

September 2010

IEEE OTTAWA NEWSLETTER - September 2010

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News Submission: write an email to the editor as per the adopted format

IEEE Ottawa Section Website: <http://ottawa.ieee.ca/>

Newsletter on the Web: <http://ottawa.ieee.ca/news/>

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A. IEEE Ottawa Section News & Events

1. Get Real - The Secret to Authentic Success

TITLE: Get Real - The Secret to Authentic Success

SPEAKER: Patti Lovett Reid, Senior Vice President with TD Waterhouse

DATE: Monday, September 27, 2010

TIME: Registration 18:00 - 18:30; Seminar 18:30 - 20:00

LOCATION: Ottawa Hunt and Golf Club

MAP:

http://maps.google.com/maps?f=q&source=s_q&hl=en&geocode=&q=1+hunt+club+ottawa+on&sll=45.28091,-75.733278&sspn=0.01303,0.016201&ie=UTF8&hq=&hnear=1+Hunt+Club+Rd,+Ottawa,+Ottawa+Division,+Ontario,+Canada&z=17

PARKING: Free.

ADMISSION: Free.

REGISTRATION: rsvp.tdevent@ieee.org

ORGANIZED BY: TD Waterhouse and IEEE Women In Engineering Ottawa

CONTACT: jng@ieee.org

URL: <http://ieee.org/go/plovettreid>

ABSTRACT: Get Real - The Secret to Authentic Success by Patricia Lovett-Reid, Senior Vice President with TD Waterhouse shares real life stories of Canadian female role models, describing their struggles and successes as they seek and achieve their true goals in life. This motivational speech shows how money, lifestyle and happiness are all part of the same package—and is highly achievable for anyone looking for authentic success.

2. Multicore Acceleration of Exact String Matching for Computational Mass Spectrometry

TITLE: Multicore Acceleration of Exact String Matching for
Computational Mass Spectrometry
SPEAKER: Dr. James Green, Associate Professor Systems &
Computer Engineering, Carleton University
DATE: Tuesday, September 21, 2010
TIME: Registration 18:00 - 18:30; Seminar 18:30 - 20:00
LOCATION: Room 5084, SITE Building, University of Ottawa - 800 King
Edward Ave. (To be confirmed on the website;
<http://ottawa.ieee.ca/news/>)
MAP:
PARKING: None.
ADMISSION: Free.
REGISTRATION: rabielfmo@ieee.org
ORGANIZED BY: Ottawa CS Chapter & Ottawa EMBS Chapter
CONTACT: rabielfmo@ieee.org
URL: <http://ottawa.ieee.ca/cs/>

ABSTRACT: The talk will begin by explaining how computational acceleration of scientific computing can lead to higher confidence protein identification in the context of tandem mass spectrometry (MS/MS). By bringing offline data analysis 'into the loop', we hope to control the instrument in real-time and achieve information-driven MS/MS. A key component of such a system involves exact string matching, where short query peptides must be searched against entire proteomes within strict real-time requirements. To this end, we have developed a number of exact string matching algorithms suitable for implementation on multicore architectures. Search throughput results are presented for the Cell B/E and NVIDIA CUDA GPGPU platforms including performance comparisons with contemporary approaches. At present we are able to search the entire human proteome within less than 3ms using a commodity graphics card, satisfying the requirements for an information-driven MS/MS system.

3. Ottawa Humanitarian Initiatives monthly meeting

TITLE: Ottawa Humanitarian Initiatives monthly meeting
SPEAKER: Alfredo Herrera
DATE: Thursday, September 23, 2010 (Tentative; please check website for confirmation <http://ottawa.ieee.ca/news/>)
LOCATION: Algonquin College
REGISTRATION: alfredo.herrera@ieee.org

ORGANIZED BY: IEEE-Canada Humanitarian Initiatives Committee
CONTACT: Alfredo Herrera (alfredo.herrera@ieee.org)
URL: <http://ewh.ieee.org/mu/r7-hic/2010/08/23/ottawa-hic-monthly-meeting-third-week-of-month/>

ABSTRACT: IEEE Canada has established a new committee to support humanitarian initiatives. We would like to invite you to join us for our monthly meeting every third week of the month. Next meeting should be on the week of September 20, 2010. Details are available on our website.

We will be following up on work currently underway to select, define and use Open Hardware. Some initial information is available at: <http://csiopensource.wordpress.com/> , more will be available in our virtual community.

We will also select a project for the Ottawa HIC volunteers group, it could be helping on the Proof-of-Concept for the HTC-Data Connectivity long-range WiFi link, modification to the current HTC source/charge controller design, collaboration with WE CARE Solar on improvements to their solar suitcase design, or a proposal from volunteers like you.

4. Methods and technologies for detecting and preventing the stroke

TITLE: Methods and technologies for detecting and preventing the stroke

SPEAKER: Dr. Yasheng Maimaitijiang, Postdoctoral Fellow,
Department of Systems and Computer Engineering, Carleton University

DATE: Wednesday, September 29, 2010

TIME: 18:00 - 20:00

LOCATION: Mackenzie Building 3328, Carleton University

ABSTRACT: Heart diseases and strokes are a major cause of mortality that comprises 31% of all deaths in Canada. Each year more than 15 million people suffer from stroke worldwide according to World Health Organization. The high mortality rate (5 million) and in survivors the high rate of disabilities (5 million) is a social and economical burden to the west. A faster detection of these life threatening events and an earlier start of the therapy will save many lives and reduce successive handicaps. Currently only tomographical imaging modalities (like Computer Tomography (CT) and Magnetic Resonance Imaging (MRI)) can detect and visualize the stroke. New modalities like MIT (Magnetic Induction Tomography) and EIT (Electrical Impedance Tomography)

have been under research to provide an early detection and a bedside solution for continuous monitoring. This disease has such a serious consequence, but you will be surprised to know how easy it is to prevent it (over 80 percent of all strokes) from happening at the first place.

5. Congratulations - IEEE WIE Carleton University

The Women in Engineering IEEE Educational Activities Department awarded the IEEE WIE Carleton University Student Branch Affinity Group the "WIE 2009 Student Branch Affinity Group of the Year." This award comes with a prize of \$250.00 US. Congratulations to WIE Carleton University Student Branch Affinity Group for their commendable performance, and thanks to the IEEE Ottawa Section WIE Chair Jennifer Ng for nominating them. Details on the award may be found at http://www.ieee.org/membership_services/membership/women/Affinity/affinity_group_award.html

6. Call for Volunteers for Humanitarian Initiatives Committee

TITLE: Looking for Volunteers for Humanitarian Initiatives Committee

CONTACT: Alfredo Herrera, chair IEEE Canada HIC

DATE: ASAP

LOCATION: <http://ewh.ieee.org/mu/r7-hic/>

REGISTRATION: alfredo.herrera@ieee.org

ORGANIZED BY: IEEE-Canada Humanitarian Initiatives Committee

CONTACT: Alfredo Herrera (alfredo.herrera@ieee.org)

ABSTRACT: IEEE Canada has established a new committee to support humanitarian initiatives in Canada. We are calling on the Ottawa Section members to help on a few of the initiatives underway: helping prepare a demo of a battery recharging service for presentation at EPEC 2010, helping create process for shipping and receiving equipment for humanitarian initiatives, design of open source Lithium Ion battery charger, organization of Canada-wide student competition of open source hardware for humanitarian projects.

7. Ottawa wins hosting the Electromagnetic Compatibility Society Symposium 2016

Electromagnetic Compatibility Symposium is the EMC Society's flagship event that is held annually in North America. Attendees are between 1500 and 2000. The local team made of Syed Bokhari, Kin Sze, Wahab Almuhtadi, Sreeraman Rajan and Gregory Hiltz led by Qiubo Ye were instrumental to the bid success. Furthermore, there was also active and strong support from the IEEE Ottawa Section Executive in many ways, together with the great support from Jacques Drury, Account Manager Ottawa Convention Centre, and coordinator of this site inspection, and Barbara Cross, Senior Convention Sales Manager, Ottawa Tourism.

This is one of many events the IEEE Ottawa Section continue to pursue for the benefit of local members and economy within its service area.

8. ANNOUNCING: Engineer Wellness GoodLife Fitness Corporate Program

Staying fit is the key to reducing stress, feeling healthy, increasing your energy and enjoying an excellent quality of life. Beginning 1 Sept 2010, Engineering Institute of Canada Society members are able to join Engineer Wellness GoodLife Corporate Program. Thus, any IEEE Canada members, and their family members living under the same roof, can join GoodLife Fitness Canada (Energie Cardio in Quebec, Nubody in BC) Wellness corporate program. Details on joining can be obtained by visiting www.engineergoodlife.ca The username to access the site is eic and the password is goodlife. This program is similar to that offered by the Canadian Medical Association member plan announced at http://www.cma.ca/index.php?ci_id=10043394&la_id=1 to promote health to their members.

9. IEEE Ottawa Section Conference Co-Sponsorships and Career Fairs

Please check the respective website for details on call for papers, deadlines, and other updates.

9.1. 2010 IEEE 72nd Vehicular Technology Conference: VTC2010 on September 6-9, 2010 at Westin Hotel

This semi-annual flagship conference of the IEEE Vehicular Technology Society will bring together individuals from academia, government, and industry to discuss and exchange ideas in the fields of wireless, mobile, and vehicular technology. The conference will feature world-class

plenary speakers, tutorials, and technical as well as application sessions. <http://www.ieeevtc.org/vtc2010fall/>

9.2. 2010 IEEE International Carnahan Conference on Security Technology (ICCST) on October 12-15, 2010 at Dolce Hayes Mansion Hotel, San Jose, CA, USA

The ICCST is a forum for researchers and practitioners in both new and existing security technology, providing an interchange of knowledge through paper presentations and publication of proceedings that have been selected by the ICCST organizing committee.

<http://www.ieee.org/iccst>

9.3. 2011 IEEE International Carnahan Conference on Security Technology (ICCST) on October 11-13, 2011

"Tecnocampus Mararo Maresme Mataro, Spain" Conference is directed toward research, development and user aspects of electronic security technology. <http://ieee.org/iccst>

Career Fair

9.4. Ottawa Citizen Career Fair on November 3, 2010 at Hampton Inn & Conference Centre

The Ottawa Citizen Career Fair welcomes Engineering and Hi-Tech professionals, preferably with a minimum of 2 years' experience. A focus on opportunities from the Public and Financial Sectors, Healthcare, Retail, as well as General and Entrepreneurial Careers will also be featured at the Fair. Free Entry.

<http://www.ecarrieres.com/en/salons/ottawa/>

Please Note: local events are sometimes confirmed after the e-newsletter is published. More current information may be found on our website www.ottawa.ieee.ca

B. IEEE News

1. IEEE Day Oct 7-8, 2010

The inaugural edition of IEEE Day will be held 7-8 October 2010, global event to celebrate the achievements of IEEE members. IEEE Day

recognizes IEEE members - past, present, and future - on the anniversary of the first time IEEE members gathered to share their technical ideas back in 1884 (when it was two different organisations).

IEEE Members and organizational units around the world (Regions, Sections, Societies, Chapters, Affinity Groups, Student Branches, etc.) are encouraged to take an active role in organizing celebration events. IEEE Day provides an exceptional opportunity to recognize existing members, and introduce potential members to IEEE.

More information about IEEE Day can be <http://www.ieeeday.org/>

The IEEE Ottawa Section would like to recognize you too. Please submit to ottawa_webmaster@ieee.org

2. Membership Development and Benefits News

2.1 IEEE has launched an upgraded IEEE Xplore Mobile. Users can now conveniently search over two million technical documents with any mobile device connected to the Internet. Basic search from the IEEE Xplore Mobile home page can then be refined by searching within the results or by using subject filters. A predictive type-ahead feature, that suggests searches as you type, is available for mobile devices that are JavaScript-enabled. All results you would find on the classic IEEE Xplore for abstracts and citations are displayed ten at a time by relevance. You can then decide to read or e-mail the abstracts to a remote computer. <http://ieeexplore.ieee.org/Xplore/guesthome.jsp>

2.2 Learning to Play Games - A new IEEE eLearning Library Tutorial Like playing Ms. Pac-Man or Othello? A new IEEE eLearning Library Tutorial, Learning to Play Games, by Simon Lucas, teaches game strategy learning functions used in developing these types of games. The tutorial will cover the two main approaches to learning game strategy: evolution (including co-evolution) and temporal difference learning. It also discusses some ways of hybridizing both. Each method will be demonstrated with reference to some simple fragments of software, illustrating how the learning algorithm is connected with the game and with the function approximation architecture. Example games will include Othello, Simulated Car Racing, and Ms. Pac-Man. To learn more about this new tutorial, please visit the IEEE eLearning Library <https://ieee-elearning.org/login/index.php> (need to login).

Find over 160 other available eLearning tutorials by viewing the full catalogue today <http://ieee-elearning.org/course/index.php>

2.3 Electronics Discounts - Compare to Back-to-School Specials

Check out for deals from Mozy, HP, and Dell at

http://www.ieee.org/membership_services/membership/financial_advantage/index.html

2.4 Career Planning

Don't Let Job Training Leave You Obsolete By Peter Weddle

Job retraining is a waste of time. That's the conclusion of study conducted by the US Department of Labour. After studying the experience of 160,000 laid-off workers who went through DOL-subsidized training programs, it found that the education neither helped them land a job nor hang onto one if they were able to get hired.

You may read the article at

<http://www.jobjournal.com/thisweek.asp?artid=3058>

2.5 Free e-Books

Free E-book Titles and Access to Archived Webinars to All IEEE

Members at <http://www.ieeeusa.org/careers/gpa/> (the free eBooks are classified under "Classics")

3. IEEE President Elect and Director Elect – Candidates

Your choice of IEEE President (world wide) directly affects your services and benefits as a member. Your vote makes a great difference as the one you would have hoped to win may lose by only a few votes. You Count! Canada's Vote Counts!

<http://www.ieee.org/about/corporate/election/candidates.html>.

This year, there are only two candidates for the 2011 position:

* Joseph V. Lillie (Nominated by IEEE Board of Directors)

<http://www.ieee.joelillie.com/>

* Gordon W. Day (Nominated by IEEE Board of Directors)

<http://www.gwday.net/>

You may view the roundtable discussion at <http://www.ieee.tv/> (search: President Elect 2011)

Or, visit the website to learn of candidates for other positions, and exercise your privilege as a member in the world's largest professional organization

<http://www.ieee.org/about/corporate/election/candidates.html>.

As an example, for Division Seven (Energy and Power Engineering) & Director Elect candidates are:

* Mohamed E. El-Hawary (Nominated by Petition)

<http://www.moelhawary.com/>

* Saifur Rahman (Nominated by IEEE Division VII)

<http://www.saifurrahman.org/ieee/>

* Cheryl (Cheri) A. Warren (Nominated by IEEE Division VII)

http://www.ieee.org/portal/cms_docs_pes/pes/subpages/bullseye-folder/May10/May-candidate_link.pdf.pdf

Deadline is Oct 1st - why wait?

4. 2011 IEEE 24th Canadian Conference on Electrical and Computer Engineering (CCECE), May 8 - 11, 2011

Title: 2011 IEEE 24th Canadian Conference on Electrical and Computer Engineering (CCECE)

Date & Time: May 8 - 11, 2011

Location: Niagara Falls, Ontario, Canada

Details: <http://www.ccece2011.org>

Abstract: "Electrifying a Green Future" - The 2011 IEEE Canadian Conference on Electrical and Computer Engineering (CCECE 2011) will be held in Niagara Falls, Ontario, Canada from May 8-11, 2011. CCECE 2011 provides a forum for the presentation of electrical and computer engineering research and development from Canada and around the world. Papers are invited, in French or English, for the following symposia.

* Circuits, Devices and Systems

Chairs: Dr. Karim Karim (University of Waterloo) and Dr. Shahab Ardalan (Gennum Corp.)

* Communications and Networking

Chairs: Dr. Mark Coates (McGill University), Dr. Alagan Anpalagan (Ryerson University) and Dr. Min Dong (UOIT)

* Computers, Software and Applications

Chairs: Dr. Andreas Moshovos (University of Toronto) and Dr. Adnan

Kabbani (Ryerson University)

* Control and Robotics

Chairs: Dr. Lăcră Pavel (University of Toronto), Dr. James Smith (Ryerson University) and Mr. Javad Lavaei (California Institute of Technology)

* Power Electronics and Energy Systems

Chairs: Dr. Gerry Moschopoulos (University of Western Ontario) and Dr. Bala Venkatesh (Ryerson University)

* Signal and Multimedia Processing

Chairs: Dr. Xianbin Wang (University of Western Ontario) and Dr. Saeed Gazor (Queens University)

Authors wishing to submit papers that do not fit within any of the above topics are encouraged to do so to the 'general interest' symposium.

Regular Paper Submission:-

Please submit original full length paper(s) to the Technical Program: Committee using the on-line submission process on our web site at <http://www.ccece2011.org> before January 7, 2011. Click on "Call For Papers" and follow the instructions provided.

Tutorial and Workshop Proposals Submission:

Proposals for half-day tutorials and workshops should be submitted before December 3, 2010 to the Tutorials Chair at tutorials@ccece2011.org.

Important Dates:

Tutorial or workshop proposals must be received by: Friday, December 3, 2010

Full length paper must be received by: Friday, January 7, 2011

Notification of acceptance will be sent out by: Friday, February 4, 2011

Author's Registration ends by: Friday, March 4, 2011

Advance Registration ends by: Friday, April 1, 2011

Industrial Exhibits and Sponsorships:

For industrial exhibits please contact the Industrial Exhibits Chair at exhibits@ccece2011.org. For sponsorships please contact the Sponsorship Chair at sponsorship@ccece2011.org.

Call for Reviewers, Questions or Comments:

To volunteer as a reviewer, please contact Technical Program Co-

Chairs: Scott Yam (scott.yam@queensu.ca) or Andy Ye (aye@ee.ryerson.ca).

For any other questions or comments, please contact the Conference Chair: Wai Tung Ng, Tel: 416 946-5086 Fax: 416 971-2286 Email: ngwt@vrg.utoronto.ca. pour la version en français, voir <http://www.ccece2011.org> s'il vous plait.

5. Webinar on Introduction to Risk Management for Engineering Professionals

Free Webinar for members: IEEE-USA webinar on Introduction to Risk Management for Engineering Professionals was held last month and both presentation and slides can be accessed at: <http://www.ieeeusa.org/careers/webinars/2010/webinar-07-15-10.html>

C. Non-IEEE News and Events/Announcements

1. IEC Young Professionals 2010 Workshop Competition

Go ahead and get ahead by becoming involved with the International Electrotechnical Commission (IEC)'s 2010 workshop competition.

Canadian young professionals are qualified to participate (aged early 20's to mid 30's) who work for industry, government, academia, consumer organizations, or any entity within the Canadian standards and conformity assessment community that uses, benefits from, or contributes to the IEC's work in electrotechnical standardization and conformity assessment.

Winners will be chosen to represent Canada at the IEC 2010 General Meeting, which will be held from October 6-15 in Seattle, Washington; funded to travel to and from Seattle, receive up to three nights accommodation; invited to attend technical meetings where standards are developed; given the opportunity to observe a meeting of the IEC Standardization Management Board (SMB); participate in a visit to local industry; and be mentored by an experienced Canadian member of the IEC; as well as various other sponsored prizes.

On behalf of the Canadian National Committee (CNC) of the IEC, the Standards Council of Canada will be accepting nominations to this competition from April 1st to April 30th.

The following link describes the IEC Young Professional 2010 workshop
- http://www.scc.ca/en_CA/c/document_library/get_file?uuid=0a5af9a7-ae73-41b5-9df7-efb21692f0c4&groupId=10817

In addition, here is a link to our press release -
http://www.scc.ca/en/news-events/news?p_p_id=101_INSTANCE_Oe1V&p_p_lifecycle=0&p_p_state=normal&p_p_mode=view&p_p_col_id=column-2&p_p_col_pps=2&p_p_col_count=5&_101_INSTANCE_Oe1V_struts_action=%2Fasset_publisher%2Fview_content&_101_INSTANCE_Oe1V_urlTitle=2010-workshop-competition-for-young-professionals&_101_INSTANCE_Oe1V_type=content&redirect=%2Fen%2Fnews-events%2Fnews&classPK=82602&classPK=82602

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and be certain to include your IEEE member number.

If you need assistance with your E-Notice subscription, please contact
k.n.luu@ieee.org

If you are not IEEE member please visit:
<http://ottawa.ieee.ca/news/about.html#subscribe>

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