**AHIC 2012**
ADVANCES in HEALTH INFORMATICS CONFERENCE

**Towards Integrated Diagnostics**
Bringing Crucial Information to the Point of Care

April 25 – 27, 2012

Schulich School of Business Executive Learning Centre | York University | Toronto, Ontario, Canada
National Institutes of Health Informatics | 2nd International Conference

# AHIC 2012 Presenters

**Samina Abidi**, PhD
Post-doctoral Fellow, Dalhousie University

Samina Abidi holds a PhD degree in Health Informatics (2010, Dalhousie University), Masters in Information Technology (2001, Universiti Sains Malaysia) and a Bachelors degree in Medicine and Surgery (1992, Dow, Medical College, University of Karachi). She has a unique skill-set where she is a clinician with expertise in health informatics. She is currently doing a post-doctoral fellowship in the area of clinical decision support systems at Dalhousie University and teaches health informatics topics in the Bachelor and Master of Health Informatics programs at Dalhousie University.
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**Syed Sibte Raza Abidi**, PhD
Professor, Director of Health Informatics, Faculty of Computer Science, Dalhousie University

Raza Abidi is Professor and Director of Health Informatics at the Faculty of Computer Science, Dalhousie University. He leads the NICHE research group that conducts research in healthcare knowledge management, clinical decision support, knowledge translation, health systems analytics and mobile health. He has authored over 140 peer-reviewed publications and supervised over 50 graduate students.
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**Reza Ariaeinejad**
PhD Student in Information Systems, DeGroote School of Business, McMaster University

Reza joined the Information Systems PhD program in Business Administration at McMaster University in September 2010, immediately following the completion of his Master's degree in Electrical and Computer Engineering at Ryerson University. His research interests are in the area of design and development of complex and dynamic information systems such as those in e-health.
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**Naveen Ashish**, PhD
Associate Research Professor/Scientist, Calit2, University of California, Irvine

Dr. Naveen Ashish is an Associate Professor with the Calit2 institute at the University of California, Irvine. He is also a Scientific Advisor to Abzooba Inc., a start-up company in health informatics. He holds a PhD in computer science from University of Southern California (2000).

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**Duane Bender**, P.Eng.
Principal Investigator, Applied Research Program, Mohawk College

Duane Bender is a licensed Professional Software Engineer (P.Eng.) and enterprise technology architect with nearly 20 years of practical experience in software engineering and systems development. His work has primarily involved the design and construction of large-scale, high-performance distributed software and systems for Business and Healthcare. Mr. Bender is currently a Principal Investigator for the Applied Research program at Mohawk College. His work focuses on the application of information and mobile technologies to healthcare ("emHealth"). With the sponsorship of NSERC, Mohawk is currently building a reference implementation of the national electronic health care record system architecture as published by Canada Health Infoway. Duane currently holds a faculty position as Professor of Software Engineering Technology at Mohawk College and is currently completing post-graduate work in the area of Software Engineering at McMaster University in Hamilton, Ontario, Canada.

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**Elizabeth Borycki,** RN PhD
Assistant Professor, School of Health Information Science, University of Victoria

Elizabeth Borycki RN PhD is an Assistant Professor at the School of Health Information Science at the University of Victoria, Victoria, British Columbia, Canada. Dr. Borycki has worked in both the private and public sectors. Her research interests include health information systems safety, clinical informatics, organizational behaviour and change management involving health information systems implementation and use. Elizabeth has published over 80 peer reviewed journal articles, book chapters and conference proceedings and has edited several books.

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**Prasad Chittaluru**, PhD.
President/CEO, EPIC Engineering & Consulting Group

Dr. Prasad Chittaluru is the President/CEO of EPIC Engineering & Consulting Group, LLC and Co-Founder of Genensys, LLC. He is experienced in the areas of program and project management, business process mapping, enterprise systems design and implementation. He has extensive work experience with government agencies, utilities, public works and businesses. He has facilitated the development of many large enterprise information management systems for government agencies across the United States and published papers in many industry conferences and publications. He has Masters and Ph.D. degrees in Civil/Environmental Engineering from University of Miami. He is a registered professional engineer, PMP and GIS professional.

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**Nathan Doidge**, PMP
Manager, Planning and Project Management, University Health Network

Nathan Doidge is an experienced project management professional and is currently Manager, Planning and Project Management at the Joint Department of Medical Imaging in Toronto. Most recently, his work has focused on provincial Wait Time Strategy initiatives including Ontario's wait time information system and the MRI process improvement project.

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**Pif Edwards**, BCS, MSc
PhD Student, Dynamic Graphics Project, Department of Computer Science, University of Toronto

Pif Edwards is a PhD student in the Department of Computer Science at the University of Toronto. He is presently studying facial perception and facial animation with the Dynamic Graphics Project under the supervision of Dr. Eugene Fiume. As well as a Bachelor's and Master's Degree in Computer Science from Dalhousie University, Pif also has a Bachelor's Degree in Theatre with a minor in Music. His working career is as varied as his academic career, working 10+ years as a graphic designer and 3 as a drama teacher and children's performer. His research experience is in bioinformatics, medical Information retrieval, natural language processing and interface design.

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**Shirley Fenton**, BES, MA
VP and Director, National Institutes of Health Informatics
Research Associate, Computer Systems Group, University of Waterloo

Shirley Fenton is VP and Director, National Institutes of Health Informatics and Research Associate, Computer Systems Group, University of Waterloo. She is interested in community informatics, innovative communities and Health Informatics. In 2010, she received the Zonta International's Women of Achievement Trailblazer Award. Shirley is a University of Waterloo graduate.

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**Maryam Ghasemaghaei**
PhD Student, DeGrotte School of Business, McMaster University

Maryam Ghasemaghaei did her BSc. and MSc. at University of Isfahan, Iran in 2007 and 2009 respectively both in Management. She is currently a PhD student of information systems in the DeGroote School of Business at McMaster University.

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**Ali Hamou**, BSc, MSc
Research Associate, I-THINK Research, Lawson Health Research Institute
Ali Hamou is currently a research associate at I-THINK Research Labs and has been the senior architect in designing and developing a health informatics data collection platform. Formally trained as a computer scientist with experience in healthcare, Ali has research experience in medical imaging, image segmentation/modeling and health informatics technologies.

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**Waqar Haque**, PhD
Professor, University of Northern British Columbia

Dr. Waqar Haque is Professor in the School of Business and Department of Computer Science at University of Northern British Columbia, Canada. His research encompasses areas in Business Intelligence, Advanced Analytics and High Performance Computing. In addition, he is involved with community projects and award winning applied collaborative research with multiple industrial partners.

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**Chris Hobson**, MD
Chief Medical Officer, Orion Health

Dr. Chris Hobson is Chief Medical Officer for Orion Health. He has unique knowledge and experience in medicine, health informatics, information technology and business. His particular areas of interest are health information exchange, chronic disease management, clinician adoption and patient safety in the use of health information technology.

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**Wenlan Huang**, RN, BScN
Masters Student, Faculty of Health Sciences, University of Ontario Institute of Technology

Wenlan Huang is a master's of health science candidate and a graduate research assistant at the University of Ontario Institute of Technology under the supervision of Dr. Carolyn McGregor and Dr. Andrew James. Her research interests include the application of information technology in NICU environment, clinical decision making support, patient journey modelling and business process improvement.

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**Dawid Kasperowicz**
Masters Student, Information Retrieval and Knowledge Management Research Lab, York University

Dawid Kasperowicz is currently pursuing his M.A. in Information Systems and Technology at York University. Supervised by Dr. Jimmy Huang and part of his Information Retrieval and Knowledge Management Lab, his current research is in the field of Health Informatics, specifically in biomedical text retrieval and mining.

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**Vlado Keselj**, PhD
Professor of Computer Science, Director of Electronic Commerce, Faculty of Computer Science, Dalhousie University

Dr. Vlado Keselj is a Professor of Computer Science and the Director Electronic Commerce in the Faculty of Computer Science at the Dalhousie University in Halifax, Nova Scotia, Canada. His research interests include topics in the areas of Text Processing, Natural Language Processing, Data Mining, and Electronic Commerce. Dr. Keselj received his PhD (2002) and MMath (1997) degrees in Computer Science at the University of Waterloo, and BMath (1994) in Computer Science at University of Belgrade. Dr. Keselj published about 100 papers (about 50 refereed), and co-edited three books. He is a member of ACM, IEEE, AAAI, and CAIAC associations.

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**Andre Kushniruk**, PhD
Professor, School of Health Information Science University of Victoria

Dr. Kushniruk conducts research in a number of areas including evaluation of the effects of technology, human-computer interaction in health care and other domains as well as cognitive science. His work is known internationally and he has published widely in the area of health informatics. He focuses on developing new methods for the evaluation of information technology and studying human-computer interaction in health care. He has been a key researcher on a number of national and international collaborative projects. His work

includes the development of novel usability and workflow methods applied to the study of electronic health records and decision support systems.

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**Maarten van Limburg**
PhD Student, University of Twente

Maarten van Limburg is PhD student at the University of Twente researching on business modeling in eHealth. The main focus of Maarten's research is in particular finding an implementation and subsequent business case for a cross-border infection manager to reduce healthcare associated infections, by optimizing and benchmarking antibiotic use.

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**Lester Ly**, MBA
Project Manager, University Health Network

Lester is an experienced project management professional with expertise in process and quality improvement. He has a biological engineering background from the University of Guelph and an MBA from the Schulich School of Business. He aims to contribute to positive change in the Ontario healthcare landscape.

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**Ehsan Maghsoud-Lou**
Graduate Student, Health Informatics Department, Dalhousie University

Ehsan Maghsoud-Lou is a graduate student at the Health Informatics Department, Dalhousie University. He is currently working on development of an electronic referral system and integration of knowledge based decision support services, as a cooperative project between NICHE research group and the Halifax Infirmary Neurosurgery Division.

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**Carolyn McGregor**, PhD, SMIEEE
Canada Research Chair in Health Informatics and Associate Professor Faculty of Business & IT and Faculty of Health Sciences, University of Ontario Institute of Technology (UOIT)

Professor McGregor is an international leading researcher in the area of critical care health informatics and in particular neonatal health informatics. Since her arrival in Canada in 2007, she has led innovative health informatics research that has been supported by approximately $5 million. In 2011 she was one of four international innovators featured in the IBM Centennial "Wild Ducks" video.

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**Grace Paterson**, PhD
Dalhousie Health Informatics Program, Interim Director, Medical Informatics/Division of Medical Education, Faculty of Medicine, Dalhousie University

Dr. Grace Paterson, Associate Professor, Medical Informatics, Faculty of Medicine, teaches in Dalhousie's Master of Health Informatics program and the medical school. She is a founding member of the National Health Informatics Institute and her research interest is using SNOMED CT and HL7 together.

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**Puntip Pattaraintakorn** PhD
Infobright

Puntip Pattaraintakorn is a researcher at Infobright, a Toronto company which develops a
high performance, self-tuning analytic database. Her research focuses on domain expert
systems, data mining and statistical learning. Prior to joining Inforbright, Puntip was a postdoctoral fellow at
York University, and worked for five years as assistant professor at KMITL
University. She obtained her Ph.D. from Mahidol University.

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**Lois Scott**, RN, BScN, MN
Vice President, McKesson Canada

Lois Scott is a highly regarded business and clinical leader, with significant contributions in the
areas of telehealth standards and telenursing practice and education. Scott has extensive
national and international experience as a Board/Committee member of telehealth
associations and as a presenter at telehealth conferences. In 2008, the Canadian Nurses Association awarded
Scott the Centennial Award for her outstanding nursing leadership.

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**Aviv Shachak**, PhD
University of Toronto

Dr. Aviv Shachak is an Assistant Professor, at the Institute of Health Policy, Management and
Evaluation, University of Toronto. His work seeks to improve usage and realization of the
benefits of health information systems, through the study, design, and evaluation of
educational interventions, user manuals, user interfaces, and end-user support.

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**M. Jill Sporidis**, BSc, DHSA, MBA, PhD-DHA (c)
Wood Buffalo Primary Care Network

Jill is the WBPCN's Executive Director and Chief Operating Officer, a multimillion dollar primary healthcare
organization in Alberta. With over 12 years of progressive leadership experience, Jill has published numerous
white papers and articles on quality in healthcare and evaluation tools used to demonstrate programming
effectiveness in the PCN setting.

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**Sam Stewart**, MMath, AStat
PhD Student, Dalhousie University

Sam is a PhD student at Dalhousie University studying Health Informatics. His research
interests include clinician communication and facilitating knowledge translation via web 2.0
tools. He is also an Accredited Statistician with the Statistical Society of Canada, and is
interested in using robust statistical methods for better health systems evaluation.

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**Winnie Su**n RN, MN,
PhD candidate, Lawrence S. Bloomberg Faculty of Nursing, University of Toronto

Winnie Sun is a PhD candidate in Nursing at the University of Toronto. Her doctoral dissertation is examining the relationship between self-care ability and adverse outcomes among home care clients. She is actively involved in research projects to explore the development of remote monitoring technologies for clients in the homes.

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**Li Tao**
PhD Student, Computer Science Department, Hong Kong Baptist University

Li Tao is a PhD student of Computer Science at Hong Kong Baptist University (HKBU). Her main research interests include the complex health care system modeling and optimization, operations research, and Autonomy-Oriented Computing (AOC).

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**Albert Crous Tsanaclis**, MD
CRED - Collaborative Research for Effective Diagnostics, Faculté de médecine et des sciences de la santé, CHUS - Centre Hospitalier universitaire de Sherbrooke, Université de Sherbrooke

Dr. Tsanaclis works on clinical dashboards as his Clinical Sciences masters research under the supervision of Dr Andrew Grant, at the University of Sherbrooke (UdeS), QC, Canada. He is co-professor of Epidemiology and Clinical Practice of the graduate microprogramme Health Informatics and instructor in biomedical sciences at UdeS.

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**Terrie Tucker**, MBA
Chief Information Officer & Director eHealth, Baycrest

Terrie Tucker is the Chief Information Officer at Baycrest, and adjunct instructor at Ryerson University in the Ted Rogers School of Management, Informatics, Health Information & Health Services Management programs. The CIO portfolio at Baycrest includes IT, Informatics, Health Records, Admitting, FOI, Privacy, and Decision Support. Terrie has an MBA and undergrad degree in Economics.

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**Jobke Wentzel**
PhD Student, University of Twente

Jobke Wentzel is a PhD student at the University of Twente. Her research focuses on the development of an online communication platform for cross-border cooperation and information-sharing to reduce healthcare associated infections. Jobke combines a human centered design and stakeholder approach to develop applications that support cross border infection control.
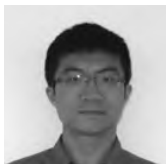
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**Michael J. Wilson**, MSc
Research Administration, McMaster University

Michael J. Wilson is a graduate of the M.Sc. eHealth program at McMaster University. He works in Research Administration at McMaster. Michael was recently a member of an Expert Group with COACH, writing a Special Edition guideline on privacy and security of Personal Health Information using patient portals.
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**Serene Wong**, MSc
PhD Student, York University

Serene Wong is a PhD computer science student at York University, and a member in the Ontario Cancer Institute. She obtained her MSc. in the University of British Columbia, and her Honours B.Sc. in the University of Toronto specializing in computer science and minoring in mathematics.
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**Shang Xia**
PhD Student, Computer Science Department, Hong Kong Baptist University

Shang Xia is currently a PhD student in Computer Science Department at Hong Kong Baptist University. His main research interests include epidemic modeling and human behavior, and Autonomy-Oriented Computing (AOC).
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**Xiaofei Yang**
PhD Student, Computer Science Department, Hong Kong Baptist University

Xiaofei Yang is a PhD student of Computer Science at Hong Kong Baptist University (HKBU). His main research interests include the complex system modeling and optimization, and Autonomous Oriented Computing (AOC).
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**Michael Zhang**, PhD
Senior Analyst, Winnipeg Regional Health Authority
Adjunct Professor, Department of Biology, Department of Applied Computer Science, University of Winnipeg
Adjunct Professor, Department of Mechanical Engineering, University of Manitoba

Michael Zhang is an Adjunct Professor at the University of Manitoba and a Senior Decision Analyst, Clinical Services at the Winnipeg Regional Health Authority. He has led his team on several research projects including the development of microfluidic systems for point-of-care biomedical diagnostics, automated cell tracking algorithms, statistical analysis of microfluidics-based cell data as well as tissue engineering related studies. He received his PhD in Biosystems Engineering at the University of Manitoba.