Ontario

MINISTRY OF RESEARCH & INNOVATION

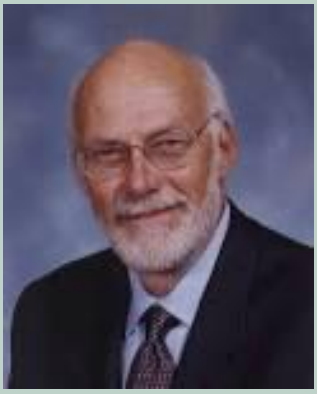
Ontario Research Fund-Research Excellence
Round 7

Information and Communication Technologies & Digital Media (ICT&DM)

Peer Review Panellists

Biographies

BRIAN UNGER
UNIVERSITY OF CALGARY
ICT-DM CHAIR



Department of Computer Science
University of Calgary
2500 University Dr. NW
Calgary, Alberta Canada T2N 1N4

Tel: (403) 400-3371
unger@ucalgary.ca

Brian Unger is President and CEO of the River Run Collaboratory Ltd and Professor Emeritus, Computer Science, at the University of Calgary, Alberta. He currently is also a member of several Boards including Plannet Inc. and a Cambodian NGO, KITD (Khmer ICT Development). He was the founding President and CEO of iCORE, the "informatics Circle of Research Excellence", from 1999 though 2005 (now iCORE is incorporated within Alberta Innovates Technology Futures). iCORE was a not-for-profit corporation that funded research in the information and communication sciences at Alberta universities. Under his leadership, iCORE funded 17 Chairs and Professors whose research teams in 2005 included over 500 faculty, post doctoral fellows, research staff and graduate students working in targeted areas within the communication networks, nano-informatics, and intelligent software systems areas.

Dr. Unger was the founding president of Netera Alliance, now Cybera Inc., a research consortium aimed at advanced computing and networking, and was the founding Board Chair of C3.ca, now Compute Canada, a consortium of over 30 universities, corporations and government agencies that is aimed at building Canada's infrastructure in high performance computation. He was the founder of Jade Simulations International, a private for-profit corporation, and served as its President and CEO for five years, from 1988 until returning to the university in 1993.

Dr. Unger was named a Canada Pioneer of Computing at the IBM CASCON conference, Toronto, October, 2005, and received the IWAY Public Leadership award for outstanding contributions to Canada's information society in 2004, and the 1993 ASTech award for "Innovation in Alberta Technology" for research in parallel simulation and distributed computation.

PIERRE BOULANGER
UNIVERSITY OF ALBERTA

Department of Computing Science
University of Alberta
Athabasca Hall, Room 411
Edmonton, Alberta
T6G 2E8, Canada

Tel: (780) 492-3031
pierreb@ualberta.ca

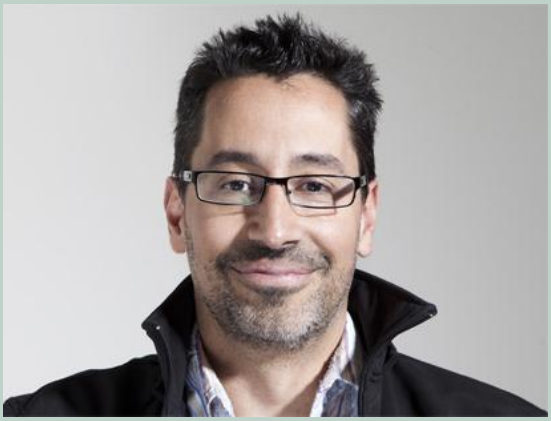
Dr. Boulanger cumulates more than 30 years of experience in 3D computer vision, rapid product development, and the applications of virtual reality systems to medicine and industrial manufacturing. Dr. Boulanger worked for 18 years at the National Research Council of Canada as a senior research officer where his primary research interest was in 3D computer vision, rapid product development, and virtualized reality systems. He now has a double appointment as a professor at the University of Alberta Department of Computing Science and at the Department of Radiology and Diagnostic Imaging. He is currently the Director of the Advanced Man Machine Interface Laboratory (AMMI) as well as the Scientific Director of the SERVIER Virtual Cardiac Centre. In 2013, Dr. Boulanger was awarded the CISCO chair in healthcare solutions, a 10-year investment by CISCO systems in the development of new IT technologies for healthcare in Canada.

His main research topics are on the development of new techniques for tele-medicine, patient specific modelling using sensor fusion, and the application of tele-presence technologies to medical training, simulation, and collaborative diagnostics. His work has contributed to gain an international recognition in this field, publishing more than 280 scientific papers and collaborating with more than 20 universities, research labs, and industrial companies across the world. He is on the editorial board of two major academic journals. Dr. Boulanger is also on many international committees and frequently gives lectures on computational medicine and augmented reality systems. He is also the president of PROTEUS Consulting Inc. a Canadian-based consulting firm specialized in visual simulation applications.

TOMÁS DORTA,
UNIVERSITÉ DE MONTRÉAL

Faculté de l'aménagement
École de design industriel
Université de Montréal
Bureau 1011
C.P. 6128, succursale Centre-ville
Montréal QC H3C 3J7

Tél.: (514) 343-6111 x 5010
tomas.dorta@umontreal.ca



Tomás Dorta has a background as a practitioner architect and designer. His research interests include the design process and co-design using new technologies and the development of new techniques and devices of design in the virtual realm. He obtained his Ph.D. (2001), studying the impact of virtual reality as a visualization tool into the design process. His research has been extensively funded by Canadian's federal and provincial research grant institutes and published and presented in several international scientific conferences as well as scientific journals. As a design educator, Tomás Dorta joined the School of Design of Université de Montréal in 1997 where he is now associate professor. He teaches design research and computer graphics courses and industrial design studios related to new technologies, design collaboration and bionics. Tomás Dorta is the director of the Design research laboratory Hybridlab.

RANDY GOEBEL
UNIVERSITY OF ALBERTA

Department of Computing Science
2-21 Athabasca Hall
University of Alberta
Edmonton, Alberta T6G 2H1
Tel: (780) 492-2683

goebel@cs.ualberta.ca
www: http://www.cs.ualberta.ca/~goebel

R.G. (Randy) Goebel is Professor of Computing Science at the University of Alberta, in Edmonton, Alberta, Canada, and a principle investigator in the Alberta Innovates Centre for Machine Learning. He is also Chief Scientist of Alberta Innovates Techology Futures, a publicly-funded Alberta research organization that attempts to bridge the innovation gap between basic and applied research.

He holds B.Sc., M.Sc. and Ph.D. degrees in computer science from the University of Regina, Alberta, and British Columbia, and has had faculty appointments at the Unviersity of Waterloo, University of Tokyo, Multimedia University (Malaysia), Hokkaido University, and has worked at a variety of research institutes around the world, including DFKI (Germany), NICTA (Australia), and NII (Tokyo).

His research interests include applications of machine learning to systems biology, visualization, and web mining, as well as work on natural language processing, web semantics, and belief revision. He has experience working on industrial research projects in crew scheduling, pipeline scheduling, and steel mill scheduling, as well as scheduling and optimization projects for the energy industry in Alberta.

PAUL HOFFERT, CM, LLD
UNIVERSITY OF TORONTO

Tel: (416) 781-4191
Mobile: (647) 435-4191
polibop@paulhoffert.ca

Dr. Paul Hoffert is Professor of Law, Information, and Music at University, of Toronto, Chair of the Bell Fund, Chair of the Screen Composers Guild of Canada, and President of the Glenn Gould Foundation. He is a former Faculty Fellow at Harvard University and the Berkman Centre for Internet and Society, Professor of Music, Film, and Digital Media at York University, President of the Academy of Canadian Media (formerly Cinema and Television), and Chair of the Ontario Arts Council.

By the time he was twenty-six, Mr. Hoffert was an established jazz recording artist, television performer, off-Broadway musical author, film composer, and had studied mathematics and physics at the University of Toronto. That year (1969) he founded Lighthouse, an orchestral rock band that sold millions of records, toured the world and earned three Juno Awards as Canada's # 1 pop band (1971-1973). He was inducted into the Canadian Rock and Roll Hall of Fame in 1995.

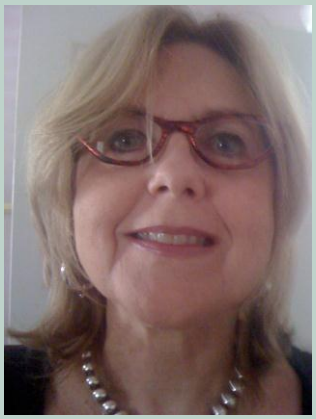
Hoffert has parallel achievements in science and technology. He was a researcher at the National Research Council of Canada in the early 1970s and in 1992, he founded CulTech Research Centre at York University, where he developed advanced new media such as video telephones and networked distribution of CD-ROMs. From 1994 to 1999, he directed Intercom Ontario, a $100 million trial of the world's first broadband-connected community that landed him on the cover of the Financial Post and in the Wall Street Journal

He received the Pixel award in 2001 as Canada's New Media Visionary. In 2001 he received the Pixel award as the new media industry's "Visionary of the Year". He was awarded the Order of Canada in 2004.

He is the author of best-selling books about the Information Age and a textbook about composing music for videogames and websites.

Hoffert is known for expecting the unexpected. The Financial Post described him as one of the New Mandarins along with Bill Gates and The Toronto Star noted that "Paul Hoffert is the ideal visionary for the Digital Age".

GALE MOORE, PHD [RETIRED]
UNIVERSITY OF TORONTO



Senior Fellow & former Director, KMDI (2003-2008)
Former Member, Graduate faculty, Dept. of Sociology
Founding member of the Tri-campus Scholarly Communication Group

Tel: 416-988-1141
Email: gale.moore@utoronto.ca

Gale Moore is a founding member of the University of Toronto's Knowledge Media Design Institute (KMDI) that has engaged in a broad range of digital media research and postgraduate education since 1995. She was the director from 2003-2008. From 2004-2007 Moore led KMDI's successful Project Open Source|Open Access and in 2005 KMDI was honoured as a Toronto innovator in the field of information as part of the Massive Change exhibit at the Art Gallery of Ontario.

As a sociologist Moore's research has been on understanding collaboration as a nexus of people, practice and technology, and on the nature of innovation in the 21st C organization. A focus has been on the significance of transdisciplinarity as a form of knowledge production that enhances creativity and fosters the innovation so critical for institutional innovation in the contemporary university.

As a sociologist-designer Moore has engaged in research on the design and development of new media environments, including the Ontario Telepresence Project (1992-1995) - a $6M industry-university cross-disciplinary consortium supported by the Province of Ontario and a number of firms and corporations - where she led the social science research. Moore is a co-inventor of KMDI's ePresence system, one of the earliest interactive webcasting, archiving and media production technologies. Her design philosophy is human-centered with a focus is on bringing an understanding of peoples' experiences and practices into the design of technical artefacts.

Moore's research has been funded by SSHRC, CITO, Bell University Laboratories, IBMCAS, and other government and industry partners. In
2008 was a Visiting Professor in design at the graduate business school of Tecnológico de Monterrey in Mexico City.

HAUSI MÜLLER
UNIVERSITY OF VICTORIA

Engineering/Computer Science Building (ECS), ECS 504
University of Victoria
P.O. Box 3055, STN CSC, Victoria, BC V8W 3P6 Canada

Tel: (250) 472-5719
hausi@cs.uvic.ca
hausimuller@gmail.com

Dr. Hausi Müller is a Professor, Department of Computer Science and Associate Dean of Research, Faculty of Engineering at University of Victoria, British Columbia. He is a Professional Engineer (PEng) registered with APEGBC. He was the founding Director of BSEng, a CEAB accredited Bachelor of Software Engineering degree program in the Faculty of Engineering. He is a Visiting Scientist at the Center for Advanced Studies at the IBM Toronto Laboratory (CAS), CA Canada Inc., and the Carnegie Mellon Software Engineering Institute (SEI). For over a decade he has been a principal investigator and Chair of the Technical Steering Committee of CSER, a Canadian Consortium for Software Engineering Research. In 2006 he received the IBM CAS Faculty Fellow of the Year Award, the CSER Outstanding Leadership Award, and a Stevens Citation for his many contributions to the software reverse engineering community.

He is a principal investigator in the NSERC Strategic Research Network for Smart Applications on Virtual Infrastructure (SAVI), focused on the design of future applications platforms built on a flexible, versatile and evolvable infrastructure that can readily deploy, maintain, and retire the large-scale, possibly short-lived, distributed applications that will be typical in the future applications marketplace. The SAVI partnership involves investigators from nine Canadian universities and 13 companies bringing together expertise in networking, cloud computing, applications, and business.

Dr. Müller's research interests include software engineering, software evolution, self-adaptive and self-managing systems, autonomic computing, monitoring and diagnostics, context-aware systems, service-oriented architecture (SOA), SOA governance, software architecture, software reverse engineering, software reengineering, program understanding, visualization, and software engineering tool evaluation.

Dr. Müller serves on the Editorial Board of Software Maintenance and Evolution and Software Process: Improvement and Practice. He served on the Editorial Board of IEEE Transactions on Software Engineering (TSE) 1994-2000, 2005-2009). He is Chair of the IEEE Technical Council on Software Engineering (TCSE).

Dr. Müller received a Diploma Degree in Electrical Engineering in 1979 from the Swiss Federal Institute of Technology (ETH), Zürich, Switzerland and MSc and PhD degrees in Computer Science in 1984 and 1986 from Rice University in Houston, Texas, USA

.

FRED POPOWICH
SIMON FRASER UNIVERSITY

Office: TASC 9423
School of Computing Science
Simon Fraser University
8888 University Drive
Burnaby, B.C.
Canada V5A 1S6

Phone: (778) 782-4193
Fax: (778) 778-3045
Email: popowich@sfu.ca, fred@jffinnovations.com

Fred Popowich received his PhD in Cognitive Science from the University of Edinburgh in 1989, and since then has been a faculty member in the School of Computing Science at Simon Fraser University. He is the President of the Canadian Network for Visual Analytics (CANVAC) and Director of the Vancouver Institute for Visual Analytics, a joint initiative of Simon Fraser University and the University of British Columbia. He is an Associate Member of the Department of Linguistics, and an Associate Member (and past director) of the Cognitive Science Program. He is currently a member of the Institute for Computing, Information and Cognitive Systems at the University of British Columbia and is on the Management Committee of the Centre for Interdisciplinary Research in the Mathematical and Computational Sciences (IRMACS). He is also an Advisory Committee Member of Ontario's Centre for Innovation in Information Visualization and Data-Driven Design (CIV-DDD).

He is an active in technology commercialization, chaired the committee responsible for Canada's language technology roadmap, and was co-founder, president, COO and then CTO of Axonwave Software. His research is concerned with how computers can be used to process human language, either to make it easier for human beings to interact with computers, or to make it easier for human beings to interact with each other. As such, he has been concerned with how knowledge about language and the world can be represented, maintained, and even learned by computers. Typical real world applications of this research include "smart homes", the automatic translation of language, tools to assist people in learning language, and technology to help people search and manage the information contained on computer systems and networks.

KELLY LYONS
UNIVERSITY OF TORONTO

Instant messaging:Twitter @prof_lyons ; Skype: kelly.lyons310
Website: http://individual.utoronto.ca/klyons/
Blog: http://moving2academia.blogspot.ca/
Room: BL 612

Tel: (416) 946-3839
kelly.lyons@utoronto.ca

Dr. Kelly Lyons is an Associate Professor in the Faculty of Information at the University of Toronto. Prior to joining the Faculty of Information, she was the Program Director of the IBM Toronto Lab Centre for Advanced Studies (CAS). Dr. Lyons obtained a B.Sc., Computing and Information Science at Queen's University, 1985; M.Sc., Computing & Information Science, Queen's, 1989 and Ph.D., Computing and Information Science, Graph Layout Algorithms, Queen's University, 1994.

Her current research interests include service science, social media, and collaborative work. Presently, she is focusing on ways in which social media can support human-to-human interactions in service systems. Dr. Lyons has co-authored a number of papers, served on program committees for conferences, given many keynote and invited presentations, and co-chaired several workshops. She has been the recipient of an NSERC Discovery Grant, an NSERC Collaborative Research and Development Grant with SAP, and an IBM Smarter Planet Faculty Innovation Grant.

Dr. Lyons holds a cross-appointment with the University of Toronto's Department of Computer Science, is a member of the Executive Committee of the University of Toronto's Knowledge Media Design Institute, is an IBM Faculty Fellow, and an SAP Faculty Fellow. From 2008 to 2012, she was a Member-at-Large of the ACM Council. Kelly is very interested in promoting Women in Technology initiatives and has given several presentations to young people and teachers on this topic. She recently co-chaired the Ontario Celebration on Women in Computing (ONCWIC 2011).

EUGENE ROMAN
CANADIAN TIRE CORPORATION

2180 Yonge Street
PO Box 770 Station K
Toronto, ON M4P 2V8
Tel: (416) 480-3000

Eugene Roman has been Chief Technology Officer of Canadian Tire Corp. Ltd. since 2012 and serves as its Senior Vice President of Information Technology. He has prime responsibility for the evolution and operational support of all digital and interactive technologies of the corporation. His mission is to accelerate the deployment and use of next-generation digital platforms to grow corporate revenue and evolve key platforms to support the growing needs of the Company. He believes that the Canadian Tire team of highly skilled technologists are a major competitive advantage in the delivery of systems of engagement and use the best internet technologies available. He sees the future of retail as "etail" where smart technologies create new opportunities for innovation and excellence.

Eugene started his career in telecommunications and has worked for Nortel Networks Corporation, Bell Canada Enterprises Inc., and Open Text Corporation. In progressively senior technology and business roles in Canada, the U.S. and the U.K, Eugene was responsible for integrating critical technology and business processes to better deliver innovative programs. He has also led efforts to increase productivity and improve performance in order to deliver current and ‘next generation’ services more efficiently within a large organization.

Eugene holds a Master’s Degree in Administration, Bachelor’s Degree in Economics, is a Certified Management Accountant, and is a recent graduate of the Institute of Corporate Directors program. He is a frequent speaker on “The Future of Digital Content” and was recently appointed as a Distinguished Senior Fellow at the Munk School of Global Affairs at the University of Toronto, where he will continue his outstanding work in advancing innovation in Canada. He is also an industry professor in Design Engineering at McMaster University.

CAREY WILLIAMSON
UNIVERSITY OF CALGARY

Department of Computer Science
University of Calgary
2500 University Drive NW
Calgary, AB T2N 1N4

Tel: (403) 220-6780
carey at cpsc.ucalgary.ca

Dr. Carey Williamson is a Professor in the Department of Computer Science at the University of Calgary in Calgary, Alberta, Canada. He is part of the Networks Research Group, and is currently serving as Head for the Department of Computer Science.

In general, the Networks Research Group has focused on the design and analysis of networked systems and the communication protocols used within these systems. The types of systems of interest include client-server, peer-to-peer (P2P), multimedia, Internet, Web, wireless, and sensor networks. Research techniques employed include analytic, simulation, and experimental investigations. In many cases, tools are developed to test new algorithms and services, or to capture and analyze network measurement data to better understand existing environments and future ones. Recent projects have included collecting and analyzing Internet traffic from the U of C campus wireless network, classifying Internet traffic by network application, and developing traffic engineering rules for cellular data networks.

From 2006-2011, Dr. Williamson held an iCORE (Informatics Circle of Research Excellence) Chair in Broadband Wireless Networks, Protocols, Applications, and Performance. Prior to that, he held an iCORE Professorship in Broadband Wireless Networks (2001-2006), as well as an NSERC Industrial Research Chair in Wireless Internet Traffic Modeling (2004-2009). iCORE is now known as AITF (Alberta Innovates -- Technology Futures).

Dr. Williamson also participated on two NSERC Strategic Network collaborative research projects: NSERC ISSNet (Internetworked Systems Security Network), which focused on Internet security. This project, led by Professor Paul van Oorschot at Carleton University, ran from 2008-2013; and NSERC SAVI (Smart Applications on Virtual Infrastructure), which focuses on the use of virtualization in network technologies and applications. This project, led by Professor Alberto Leon-Garcia at the University of Toronto, runs from 2011-2016.

Dr. Williamson's general research interests include computer networks and computer systems performance evaluation. More specific interests include Internet technologies, wireless networks, Internet traffic measurement, TCP/IP, Web performance, mobile computing, high speed networking, workload characterization and modeling, and network simulation.

OSMAR ZAIANE
UNIVERSITY OF ALBERTA

Department of Computing Science
University of Alberta
4-43 Athabasca Hall (see Campus map)
Edmonton, Alberta, Canada T6G 2E8
Tel: (780) 492-2860

zaiane @ cs.ualberta.ca
http://www.cs.ualberta.ca/~zaiane/

Osmar R. Zaïane is a Professor in Computing Science at the University of Alberta, Canada, and Scientific Director of the Alberta Innovates Centre for Machinre Learning (AICML). Dr. Zaiane joined the University of Alberta in July of 1999. He obtained a Master's degree in Electronics at the University of Paris, France, in 1989 and a Master's degree in Computer Science at Laval University, Canada, in 1992. He obtained his Ph.D. from Simon Fraser University, Canada, in 1999 under the supervision of Dr. Jiawei Han.

Dr. Zaiane's Ph.D. thesis work focused on web mining and multimedia data mining. He has research interests in data analytics, namely novel data mining algorithms, web mining, text mining, image mining, social network analysis, data visualization and information retrieval with applications in Health Informatics, e-Learning and e-Business. He has published more than 200 papers in refereed international conferences and journals, and taught on all six continents.

From 2009 to 2012 Dr. Zaiane was the Secretary-Treasurer of the ACM Special Interest Group on Data Mining which runs the world's premier data science, big data, and data mining association and conference. He is also on the steering committee of many data mining conferences such as IEEE International Conference on Data Mining, Advanced Data Mining and Applications, Data Science and Advanced Analytics. He was the Associate Editor then Editor-in-Chief of the ACM SIGKDD Explorations from 2003 to 2010. He is also Associate Editor of the Knowledge and Information Systems, an International Journal by Springer, and of the journal Data Mining and Knowledge Discovery by Springer, as well as the International Journal of Internet Technology and Secured Transactions. He was the General co-Chair of the IEEE International Conference on Data Mining ICDM 2011. Osmar Zaiane received the ICDM Outstanding Service Award in 2009 and the 2010 ACM SIGKDD Service Award.