

Joint Communications

**All-Optical Network
for Kurdistan of Iraq**

20 OCT

Mahmud Wasfi
Monday 17 November 630pm
Room 1750, Bldg SW3, BCIT, Burnaby

Kurdistan is situated in the North-East of Iraq, most its area is mountainous with an area of about 100,000 Km² and of about 4 million population. With existing and under construction 132 KV transmission lines, it is expected that the total line length will be about 2,500 Km with 38 substations at the end of 2009. According to the design of this project, all 132 KV lines will have optical power ground wires OPGW over the transmission lines, replacing the

earth wires. Already most of the lines have these OPGWs. These OPGWs have 24 optical fibers type single mode according to ITU-G-655 (with average attenuation of 0.25 dB/Km and spectral dispersion of 3.5 ps/nm/Km at 1550 nm wavelength). Out of the 24 fibers, 6 shall be allocated to the Ministry of Electricity services and the rest to be rented to the Ministry of Communication or to private sectors to be used to connect initially three main towns where passive optical network PON to be built to provide fiber to the home FTTH. Out of the six fibers, two shall be in working condition, two as hot standby and two for future expansion. Six wavelengths shall be used, based on coarse wavelength division multiplexing with a speed of 10 Gb/s (STM-64) on two wavelengths.

The aim of this project is to keep the signal in the optical domain all the way through out the network. All 132 KV substations shall act as nodes in the network including two hydropower generating stations and three gas power generating stations. Offices belonging to the ministry, two in each of the three governorates which are: Erbil, Sulaymania and Dohuk shall be connected to the network with triple play

facility, that is video, data and voice. Remoteterminal units RTUs in all 132 KV substations and generating stations shall be connected to the network to be monitored and controlled by a regional control center to be built through another tender. The RTUs are to be connected through an Ethernet protocol with smart programming and not through time division multiplexing TDM. Existing circuit breakers CBs are connected through power line carrier PLC for tripping purposes. In this project these CBs are to be tripped through optical fibers, if that is technically feasible right now, if not, they shall be left as they are. Some of the 132 KV lines were subjected to theft, these lines are to be fitted with infra red cameras IRCa's, each with 4 Km vision. Two such IRCa's on towers separated by 8 Km, looking into opposed directions with remote control to follow up the movements of the thieves. These cameras are to be connected to the Ethernet Protocol on optical bases without using TDM. Once the regional control center notices movement of thieves, a command signal can be sent to military or police helicopter center to deal with situation with the possibility to send the actual online pictures.

Speaker: Mahmud Wasfi was born in Baghdad. He received the B.Sc in electrical and electronic engineering from Manchester University in England in 1957, and M.Sc from Birmingham University in England in 1970. In 1960, he joined Iraqi Airforce; was a teacher in Radar and Radio Institute from 1960 to 1963, and was commander of Radar and Radio Maintenance Unit 1964 to 1967, Chief Signal Officer from 1970 to 1973, during this time he was also Project Manager of Western Coaxial Cable Project 1970-1972. He was then loaned to The Ministry of Communication as Coaxial Cable Projects Manager 1973-1978. In 1978 he was transferred to State Organization of Electricity as head of Control and Communication Department until 1988. He worked as manager in Prestige Engineering Co. which is specialized in consultation, acceptance tests, design and import of test equipments and other specialized electrical parts 1992-2007. He holds twelve patents all in optical fiber as sensor, and participated in more than fifty conferences.

Info: Alon Newton anewton@ieee.org

Product Safety and Reliability

Six-Sigma Demystified

20 OCT

Brian Amouzegar
Thursday 13 November 630 - 800pm
Room 1025, Bldg SW1, BCIT, Burnaby

Businesses are increasingly finding enormous benefits in adopting the Six-sigma methodology to improve on their existing processes or to design new ones. Whether it is a main production process or a supporting business process, Six-sigma offers a logical approach that progressively treats a process or facilitates building a new one. Lean and Six-sigma are not mutually exclusive approaches to continuous improvement. Brian will present Six-sigma in its big-picture format but also delve into the application of some of its powerful techniques depending on the audiences' interest. Finally, a brief comparison between Lean and Six-sigma, and how the two can complement each other, will conclude the session.

Speaker: Mr. Amouzegar has over 25 years of diverse experience in cross-functional leadership and industrial projects. His industry exposure includes sectors from Automotive to Aviation and from Pulp & paper to Construction. Brian provides carefully tailored blends of consulting, training and transitional coaching services. He strongly believes that a balanced mix of these three elements is essential to building sustainable capabilities into any business operation aspiring to achieve optimal value stream alignment, increasing customer delight, lasting competitive edge and continues bottom line improvement. These all lead to a state of "business excellence". He holds a Master of Science degree in Industrial Engineering, is a senior member of the American Society for Quality and have a Six-sigma Black Belt and is a Certified Quality Engineer from ASQ. He is also a member of the Project Management Institute and holds the Project Management Professional (PMP) designation. Teaching is a rewarding experience to Brian. As such, he consistently assigns a portion of his time to presenting courses directly related to his field of consulting. He has taught project, operation, product, and quality management courses at local and international universities and colleges.

Sponsors: Product Safety /Reliability and Professional Communications joint event.
Info: Steven McClain stevenmcclain@ieee.org; Kouros Goodarzi krs@ieee.org (Please rsvp)

Industry Applications

**Tour of Powertech's
Hydrogen Technology Facility**

20 OCT

Friday 14 November 100-300pm
12388 - 88th Avenue, Surrey, BC

Powertech Labs Inc. is a wholly owned subsidiary of BC Hydro, and is recognized internationally for its expertise in testing compressed hydrogen fuel storage systems used on-board vehicles, and for its design and operation of hydrogen fill stations and fuel delivery systems. Powertech Labs' Hydrogen & CNG group provides compressed natural gas and compressed hydrogen system design verification for the automotive industry as well as certification testing of hydrogen and CNG cylinders and components to all major standards.



Powertech is recognized by the federal government as an Independent Inspection Agency and by international regulatory and certification agencies worldwide including France (DRIRE), Japan (KHK), and Argentina (ENARGAS). Of special note, the Hydrogen Highway™ initiative for the 2010 Winter Olympics is a large-scale demonstration and deployment program intended to accelerate the commercialization of hydrogen and fuel cell technologies. In parallel to the transportation sector, Powertech Labs is pursuing a number of alternative energy projects. A key initiative titled "Hydrogen Assisted Renewable Power (HARP)" will explore the technical and commercial feasibility of using a hydrogen energy system to help serve remote communities in BC. This project located in a non-integrated community, Bella Coola, would generate hydrogen using an electrolyser at times when there is a surplus of renewably generated electricity at BC Hydro's Clayton Falls generating station. The hydrogen fuel will be stored to generate electricity using a fuel cell during times of peak demand. For more information please visit: www.powertechlabs.com.

Pre-registration is required. Space is limited, so please register early.
Sponsors: Vancouver IAS/PES Joint Event
Info: Information & registration, Jahangir Khan Jahangir.khan@powertechlabs.com.

Institute for Computing, Information & Cognitive Systems 20 OCT
Distinguished Lecture Series

**Brain on a Chip:
If We Build One, What Will It Say?**
Bruce C Wheeler, University of Illinois
Thursday 23 October 330-450pm
Room 310 Hugh Dempster Pavilion, UBC

The wild idea that nerve cells grown in culture could have reliable computational function, while still a wild idea, is closer to reality than we might expect, thanks to applications of both engineering and applied biology. The combination of electronics, microolithography, materials science, neuroscience and advanced culturing techniques make possible the controlled growth, recording, and stimulation of nerve cells in a dish.



What these neurons might be saying—their patterns of recorded electrical activity—is now gaining considerable attention as neural engineers struggle with data that is inherently very high dimensional and decidedly non-linear and non-stationary. This lecture will highlight the technologies that make possible designable "brains on chips," followed by both review and speculation as to how to interpret the signals in order to understand how neural information is being coded.

Speaker: Bruce Wheeler will become a Professor of Biomedical Engineering at the University of Florida this fall. He has been a Professor at the University of Illinois in the Bioengineering Department, (which he founded and where he was Interim Head), the ECE Department (Associate Head), the Neuroscience Program (Chair of Program), and the Beckman Institute. He is a Fellow of the IEEE and the AIMBE, and serves as Editor-in-Chief of the IEEE Transactions on Biomedical Engineering. He received his BS degree from MIT and MS and PhD degrees in Electrical Engineering from Cornell. His research interests lie in the application of electrical engineering methodologies, including signal processing and microfabrication, to the study of in vitro nervous systems in order to better understand the behavior of small populations of neurons and, ultimately, the functioning of the brain.

Info: 604.822.6894 or info@icics.ubc.ca

**Autonomously Semantifying
Wikipedia**

Dan Weld, University of Washington
Thursday 20 November 330-450pm
Room 310 Hugh Dempster Pavilion, UBC

Berners-Lee's vision of the Semantic Web is hindered by a chicken-and-egg problem: how can one create enough structured data to motivate the development of applications? We argue that this bootstrapping problem is best solved by autonomously "Semantifying Wikipedia." We choose Wikipedia as an initial data source, because it is comprehensive, high-quality, and contains enough manually derived structure to bootstrap an autonomous, self-supervised



process. We identify several types of structures that can be automatically enhanced in Wikipedia (e.g., link structure, taxonomic data, infoboxes, etc.), and we describe Kylin, a self-supervised, machine learning system that extracts facts from Wikipedia natural-language text and organizes them into an automatically induced taxonomic representation. Experiments show that Kylin has both high precision and recall—in one case equaling that of humans.

Speaker: Daniel S. Weld is the Thomas J. Cable / WRF Professor of Computer Science and Engineering at the University of Washington. He received bachelor's degrees in both Computer Science and Biochemistry at Yale University in 1982, and a PhD from the MIT Artificial Intelligence Lab in 1988. He received a Presidential Young Investigator's award in 1989 and an Office of Naval Research Young Investigator's award in 1990, and was named an AAAI Fellow in 1999 and an ACM Fellow in 2005. In addition, Weld is Venture Partner at the Madrona Venture Group and an active entrepreneur, having co-founded Netbot Incorporated (creator of Jango Shopping Search, acquired by Excite), AdRelevance (acquired by Media Metrix), and Nimble Technology (acquired by Actuate).

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Attacking Information Overload in Software Development

Dr. Gail Murphy, UBC

Wednesday 19 November 600pm
Room C100 UBC downtown 800 Robson

The productivity of software developers is continually degrading due to an inundation of information: source code is easier and easier to traverse and to find, email inboxes are stuffed to capacity, RSS feeds provide a continual stream of technology updates, and so on.



To enable software developers to work more effectively, tools are often introduced that provide even more information. The effect of more and more tools producing more and more information is placing developers into overload. To combat this overload, we have been building approaches rooted in structure and inspired by human memory models.

As an example, the Mylyn project packages and makes available the structure that emerges from how a programmer works in an episodic-memory inspired interface. Programmers working with Mylyn see only the information they need for a task and can recall past task information with a simple click. We have shown in a field study that Mylyn makes programmers more productive; the half a million programmers now using Mylyn seem to agree. In this talk, I will describe the overload faced by programmers today and discuss several approaches we have developed to attack the problem, some of which may also pertain beyond the domain of software development.

Speaker: Gail Murphy is a Professor in the Department of Computer Science at the University of British Columbia after receiving a B.Sc. from the University of Alberta, an M.S. and Ph.D. from the University of Washington and working for 5 years as a software developer. She works primarily on building simpler and more effective tools to help developers manage software evolution tasks. In 2005, she held a UBC Killam Research Fellowship and also received the AITO Dahl-Nygaard Junior Prize for her work in software evolution. In 2006 she received an NSERC Steacie Fellowship and the CRA-W Anita Borg Early Career Award. In 2007, she helped co-found Tasktop Technologies Inc. In 2008, she served as the program committee chair for the ACM

neering Diamond Early Career Award. One of

Biomimetics - New Paradigms For (Space) Robot Design

Dr. Carlo Menon, SFU

Friday 14 November 1400-1500
E&CE, 2332 Main Mall - Kaiser 2020, UBC

The success of biological organisms in solving problems encountered in their environments is attributed to the process of natural selection, whose primary metric is survival. Such biological solutions offer insights into alternative strategies for designing engineering robotic systems. Looking at nature, engineers can find a huge database of biologically-inspired solutions to problems. There is thus much that engineers can learn from biology and emulate in their design of engineering systems - this discipline is called 'biomimetics'. Biomimetics involves 'reverse engineering' the principles of evolutionary design of biological organisms in order to implement biological solutions to general engineering problems. The problems encountered by biological systems are similar in many respects to those encountered in engineered systems. It seems appropriate therefore to examine biological solutions in order to analyse engineering issues. Research efforts in this direction have recently become significant in interdisciplinary-engineering areas as robotics. In this talk, motivation and potential benefits of a bio-inspired approach are addressed and the first attempts to define a new biomimetic methodology for robotic design are investigated through the analysis of novel bio-inspired space robotic projects.



Speaker: Carlo Menon received the Laurea degree in Mechanical Engineering from the University of Padua, Italy, in 2001, and Ph.D. degree in Space Sciences and Technologies from the Center of Studies and Activities for Space - "G. Colombo", Padua, Italy, in 2005. He was visiting scholar in the Nanorobotics laboratory at Carnegie Mellon University, Pittsburgh, USA, in 2004, and Research Fellow in the Advanced Concepts Team of the European Space Agency (ESA), Noordwijk, The Netherlands, in 2005 and 2006. He has been

SIGSOFT FSE conference and received the University of Washington College of Engineering Diamond Early Career Award. One of

the most rewarding parts of her career has been collaborating with many very talented graduate and undergraduate students.

Propagating Combustion Faults on Printed Wiring Boards

Gary Tornquist, Microsoft

Friday 28 November 630-800pm
Room 1025 Building SW1, BCIT Burnaby

This insidious type of fault can move along power traces on PCB's combusting the epoxy material along the way. This paper develops a basic thermal-electric model of the fault to explain feedback involved in the faults movement. The main inputs to the model, the electrical source energy and trace geometries are explored. From this understanding, appropriate design safeguards are qualitatively suggested.

Speaker: Mr. Tornquist is the Director of Product Safety at Microsoft Corp. in Redmond WA. A charter member of the IEEE PSES, he is currently co-chair of the technical presentations committee. He is a member of the US Technical Advisory Group TC108 developing the IEC 62368 safety standard for IT and consumer electronics. Previously he worked at several other electronic firms including the Hewlett Packard Co. and Hughes Aircraft Corp. in a variety of roles including the design of switch mode power supplies. His outside interests include Toastmasters and being the Cub Master of his son's scout pack. Mr. Tornquist holds several degrees including BS Eng with honors from the California Institute of Technology and MSEE from the University of California at Los Angeles.

Attendance is free but please take a moment to RSVP. Before the presentation, feel free to network. Light refreshment is planned.

Info: stevenmcclain@ieee.org

an Assistant Professor at the School of Engineering Science at Simon Fraser University (SFU), Burnaby, Canada, since 2007 and an associate member of the School of Kinesiology at SFU since 2008. He started up the MEchatronics 'N' Robotics for Viable Applications (MENRVA) group at SFU in 2007. Dr. Menon received the international IAF Luigi G. Napolitano Award for the Advancement of the Aerospace Sciences, Valencia, Spain, in 2006, and the international BIONIS Award on Biomimetics, Bath, UK, in 2007. He has been in the editorial board of the Journal of Bionic Engineering, Elsevier, since 2007. He is an AIAA, IEEE, ASME, BIONIS, and IAF member.

Info: CS Chair Ryoza Nagamune, nagamune@mech.ubc.ca

cer therapy, subcutaneous slow releasing systems for systemic therapies, and controlled growth-factor release for digit and limb regeneration.

UBC Biomedical Engineering Grand Rounds/IEEE Technical Seminars

Micro- and Nano-Particle Engineering: Materials for Drug Delivery

David Needham
Duke University

Monday 17 November 1200 - 100pm
Rm 101 - Chemical & Biological Engineering Building, 2360 East Mall, UBC

Invented in 1996, the temperature-sensitive liposome, is now in phase 1 human clinical trials. This presentation will initially review earlier work on liposomes in general, and will present new data that shows unexpected mechanistic features that make this nanoscale triggered release system an emerging new paradigm for drug delivery technology. Although liposomes are the quintessential drug delivery vehicle, and have led the way in developing actual therapeutic interventions as well as imaging modalities, other micro and nano systems are emerging in the drug delivery field.



As we start to look for new ways to create lipid-coated micro and nanoparticles, we might first explore ways to even create particles in controlled ways, and moreover, develop techniques that allow us to manipulate and observe directly microparticle formation. These kinds of studies utilizing the micropipette technique provide direct experimental measurement of single particle history from liquid solution to microcrystallization, amorphous glass formation, or solidification from polymer solution. Models can be tested in infinite dilution (i.e., for a single droplet or particle). Born out of materials engineering-design approach, the rest of the presentation will focus on recent work that explores experiment and theory associated with 2-phase micro-systems of gas in liquid, liquid in liquid (O/W, W/O) and solid crystal and amorphous solidification from liquid solution. Eventual applications are in preserving proteins as microglassified beads for storage, transport and formulation, antibiotics for bone surgery, new targeted drug-nanoparticles for ant-cancer

How CADTH Informs Healthcare Policy: Using Evidence to Support Decisions

Dr. Tammy Clifford
HTA/CADTH

Monday 24 November 1200 - 100pm
Rm 101 - Chemical & Biological Engineering Building, 2360 East Mall, UBC

This presentation will provide an overview of the Canadian Agency for Drugs and Technologies in Health (CADTH) and in-depth discussion of how CADTH's Health Technology Assessment (HTA) program uses



evidence to evaluate the clinical effectiveness, cost-effectiveness and broader implications of drugs and other health technologies. The talk will clarify the roles of the many players involved in the market approval, evaluation, adoption, reimbursement, and continued evaluation of health technologies. The presentation will conclude with a discussion of the future role of HTA, as well noting opportunities for involvement with HTA work in Canada.

Speaker: Dr. Clifford also holds faculty appointments in Pediatrics and in Epidemiology and Community Medicine at the University of Ottawa, where she teaches in the problem-based learning modules for the undergraduate medical education curriculum and also serves as a thesis examiner for the Masters in Epidemiology program. Dr. Clifford received her PhD in Epidemiology and Biostatistics from the University of Western Ontario and both her BSc and MSc(A) from McGill University in Montréal. Dr. Clifford's particular fields of interest relate to the methodological underpinnings of systematic reviews and

meta-analyses as well as the editorial peer review process. She remains involved in pediatric research through collaboration with colleagues at the Children's Hospital of Eastern Ontario (CHEO). She also serves as a scientific community member on CHEO's Research Ethics Board. Dr. Clifford is involved with a number of organizations including the International Network of Agencies for Health Technology Assessment (INAHTA), the International Society for Pharmacoeconomics and Outcomes Research (ISPOR), EuroScan, and Health Technology Assessment International (HTAi). She serves as Chair of the Scientific and Professional Programmes Committee for HTAi and as an editorial board member for HTAi's journal, the International Journal of Technology Assessment in Health Care

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Agile Deconstructed

Steven Fraser
CISCO Research
Monday 27 October 600pm
Sophos, 500 Granville, Vancouver

"Best" really depends on context – and this introduction to software "best" practices will focus on the evaluation and integration of the practices that constitute many of today's "Agile" methods.



One of the interesting observations made by members of the software community is that "what is old – is new again" when it comes to Agile. Another observation is that "best" is not universally applicable and

boundary conditions do apply – due to variations in customers, competition, context, culture, tools, scale and scope - of the systems developed.

This talk – intended for researchers, practitioners, managers and educators and does not require any specific programming knowledge – has evolved over the past three years and is based on experience gleaned at several multinational organizations developing large software systems.

Speaker: Steven Fraser joined Cisco Research in July 2007 in San Jose, California as a Director (Engineering) where he is responsible for the Cisco Research Center. Previously, Steven was a senior staff member of Qualcomm's Learning Center in San Diego, California with responsibilities for technical learning. Steven held a variety of technology management roles at BNR and Nortel including: Process Architect, Senior Manager, Design Process Engineering Advisor, and Software Reuse Program Prime in BNR's Computing Research Lab (CRL).

Fraser holds a doctorate in Electrical Engineering (software specification validation) from McGill University in Montreal - and is a member of the ACM and a senior member of the IEEE.

Brian Avent - 20 OCT PES Outstanding Engineer

At the 2008 IEEE Vancouver AGM the PES Outstanding Engineer Award was awarded to Brian Avent for "A Life of Contributions to the



Reliability and Security of the Power System Through Careful Selections of Station Technology and Planning of Installations"

Brian graduated from UBC in 1967 and has been working on various aspects of BC Hydro's substations for almost 41 years. He started in Protection Design, moved to Protection Planning within the System

Planning function and then moved to work on various aspects of station equipment and station planning.

Over that time he has worked on a range of projects from remote site diesels rated as small as 75 kW to major generating stations rated at 100's of MW and from 4 kV distribution circuits to major 500kV system expansion. His work has covered the range of projects from AC to HVDC as well as modern power electronic system compensation equipment referred to as Flexible AC Transmission Systems (FACTS). Brian is presently retired but working as a contractor for BC Hydro' Engineering organization as an advisor to younger associates.

Brian Avent is a BC native having been born on Vancouver Island. His family has been here in BC for over 110 years.

The Outstanding Engineer Award was established in 1994 by the PES Executive Board to recognize outstanding technical, professional and society contributions on behalf of the power engineer profession.



HISTORIC MILESTONES IN THE IEEE

IEEE members have been reminded lately of many milestones related to the history of IEEE, both in Canada and around the world.

Firstly, IEEE itself has been promoting its upcoming 125th anniversary, to be officially marked 13 May 2009. For a look at the IEEE anniversary plans, and a glimpse of some of the milestones associated with IEEE, please visit: <http://www.ieee125.org>

Recently at Sections Congress 2008, an IEEE history initiative was launched - the IEEE Global History Network (GHN), a new open-content portal developed by the IEEE History Center. It is expected that much historical information related to the IEEE will be collected there. Read more about this initiative at: http://www.ieee.org/web/aboutus/history_center/

Secondly, IEEE Canada is currently celebrating its 25th anniversary, and a new booklet has been published to demonstrate some of the highlights. Aside from IEEE Canada, the history and milestones of our predecessor organizations in Canada (AIEE, IEEE, CSECE, IEC and IRE) go back to at least 1903! An online link to the booklet and other IEEE (Canadian) historic info is available at: <http://www.ieee.ca/history/index.html>

Finally, your IEEE Vancouver Section will be marking its own 100th anniversary in the year 2011! The Section is preparing to mark our centennial with appropriate flair. Volunteers are needed - we need *your* help in locating archives and collecting materials, artifacts, anecdotes, and achievements from the electrical engineers living and working in BC over the last century.

If you have material relating to the history of the IEEE Vancouver Section, or electrical engineering in BC, or wish to get involved in organizing our centennial initiatives, please contact: Shail Mahanti, PEng 604-836-8075 or smahanti@cobaltengineering.com

IEEE Vancouver Annual Social

Thursday 06 November
700pm - open bar networking,
then dinner around 730 with
atmosphere, live music

Enjoy a drink, mingle, and meet and greet colleagues before dinner
Later, you can take a pleasant stroll along the Quay (so romantic), or just kick back and relax, or check out the scene at a nearby pub and casino - and there's often live music along the quay.

\$30/ea for members, companions
\$15/ea for executives, students and life members
Includes dinner, free drink and all you can dance.
Cash or cheque payments are accepted.

Check back here or visit the Section website, www.ieee.ca/vancouver, for more details nearer the event.
To register e-mail agm2008@telus.net or call: Florin Lungu: 604-233-7607

Unit 200, 810 Quayside Drive, New Westminster
<http://www.lagunablucanada.com>

It is right across the road from the New Westminster Skytrain station (walkway over railway).
Parking on both East and West sides of the public market public

The IEEE PES Vancouver Chapter invites you to IEEE Power & Energy Society Annual Banquet

Wednesday 26 November 2008
Hyatt Regency Hotel
655 Burrard Street, Vancouver, BC

A great time to enjoy wonderful food, relax with colleagues,
and enjoy a light-hearted presentation.

\$25 for Students, PES members, Life Members, and Executives
\$35 for IEEE members and spouses
\$45 for non-members

More details available shortly

For additional information and registration please contact
PES Chapter Chair Glen Tang
glen.tang@bchydro.com

You are invited to the
Laguna Blu Restaurant
at New Westminster Quay
A great Italian restaurant

- Excellent food
- View of boats & river activity
- Live music
- Open dance floor

Official IEEE Group forms in LinkedIn

For those IEEE members using LinkedIn, a new Group has been formed which might be of interest. LinkedIn is a professional networking website/service, where individuals post their professional profiles and establish "connections" with colleagues. The new LinkedIn Group is called "The Official IEEE Group", and all IEEE members are welcome to join.

For more information about The Official IEEE Group, and the LinkedIn service, please visit: <http://www.linkedin.com/e/gis/23804>.

Please note that while IEEE membership is confirmed for all member joining this LinkedIn Group, the IEEE itself is not involved in the organization, operation or content of the LinkedIn service.