, blogs, and traditional discussion groups empowers individuals to become active in local and global communities. With modest redesign, these technologies can be harnessed to support national priorities such as healthcare/wellness, disaster response, community safety, energy sustainability, etc. This talk describes a research agenda for these topics that develops deep science questions and extreme technology challenges.

Biography
BEN SHNEIDERMAN (http://www.cs.umd.edu/~ben) is a Professor in the Department of Computer Science and Founding Director (1983-2000) of the Human-Computer Interaction Laboratory (http://www.cs.umd.edu/hcil/) at the University of Maryland. He was elected as a Fellow of the Association for Computing (ACM) in 1997, a Fellow of the American Association for the Advancement of Science (AAAS) in 2001, and a Member of the National Academy of Engineering in 2010. He received the ACM SIGCHI Lifetime Achievement Award in 2001.

Ben is the co-author with Catherine Plaisant of "Designing the User Interface: Strategies for Effective Human-Computer Interaction" (5th ed., 2010) http://www.awl.com/DTUI/. With Stu Card and Jock Mackinlay, he co-authored "Readings in Information Visualization: Using Vision to Think" (1999). With Ben Bederson he co-authored "The Craft of Information Visualization" (2003). His book "Leonardo's Laptop" appeared in October 2002 (MIT Press) and won the IEEE book award for Distinguished Literary Contribution. His latest co-authored book, "Analyzing Social Media Networks with NodeXL" (www.codeplex.com/nodexl) was published in August 2010.

Title: Fractionating the Rational Brain

PROFESSOR VINOD GOEL
York University, Canada
http://www.yorku.ca/vgoel

Abstract

Considerable progress has been made over the past decade in our understanding of the neural basis of logical reasoning. Unsurprisingly these data are telling us that the brain is organized in ways not anticipated by cognitive theory. In particular, they're forcing us to confront the possibility that there may be no unitary reasoning system in the brain (be it mental models or mental logic). Rather, the evidence points to a fractionated system that is dynamically configured in response to certain task and environmental cues. I will review three lines of demarcation including (a) systems for heuristic and formal processes (with evidence for some degree of content specificity in the heuristic system), (b) conflict detection/resolution systems, and (c) systems for dealing with certain and uncertain inferences; and then offer a tentative account of how the systems might interact to facilitate logical reasoning. Sensitivity to data generated by neuroimaging and patient methodologies will move us beyond the sterility of mental models vs. mental logic debate and further the development of cognitive theories of reasoning.

Biography

Vinod Goel studied architectural design and computer science as an undergraduate. He received his PhD in Cognitive Science from UC-Berkeley, followed by postdoctoral training in cognitive neuroscience at the NIH, USA and Institute of Neurology/UCL, UK. He is currently a Professor of Cognitive Neuroscience at York University, Canada, and the University of Hull, UK. His research uses brain imaging (fMRI) and lesion analyses techniques to study the cognitive, computational, and neural basis of rational thought processes ranging from logical inference to design problem-solving. This work has resulted in numerous, highly cited publications and has been recognized by a number of awards, including the McDonnell-Pew Program in Cognitive Neuroscience Award.

Title: Cognitive Informatics and Denotational Mathematical Means for Brain Informatics

PROFESSOR YINGXU WANG
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http://enel.ucalgary.ca/People/wangyx/

Abstract
The contemporary wonder of sciences and engineering has recently refocused on the beginning point of them: how the brain processes internal and external information autonomously and cognitively rather than imperatively as those of conventional computers. Cognitive Computing (CC) is an emerging paradigm of intelligent computing methodologies and systems that implements computational intelligence by autonomous inferences and perceptions mimicking the mechanisms of the brain. CC is emerged and developed based on the transdisciplinary research in cognitive informatics and abstract intelligence. Cognitive Informatics (CI) [Wang 2002] is a transdisciplinary enquiry of computer science, information science, cognitive science, brain science, and intelligence science that investigates into the internal information processing mechanisms and processes of the brain and natural intelligence, as well as their engineering applications. The theoretical framework of cognitive informatics covers the Layered Reference Model of the Brain (LRMB), the Object-Attribute-Relation (OAR) model of information representation in the brain, the cognitive informatics model of the brain, and neuroinformatics. Recent studies on LRMB in cognitive informatics reveal an entire set of cognitive functions of the brain and their cognitive process models, which explain the functional mechanisms and cognitive processes of the natural intelligence with 43 cognitive processes at seven layers known as the sensation, memory, perception, action, meta-cognitive, meta-inference, and higher cognitive layers from the bottom up. Abstract Intelligence (αI) [Wang, 2008] and Denotational Mathematics (DM) [Wang, 2000, 2009] play an important role in cognitive informatics, brain informatics, and cognitive computing. αI is a universal mathematical form of intelligence that transfers information into actions and behaviors; while DM is a category of expressive mathematical structures that deals with high-level mathematical entities beyond numbers and sets, such as abstract objects, complex relations, perceptual information, abstract concepts, knowledge, intelligent behaviors, behavioral processes, and systems. The latest advances in CI and CC have led to a systematic solution for explaining brain informatics and the future generation of intelligent computers. A wide range of applications of CI, αI, CC, and DM have been recognized in brain informatics toward the implementation of highly intelligent systems such as world-wide wisdom (WWW+), cognitive knowledge search engines, autonomous learning machines, and cognitive robots.

Biography
Dr. Yingxu Wang is professor of cognitive computing and software engineering, Director of International Institute of Cognitive Informatics and cognitive computing (IICICC), and Director of Theoretical and Empirical Software Engineering Research Center (TESERC) at the University of Calgary, Canada. He is a Fellow of WIF, a P.Eng of Canada, a Senior Member of IEEE and ACM, and a member of ISO/IEC JTC1 and the Canadian Advisory Committee (CAC) for ISO. He received a PhD in Software Engineering from the Nottingham Trent University, UK, in 1997, and a BSc in Electrical Engineering from Shanghai Tiedao University in 1983. He has industrial experience since 1972 and has been a full professor since 1994. He was a visiting professor in the Computing Laboratory at Oxford University in 1995, Dept. of Computer Science at Stanford University in 2008, and the Berkeley Initiative in Soft Computing (BISC) Lab at University of California, Berkeley in 2008, respectively. He is the founder and steering committee chair of the annual IEEE International Conference on Cognitive Informatics (ICCI). He is founding Editor-in-Chief of International Journal of Cognitive Informatics and Natural Intelligence (IJCINI), founding Editor-in-Chief of International Journal of Software Science and Computational Intelligence (IJSSCI), Associate Editors of IEEE Transactions on System, Man, and Cybernetics (Part A), Journal of Advanced Mathematics and Applications (JAMA), and International Journal of Applied Metaheuristic Computing (IJAMC), as well as Editor-in-Chief of CRC Book Series in Software Engineering. Prof. Wang is the initiator of a number of cutting-edge research fields or subject areas such as cognitive informatics, abstract intelligence, cognitive computing, cognitive computers, denotational mathematics (i.e., concept algebra, system algebra, real-time process algebra, granular algebra, visual semantic algebra, and inference algebra), software science (i.e., theoretical software engineering and mathematical laws of software engineering), coordinative work organization theory, deductive semantics, LRMB, the reference model of autonomous agent systems, cognitive complexity of software, and built-in tests (BITs). He has published over 110 peer reviewed journal papers, 200+ peer reviewed full conference papers, and 12 books in cognitive informatics, software engineering, and computational intelligence. He is the recipient of dozens international awards on academic leadership, research achievements, best papers, and teaching in the last 36 years.

Title: Active Smart u-Things and Cyber Individuals

PROFESSOR JIANHUA MA
Hosei University, Japan
http://cis.k.hosei.ac.jp/~jianhua/

Abstract
Due to the continuing miniaturization of chips and availability of wired/wireless communications, many kinds/forms of devices can be integrated into physical objects and ambient environments. The u-things, as opposed to pure digital e-things existing on computers/Web/Internet, are ordinary physical things with attached, embedded or blended computers, networks, and/or some other devices such as sensors, actors, e-tags and so on. Active smart u-things are ones that can, more or less, sense, compute, communicate, and may take some actions according to their goals, situated contexts, usersâ€™ needs, etc. Active smart u-things can be with different levels of intelligence from low to high, and in various intelligent forms, e.g., aware, context-aware, interactive, reactive, proactive, assistive, adaptive, automated, autonomic, sentient, perceptual, organic, life-like, cognitive, thinking, etc. Active smart u-things may cover innumerable types of physical things in the real world. They can be roughly classified into three categories, i.e., smart object, smart space and smart system, according to their appearances and functions. The grand challenge is how to enable these smart u-things to offer desired services to all people in right time, right place and right means with ubisafe guarantee. Furthermore, the essential and existence of human in cyber-physical combined spaces should be re-examined. The Cyber Individual, with a short term â€˜Cyber-Iâ€™, is a real individualâ€™s counterpart in cyberspace. Cyber-I can be seen as a comprehensive description of a real individual including oneâ€™s physical status, physiological states, psychological behaviors, personal features, social relations, history experiences, etc. Such kind of individual description and modeling is fundamental to offer personalized services to different users according to their needs and situations.

Biography
Jianhua Ma is a Professor at the Faculty of Computer and Information Sciences of Hosei University since 2000. Previously, he had 15 years' teaching/research experience at NUDT, Xidian University and the University of Aizu (Japan). His research from 1983 to 2003 covered wireless communications, data encryption, speech processing, multimedia QoS, 1-to-m HC hyper-interface, graphics ASIC, e-learning and virtual university, CSCW, multi-agents, Internet audio/video, mobile web service, P2P network, etc. Since 2003 he has been devoted to what he called Smart World/Hyperworld pervaded with smart physical u-things, characterized with Ubiquitous Intelligence (u-Intelligence, UI) for u-Services with UbiSafe guarantee. Dr. Ma has published over 200 papers in journals and proceedings, and edited over 10 books. He is a Co-Editor-in-Chief of JUCI, JMM, JoATC, JPCC and IJUNESST. He is on the editorial boards of IJCPOL, IJDET, IJWMC, IJSH, IJSIA, IJDTA, IJCIT and IJAS, and has edited over 15 journal special issues as a Guest Editor. He organized the 6th Int'l Conf. on Distributed Multimedia Systems (DMS'99) as a PC Co-Chair, the 1st Int'l Conf. on Cyber Worlds (CW'02) as one of founders and PC Co-Chairs, the 18th IEEE Int'l Conf. on Advanced Information Networks and Applications (AINA'04) as a General Co-Chair, and the 1st IEEE Int'l Conf. on Social Computing (SocialCom'09) as an Advisory Chair. He is a founder of Int'l Conf. on Ubiquitous Intelligence and Computing (UIC), Int'l Conf. on Autonomic and Trusted Computing (ATC), and IEEE/ACM Conf. on Cyber, Physical and Social Computing (CPSCom). He is a Chair of IEEE CIS Task Force on Autonomic and Trusted Computing, and a co-founder of IEEE Task Force on Ubiquitous Intelligence and Computing.

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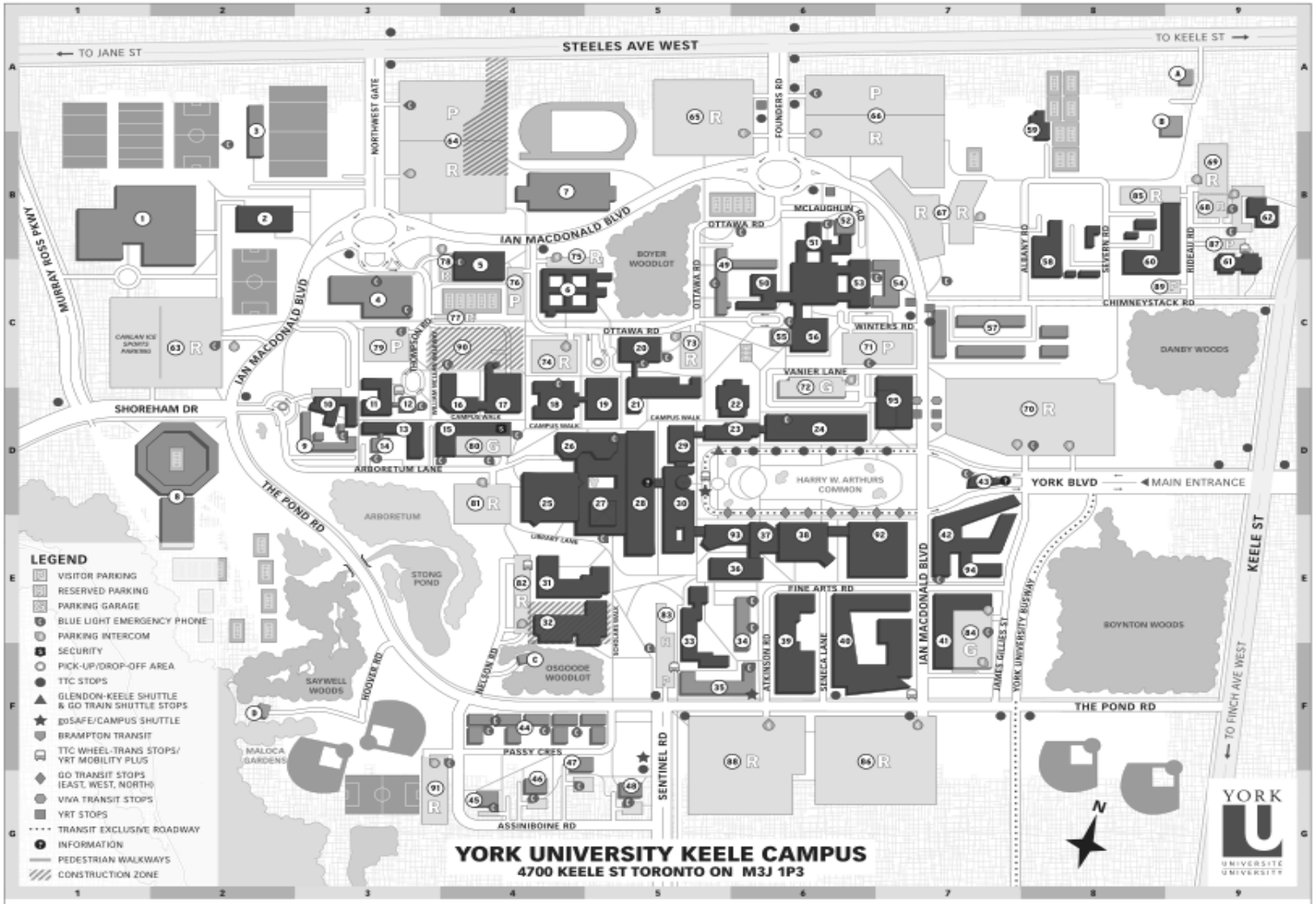
Map of Conference Venue



CAMPUS DIRECTORY

ACADEMIC, ADMINISTRATIVE & COMMERCIAL BUILDINGS

59	190 Albany Road	ALB	A8
92	Accolade East	ACE	E7
93	Accolade West	ACW	E6
95	Archives of Ontario*	AO	D7
33	Atkinson	ATK	E5
29	Behavioural Science	BSB	D5
41	**Bennett Centre for Student Services, Admissions**	BCS	E7
24	Bookstore, York Lanes	YL	D6
10	Calumet College	CC	D3
27	Central Square	CSQ	D5
58	Central Utilities Building	CUB	B8
38	Centre for Film & Theatre	CFT	E6
16	Chemistry	CB	D4
62	Computer Methods Building**	CMB	B9
19	Computer Science & Engineering	CSE	D5
26	Curtis Lecture Halls	CLH	D5
6	East Office Building	EOB	C4
94	Executive Learning Centre	ELC	E7
21	Farquharson Life Sciences	FRQ	D5
50	Founders College	FC	C6
31	Health, Nursing & Environmental Studies	HNE	E4
36	Joan & Martin Goldfarb Centre for Fine Arts	CFA	E5
61	Kinsmen	K	C9
90	Life Sciences Building	LS	C4
43	Lorna R. Marsden Honour Court & Welcome Centre	HC	D7
20	Lumbers	LUM	C5
51	McLaughlin College	MC	B6
11	Norman Bethune College	BC	D3
17	Observatory, Petrie	PSE	D4
32	Osgoode Hall Law School	OSG	E4
17	Petrie Science & Engineering	PSE	D4
60	Physical Resources Building	PRB	B9
28	Ross Building	R	D5
25	Scott Library	SCL	D4
27	Scott Religious Centre, CSQ	SRC	D5
40	Seneca @ York, Stephen E. Quinlan Building**	SAY	E7
42	Seymour Schulich Building	SSB	E7
2	Sherman Health Science Research Centre	SHR	B2
18	Steacie Science & Engineering Library	STL	D4
22	Stedman Lecture Halls	SLH	D6
13	Stong College	SC	D3
23	Student Centre	STC	D6
4	Tait McKenzie Centre	TM	C3
39	Technology Enhanced Learning	TEL	E6
56	Vanier College	VC	C6
30	Vari Hall	VH	D5
5	West Office Building	WOB	C4
15	William Small Centre	WSC	D4
53	Winters College	WC	C6
24	York Lanes	YL	D6
95	York Research Tower	YRT	D7

RESIDENCES & APARTMENTS

48	320 Assiniboine Road	AS2	G5
47	340 Assiniboine Road	AS4	F4
46	360 Assiniboine Road	AS6	G4
45	380 Assiniboine Road	AS8	G4
34	Atkinson Residence	AR	E6
12	Bethune Residence	BR	D3
9	Calumet Residence	CR	D3
49	Founders Residence	FR	C5
57	Harry Sherman Crowe Housing Co-op**	HCC	C7
44	Passy Gardens, 2–18 Passy Cres.	PASSY	F4
35	The Pond Road Residence	PON	F5
14	Stong Residence	SR	D3
52	Tatham Hall	TH	B6
55	Vanier Residence	VR	C6
54	Winters Residence	WR	C7

PARKING GARAGES – VISITORS

80	Arboretum Lane Parking Garage	ARB	D4
84	Student Services Parking Garage	SSP	E7
72	York Lanes Parking Garage	YLP	D6

PARKING LOTS – VISITORS

83	Atkinson Lot	E5
66	Founders Road East Lot	A6
64	Northwest Gate Lot	B4
79	Thompson Road Lot	C4
71	Vanier Lot	C7
76	West Office Building East Lot	C4
89	Physical Resources Building South Visitor Lot	C9
87	Kinsmen Lot	B9

PARKING LOTS – RESERVED

67	Albany Road Lot	B7
82	Atkinson Lot	E5
75	East Office Building Lot	B4
66	Founders Road East Lot	A6
65	Founders Road West Lot	A5
81	Library Lot	D4
73	Lumbers Lot	C5
82	Nelson Road Lot	E4
64	Northwest Gate Lot	B4
91	Passy Crescent Lot	G3
85	Physical Resources Building North Lot	D7
68	Physical Resources Lot	B9
69	Rideau Road Lot	B9
88	Sentinel Road Lot	F6
63	Shoreham Drive Lot	C2
74	Steacie Lot	C4
77	Tait McKenzie Lot	C3
86	The Pond Road East Lot	F7
71	Vanier Lot	C7
78	West Office Building West Lot	C4
70	York Boulevard Lot	B8

VISUAL PERFORMANCE ARTS FACILITIES

92	Art Gallery of York University	ACE	E7
37	Burton Auditorium	BU	E6
92	Gales Gallery	ACW	E6
38	Joseph G. Green Studio Theatre	CFT	E6
92	McLean Performance Studio	ACE	E7
92	Price Family Cinema	ACE	E7
92	Sandra Faire & Ivan Fecan Theatre	ACE	E7
92	Tribute Communities Recital Hall	ACE	E7

SPORT & RECREATION FACILITIES

1	Canlan Ice Sports*	ICE	B1
4	Tait McKenzie Centre	TM	C3
8	Tennis Canada – Rexall Centre*	TC	D2
7	Track & Field Centre*	TFC	B4
3	York Stadium	STA	A2

HISTORICAL HOUSE

C	Hart House	HH	F4
D	Hoover House	HOH	F2
B	Stong Barn	SB	A9
A	Stong House	SH	A9

* Shared use
** Non-York facility

JUNE 30, 2010