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IEEE OTTAWA NEWSLETTER - September 2011

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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/>

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A. IEEE Ottawa Section News & Events

1. Ottawa Section grieves on the loss of its friend, supporter and guide

IEEE Ottawa Section recently lost its dear friend, supporter and guide, Wallace (Wally) Stanley Read. Wally Read passed away on 16th August 2011 in Cornerbrook Newfoundland, Canada. Wally was 1996 IEEE president and also served as Region 7 director. He served 10 years on the IEEE Board of Directors before being the IEEE President in 1996. Friends in IEEE Ottawa Section, IEEE Canada and IEEE in general, know him and remember him for his contagious dedication, unparalleled support for promotion of IEEE and its values at all levels of memberships, especially with students, witty humor, willingness to share his knowledge, mentor and advance youngsters with leadership aspirations and his simplicity. He was always seen at the R7 board meeting and available for consultation on IEEE related matters or guidance on any matter not related to IEEE. He was a well accomplished person, respected by all his peers and colleagues. He was recognized through several awards for his contributions, including the fellowship upgrade through IEEE. Canada recognized him with the highest civilian honor, the member of the Order of Canada. Ottawa Section mourns the loss of Wally, who was a great friend, supporter and guide. May his soul to rest in peace.

Good bye, Wally. You will be missed and never forgotten. You will stay in our hearts and your memories will be cherished by members of the section. We will continue to cherish and follow the legacy that you have left for us.

Members who would like to know more about Wally, please visit http://ieeeghn.com/wiki/index.php/Oral-History:Wally_Read and read his oral interview where he recounts his life and accomplishments. He shares his vision for the future IEEE.

2. Exercise your right: Vote in IEEE Election

It is important that we exercise our right to vote and have a say in how IEEE is run and how it should position itself for the future. This is the one of the crucial opportunity that we have: to select the person whom we think would better represent our priorities in the top-tier governance. As members, it is our responsibility to bring the officers in the top-tier governance of IEEE whom we think would march the organization for a better future. Please exercise this great opportunity to select the person of your choice, the person whom you envision to be your leader.

IEEE President-Elect, 2012

Roger D. Pollard (Nominated by IEEE Board of Directors)
Peter W. Staecker (Nominated by IEEE Board of Directors)

Please visit <http://www.ieee.org/about/corporate/election/pe.html> for their biographies, IEEE accomplishments and activities and their vision statement to help make your decision.

Region 7 (Canada) candidates are:

Amir G. Aghdam (Nominated by IEEE Region 7)
John Grefford (Nominated by IEEE Region 7)
Adam Skorek (Nominated by IEEE Region 7)

Please visit <http://www.ieee.org/about/corporate/election/reg7.html> for their biographies, IEEE accomplishments and activities and their vision statement to help make your decision.

Furthermore, if you have any questions or need clarifications on their vision and position on various aspects of IEEE, please feel free to email them and have a dialogue with them.
Please use this unique opportunity to know your Director-elect and President-elect.

3 October at 12:00 noon Central Time USA (17:00 UTC) is the last day for voting. Please vote.

3. Call for papers: Fifth IEEE Symposium on Computational Intelligence for Security
and Defense Applications

We would like to invite you to submit Full Regular or Special Session papers to the Fifth IEEE Symposium on Computational Intelligence for Security and Defense Applications (IEEE CISDA 2012) with the theme of "Creating Intelligent Surveillance".

<http://ieee-cisda.org/>

Ottawa, Canada
11-13 July 2012

Sponsored by the IEEE Computational Intelligence Society (CIS)
Technically Co-Sponsored by the IEEE Ottawa Section, the IEEE Computer Society Ottawa Chapter and the IEEE CIS Ottawa Chapter

Important Dates:

- Special Session/Tutorial Proposals Submission: February 20, 2012
- Full Regular or Special Session Paper Submission: March 19, 2012
- Notification of Acceptance/Rejection: April 16, 2012
- Submission of Camera-Ready Submission: May 14, 2012

4. Seminar: Why Instrumentation & Measurement is Critical in Underground Construction and What Challenges it Faces

Speaker: Dr. Michael Gard, Charles Machine Works, Perry, Oklahoma, USA
Date: Thursday, September 15, 2011.
Time: Refreshments, Registration and Networking: 18:30; Seminar: 19:00-20:15
Place: Algonquin College, B-Building, Room B156, 1385 Woodroffe Ave., Ottawa.
Parking: No fee after 5 p.m. at the Parking Lots 8 & 9. Please respect restricted areas.
Admission: FREE. Registration required.
Contacts: branislav@ieee.org or almuhtadi@ieee.org
Link: For more information please visit:
<http://www.ieeeottawa.ca/ims/>
Organizers: IEEE Ottawa IMS, PES, and RS Chapters, Ottawa Educational Activities,
and Algonquin College IEEE Student Branch

5. Monitoring-Based Key Revocation Schemes for Mobile Ad Hoc Networks

Date: Monday, September 12, 2011.
Speaker: Guang Gong, University of Waterloo.
Location: TBD
Contact: Qingsheng Zeng <qingsheng.zeng@crc.gc.ca>
Organized by: ComSoc/BTS/CES
Registration: Free. To ensure a seat, please register by e-mail
contacting: Qingsheng Zeng

Abstract: A primary security challenge in mobile ad hoc networks (MANETs) is the likelihood of node compromises caused by weak physical protection and hostile environments. As a result, key revocation is essential. In this talk, I will present our recent results on key revocation problems in MANETs. I will introduce some novel methods for the design of fully self-organized key revocation schemes for MANETs, which can be directly used in any pairing-based identity based cryptography (IBC) scheme, are adaptable to certificate revocation schemes in public-key infrastructure (PKI) solutions, and secret key-based schemes in MANETs as well.

In the first scenario, the nodes monitor their neighbors, securely propagate their observations, and revoke keys once designed threshold accusations have been received. The solution is very efficient, completely thwart many attacks (including Sybil, impersonation and replay attacks as well as other attacks by insiders and outsiders) and is resilient to advanced

attacks by colluding nodes and roaming adversaries. In the second scenario, the statistical Dirichlet multinomial model is introduced to key revocation processes. Each node keeps track of three categories of behavior, i.e., good, suspicious and malicious behavior, which is defined and classified by an external trusted authority, and updates its knowledge about other nodes' behavior using 3-dimension Dirichlet distribution. It is worth to point it out that those methods have been extended to secure fully distribute peer-to-peer (P2P) network systems.

6. Time Domain Adjoint Sensitivities and their Applications: State of the Art

Speaker: Dr. Prof. Bakr from the Department of Electrical and Computer Engineering,
McMaster University, Hamilton, Ontario, Canada
Date: Friday September 16, 2011
Time: Registration and Networking: 10:00 a.m.; Seminar: 10:30 a.m. - 11:30 a.m.
Location: TBD
Registration: Free. To ensure a seat, please register by e-mail
contacting: Qingsheng Zeng

Abstract: The design process of high frequency structures is usually carried out using Electromagnetic (EM) simulators. A model of the structure under consideration is constructed and a number of key variables controlling its response are chosen. An optimization algorithm (optimizer) drives the simulator to determine the optimal set of values of the designable parameters that satisfies the design specifications.

Gradient-based optimizers are robust with well established convergence proofs. They, however, require sensitivity information which may require large number of extra simulations for each design step. The adjoint variable methods (AVM), aim at efficiently estimating the response sensitivities. Using at most one extra EM simulation of an adjoint system, the response sensitivities with respect to all parameters are estimated regardless of the number of parameters. For the case of network parameters, this extra simulation can be eliminated. The same simulations supplying the network parameters supply their sensitivities as well. This makes gradient-based optimization more efficient. In this talk we review the state of the art of the time-domain AVMs and their applications. We discuss recent techniques that make this approach more efficient in terms of speed and memory storage. We show a number of

interesting applications in microwave imaging, antenna design, and design of photonic devices.
Open points for research are also addressed.

7. Carleton University IEEE Student Branch Recognized

a. Carleton University IEEE Student Branch has been selected as the first place winner of the IEEE Regional Exemplary Student Branch Award. The award will be presented at the Annual Student Congress on September 16-18.

b. Carleton University IEEE Student Branch has been selected as the winner of the IEEE Canada Student Branch Website Design Contest 2011 (<http://ieee.carleton.ca/>).

Congratulations on these great accomplishments!

8. Seminar: Autonomous Aero-Visual and Sensor Based Inspection Network for Asset Monitoring

Speaker: Dr. Arun K. Somani, Anson Marston Distinguish Professor, Iowa State University

Date: Thursday September 22, 2011

Registration: 06:30 p.m

Seminar: 07:00 p.m - 08:00 p.m

Location: Algonquin College, Room T129, T-Building, 1385 Woodroffe Ave., Ottawa, Ontario, Canada

Parking: Parking area # 9. Please respect restricted areas. No fee after 5:00 p.m.

Admission: Free.

Registration: Registration required. To ensure a seat, please register by e-mail W. Almuhtadi

(almuhtadi@ieee.org)

Organizers: ComSoc/BTS/CES Ottawa Joint Chapter, PES Ottawa Chapter & Algonquin College Stud

Url: <http://ottawa.ieee.ca/comsoc>

Abstract: This talk introduces a theoretical and experimental program to develop the inspection and fault detection technology needed to integrate MAVs for persistent intelligence, reconnaissance, maintenance and surveillance for obscured or logistically challenging assets in non-urban environments.

The design is explained using a context of heterogeneous deployment of wireless sensors for real-time asset monitoring by anticipating exceptional conditions and building the system to cope with them. The system converges towards an error-free state with self-stabilization, the ability to fall back

to a safe mode in a financially feasible manner. This sophisticated mechanism requires a real-time capacity estimation capability to sustain the quality-of-service, which can be achieved by a distributed sensor network. We discuss issues in design and information propagation in such sensor clustered topology, optimization for power-aware networking, and link and node capacity assignment to achieve the desired goals.

9. IEEE International Conference on Communications 2012

IEEE Ottawa Section has won the bid to host this conference. The details of the conference are as follows:

Date: June 10-15, 2012
Location: Ottawa, Canada

Since 1965 the IEEE International Conference on Communications has been one of the flagship conferences of the IEEE Communications Society. IEEE ICC brings together the world's leaders, scientists, policy makers from industry and academia. The IEEE Ottawa Section is proud to host IEEE ICC 2012 Conference and Exhibition from 10-15 June 2012 where recent advances in the field of communications will be presented.

The theme of the conference is "CONNECT o COMMUNICATE o COLLABORATE". For participants it promises to stimulate the scientific exchange of ideas, the identification of future trends in communications, and the illumination of business opportunities. The conference program will feature 12 technical symposia, 16 industrial forums, keynote presentations, several workshops, and tutorials.

For general conference information please visit:<http://www.ieee-icc.org/2012>

Important Dates and Deadlines

Workshop Proposal: 31 July, 2011

Contact Email: Markus Brunner (brunner@nw.neclab.eu) or
Lisandro Granville (Granville@inf.ufrgs.br)

Proposal Acceptance Notification: 15 August, 2011

Industry Forum Proposal: 30 September 2011

Contact email: Adam Drobot (Adam.Drobot@2M.com) or
Chi-Ming Chen (chimingchen@att.com)

Acceptance notification: 19 December, 2011

Final presentation materials due: 1 May, 2012

Industry Forum dates: 12-14 June, 2012

Tutorial Proposal: 6 September 2011

Contact email: Azzedine Boukerche (boukerch@site.uottawa.ca) or
Abbas Jamalipour (a.jamalipour@ieee.org)

Acceptance Notification: 9 January 2012

Camera-Ready Paper: 10 February 2012

Conference Paper Submission: 6 September 2011

Acceptance Notification: 9 January 2012

Camera-Ready Paper: 10 February 2012

Papers should be submitted to the particular symposia listed below.

(1) Selected Areas in Communications Symposium

Co-Chairs: Yacine Ghamri-Doudane, Jian Song, Han Vinck, Lutz Lampe, Gabe Jakobson,

Igor Bisio, Jaafar Elmirghani

Contact email: ghamri@ensiie.fr

Paper Submission via EDAS:

SAC - Access Networks

SAC - E-Health

SAC - Powerline Communications

SAC - Satellite and Space Communications

SAC - Smart Grid

SAC - Tactical Communications and Operations

(2) Wireless Communications Symposium

Co-Chairs: Ying Chang Liang, Paul Fortier, Simon Pun, Jingxian Wu, Sonia Aissa, Jerry Gibson

Contact email: ycliang@i2r.a-star.edu.sg

Paper Submission via EDAS:

Wireless Communications Symposium

(3) Wireless Networking Symposium

Co-Chairs: Nidal Nasser, Vojislav Misic, Youssef Iraqi, Nei Kato

Contact email: nasser@cis.uoguelph.ca

Paper Submission via EDAS:

Wireless Networking Symposium

(4) Communication Theory Symposium

Co-Chairs: Jeff Andrews, Martin Haenggi, Wei Yu, Min Chen

Contact email: jandrews@ece.utexas.edu

Paper Submission via EDAS:

Communication Theory Symposium

(5) Signal Processing for Communications Symposium

Co-Chairs: Arumugam Nallanathan, Said Boussakta, Reza Soleymani, Yu Cheng

Contact email: arumugam.nallanathan@kcl.ac.uk

Paper Submission via EDAS:

Signal Processing for Communications Symposium

(6) Optical Networks and Systems Symposium

Co-Chairs: Lena Wosinska, Vinod Vokkarane, Pin Han Ho, Martin Maier

Contact email: Wosinska@kth.se

Paper Submission via EDAS:

Optical Networks and Systems Symposium

(7) Next-Generation Networking Symposium

Co-Chairs: Mohammad Atiquzzaman, Cedric Westphal, Kurt Tutschku, Sidi-Mohammed Senouci

Contact email: atiq@ou.edu

Paper Submission via EDAS:
Next-Generation Networking Symposium

(8) Communication QoS, Reliability & Modeling Symposium
Co-Chairs: Charalabos (Harry) Skianis, Mike Devetsikiotis, Nirwan Ansari, Hideaki Yoshino
Contact email: cskianis@aegean.gr
Paper Submission via EDAS:
Communication QoS, Reliability & Modeling Symposium

(9) Ad-hoc and Sensor Networking Symposium
Co-Chairs: Cheng Li, Rami Langar, Jalel Ben Othman, Lei Shu, Sonia Waharte
Contact email: licheng@mun.ca
Paper Submission via EDAS:
Ad-hoc and Sensor Networking Symposium

(10) Communication Software Services, and Multimedia Applications Symposium
Co-Chairs: Joel Rodrigues, Noura Limam, Toufik Ahmed, Abdelhamid Melouk, Bin Wei
Contact email: joeljr@ieee.org
Paper Submission via EDAS:
Communication Software Services, and Multimedia Applications Symposium

(11) Communication and Information Systems Security Symposium
Co-Chairs: Abderrahim Benslimane, Olivier Festor, Rose Qingyang Hu, Wen Tao Zhu,
Contact email: abderrahim.benslimane@univ-avignon.fr
Paper Submission via EDAS:
Communication and Information Systems Security Symposium

(12) Cognitive Radio and Networks Symposium
Co-Chairs: Ekram Hossain, Rajarathnam Chandramouli, Rajeev Shorey, Charles Clancy
Contact email: ekram@ee.umanitoba.ca
Paper Submission via EDAS:
Cognitive Radio and Networks Symposium

10. Call for volunteers for helping in IEEE International Conference on Communications 2012

The Local organization committee of the IEEE International Conference on Communications 2012 is seeking volunteers in various roles and capacities to help organize and run the conference. This would be a unique opportunity to obtain leadership, management and communication skills. If you are interested, please contact: raedabdullah@ieee.org or groza@site.uottawa.ca or sreeraman@ieee.org

11. IEEE Ottawa Section receives the 2010 Large Section Award

IEEE Ottawa Section was recognized at the Sections Congress 2011 through Large

Section Award, during the inauguration ceremony. You can watch the ceremony through IEEE-TV. The clip of section receiving the award is between 17-20 minutes after the start of the TV.

<https://ieeetv.ieee.org/player/html/viewer#sections-congress-2011-opening-ceremony>

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. Senior Member Elevation

The following Ottawa members were elevated to Senior Member grade in August 2011. The A and A panel met at Calgary, Canada.

- * Rami Abielmona
- * Nicolas Gagnon
- * Howard Schwartz

IEEE Senior Member Program Page:

<http://www.ieee.org/web/membership/senior-members/index.html>

For details and updated news about Senior Membership elevation in Ottawa, visit IEEE Ottawa Section Senior Members Page <http://ottawa.ieee.ca/sm>

2. Student Design Competition 2011-2012

Contact: Alfredo Herrera, chair IEEE Canada HIC
(alfredo.herrera@ieee.org)

Pedro Sanchez, vice-chair Canada HIC
(pedro.sanchez@ieee.org)

Url: <http://www.ieee.ca/hic/>

Organized by: IEEE-Canada Humanitarian Initiatives Committee

Abstract: We are very happy to bring back the Humanitarian Student Design competition. The result from our first competition were significant, having created a set of Intellectual Property for an IEEE solar system for humanitarian projects.

These competitions are open to undergraduate and graduate students enrolled in college or university. An abstract of the winner's work will be published in the IEEE Canadian Review magazine. Prizes will be awarded as follows: first prize, CND \$1000; second prize, CND \$700; third prize, CND \$300.

For this year's competition, we have decided to focus on improving or

innovating on parts of a wireless communication system for humanitarian applications. We are planning to make available a high-speed WiFi link between the University of Ottawa and Algonquin College as a test-bed. The competition will span the Fall'11 and Winter'12 semesters. Teams will be invited to CCECE and ICC2012 to present their projects and to select the winners.

The design proposal can be about any element of an ICT humanitarian application, but bonus points awarded to team designing for the high-speed WiFi link made available. Ideas for projects include: phone applications, throughput increase, antenna design, digital processing, wireless SW application, services based on the wireless link, etc. All designs part of the competition will become part of an Open Source platform for humanitarian ICT projects. The following system may used as a starting point: <http://www.inveneo.org/newsfeed/82km-wifi-haiti>

We are looking forward to your participation.

3. 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. Members of Engineering Institute of Canada (EIC) Societies, which includes IEEE, students and family, can access the benefits of exercise and healthy living at discount of more than 55% off regular prices to GoodLife Fitness (Energie Cardio in Quebec and Nubody).

Please visit www.engineergoodlife.ca (username = eic and password = goodlife) for details.

4. NEW one-stop place for finding all discount programs for IEEE members

IEEE members can take advantage of a myriad of discount opportunities, either in the form of core IEEE products OR from IEEE sponsored programs that are offered at reduced rates as a benefit of membership. However, member awareness of IEEE discount programs is low, such that 50% of all members do not know about them or where to find them.

Thus, IEEE is now presenting information on all programs in a new centralized location, the "IEEE Member Discounts" Web page, and retiring the brand "Financial Advantage Program." The URL is:
http://www.ieee.org/membership_services/membership/discounts/index.html
or in short, <http://www.ieee.org/go/discounts>

Categories are: Insurance, Travel, Technology and Home/Office Discounts. An FAQ clarifies geographic availability of each program, and how sponsored programs are developed and vetted."

Featured discount: IEEE Credit Card

Every time you use your MBNA Mastercard for a purchase, a financial contribution will be made to the IEEE on your behalf. Plus you can enjoy the benefits of no Annual Fee, around-the-clock fraud protection and

unparalleled 24-hour customer service.

5. New members orientation webinars

All new higher grade IEEE members are invited to participate in a New Member Orientation Webinar session designed to help members get the most out of their membership. These live Webinars, which include a 30 minute formal presentation followed by Q&A, provide an overview of IEEE membership and access instructions for members-only benefits and services. Topics include establishing a Web account, setting up a profile on memberNet, logging into myIEEE, networking opportunities, and much more.

Visit the Welcome to IEEE Web page

(http://www.ieee.org/membership_services/membership/welcome.html) to register for a New Member Orientation Webinar, typically held on the fourth Thursday of each month in 2011: 24 March, 28 April, 26 May, 23 June, 28 July, 25 August, 22 September, 27 October, 22 November, and 20 December.

Webinars are held at both 9:00 AM ET and 3:00 PM ET on each day. Please e-mail Adrienne Hahn (a.hahn@ieee.org) for more information.

6. Free Communications Society membership to new members

IEEE membership dues are at half price now through 15 August 2011. And IEEE is offering Free Communications Society membership to new members. It is a great value --- "IEEE Membership at Half Price +Free ComSoc" together.

"Join IEEE at half price between now and 15 August, get Free membership to IEEE Communications Society" is in effect now, and the 2011 membership benefits start immediately through 31 December. The sooner we can promote, the earlier the new members can enjoy member benefits. So please contact your friends and colleagues and encourage them to consider this opportunity.

http://www.comsoc.org/newjoinspecial_Chapters

7. Top 5 IEEE Sections Congress 2011 Recommendations

The Primary Section Delegates voted on the IEEE Sections Congress 2011 Recommendations during the Closing Ceremony on Monday, 22 August. The following are the top 5 recommendations:

1. IEEE to develop a comprehensive long-term strategy to increase the number of next generation

- youth pursuing science and engineering careers.

2. As members maintain their IEEE membership over their years, IEEE must reward them for their loyalty.

Rewards ought to be tangible and useful and can be done simply and inexpensively. Create Global Fidelity Programs including: (a) Continue membership Recognition 5-10-15-20 years of membership (b) Bonus for specific Benefits (e.g., reduced fee, IEEE merchandise, etc).

3. IEEE membership (including e-Membership) should include a Society membership as part of the basic membership fee.
4. Increased support to students in technical activities with grants to attend conferences and organization of technical competitions.
5. To encourage interest in pre-university students in engineering careers, IEEE to publish a subscription periodical (paper or electronic) targeted to high school students that highlights engineering activities of interest to those students. The periodical should also have articles promoting the benefits of an engineering career and what the students can do in college to get involved with IEEE.

8. Call for Nominations for 2011 MGA Awards: Recognizing outstanding volunteers

You can help recognize the efforts of outstanding volunteers by nominating individuals for one of the prestigious Member and Geographic Activities (MGA) Awards. Each award has a unique mission and criteria and offers the opportunity to honor distinguished colleagues, inspiring teachers, and corporate leaders.

If you know someone who has made substantial regional contributions through innovative projects, exemplary leadership, service, or by fulfilling the goals as related to transnational activities, consider nominating them for one of the following awards:

- MGA Larry K. Wilson Transnational Award
- MGA Innovation Award
- MGA Leadership Award
- MGA Achievement Award
- MGA GOLD (Graduates of the Last Decade) Achievement Award

Please complete the Online Award Nomination (http://www.ieee.org/societies_communities/geo_activities/awards/recipients/nomform_award.html).

The deadline for nominations is 15 October 2011.

C. Non-IEEE News and Events/Announcements

1. Workshop on Antennas and Propagation that will be held in Montreal (31/August/2011)

This event is the fourth Thematic Workshop of the Centre de Recherche En Electronique Radiofréquence

(CREER) [www.creer-quebec.org].

During this half-day Workshop, professors-researchers present their research activities on leaky wave antennas, relectarray antennas, EBG antennas, Dielectric Resonator Antennas, Polarizers, CPSS, and UWB antennas. More information available on the following link:
http://www.creer.polymtl.ca/documents/Workshop_Antennas_Propag_31_august_2011.pdf

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D. Manage Your Newsletter Subscription:

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<http://ewh.ieee.org/enotice/options.php?SN=Abdo&LN=SECTION> 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

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