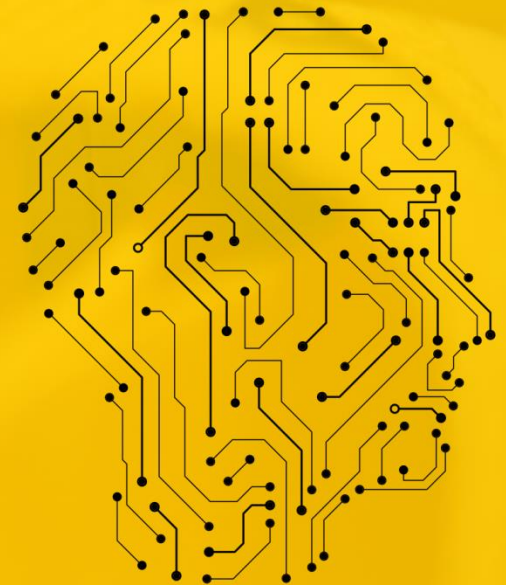




Science and Information Conference 2014
August 27-29, 2014 | London, UK

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About the Conference

Science and Information (SAI) Conference is a premier venue for researchers and industry practitioners to share their new ideas, original research results and practical development experiences from Computer Science, Electronics and Communication related areas.

Science and Information Conference 2014 features presentations of contributed papers and posters, project demonstrations, tutorial sessions, industrial workshops and super charging Keynote and Invited Talks. Science and Information Conference 2014 is hosted by The Science and Information Organization, and is being organized with sponsorship and support from Microsoft, RK Trans2Cloud, IEEE and Springer.

This conference is held in London, a vibrant and historical city which is home to multiple academic institutions and where visitors can enjoy a variety of activities and entertainment!

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Park Inn by Radisson Hotel & Conference Centre
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Keynote Talks

Ann Cavoukian, Ph.D. - Executive Director of the Ryerson University Institute for Privacy and Big Data

Data, Data Everywhere – The Need for Big Privacy in a World of Surveillance and Big Data

August 27, 2014 | 9:00 am – 10:30 am

Ann Cavoukian is the former Information and Privacy Commissioner for the Canadian province of Ontario serving from 1997 to 2014. Dr. Cavoukian is recognized as one of the world's leading privacy experts. Her Privacy by Design framework seeks to proactively embed privacy into the design specifications of information technologies and business practices, thereby achieving the strongest protection possible. In October 2010, regulators at the conference of International Data Protection and Privacy Commissioners in Jerusalem unanimously passed a Resolution recognizing Privacy by Design as an essential component of fundamental privacy protection. This was followed by the U.S. Federal Trade Commission's inclusion of Privacy by Design as one of three recommended practices for protecting online privacy – a major validation of its significance.

In November 2011, Dr. Cavoukian was ranked as one of the top 25 Women of Influence, recognizing her contribution to the Canadian and global economy. In October 2013, she was named one of the top 100 City Innovators Worldwide by UBM Future Cities for her passionate advocacy of Privacy by Design. In December 2013, the Founding Partners of the Respect Network, the world's first peer-to-peer network for personal and business clouds, named Dr. Cavoukian as its first Honorary Architect. She is now tackling Big Data, for which she says, "Big Privacy" is the answer.

Abstract: The revelations of Edward Snowden regarding the NSA have created a firestorm of controversy, bringing into question our very right to privacy. The absence of transparency and accountability by government intelligence agencies makes these revelations all the more troubling. This has prompted companies such as Google, Microsoft, Facebook, Twitter, Apple, AOL, LinkedIn and Yahoo to form a coalition called, Reform Government Surveillance, to demand that governments address the practices and laws regulating the government surveillance of law-abiding citizens. What is Canada doing? We also have the massive growth of Big Data to contend with – how will this impact our privacy? The positive-sum framework of Privacy by Design is ideally suited to address this issue since it enables the operation of multiple functionalities. But the response to Big Data will need to be equally "Big" in scope – so enter Big Privacy! Come hear Commissioner Cavoukian explain how Big Privacy could lead to a doubly-enabling, win-win proposition.

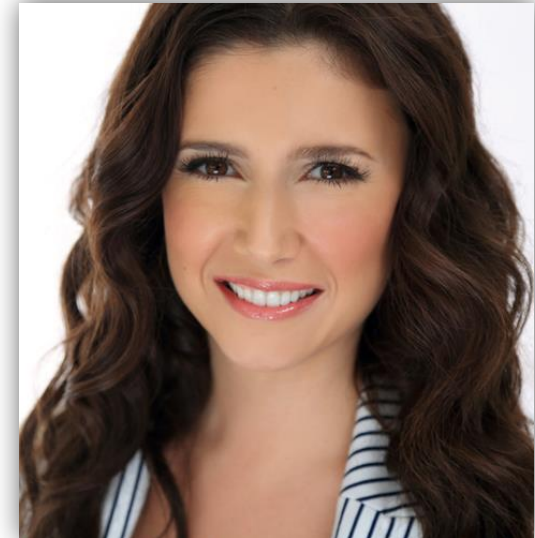


Dr Helen Papagiannis – Augmented Reality Researcher and Designer, Toronto, Canada

Augmented Reality and its past, present, and future

August 27, 2014 | 11:00 am – 12:00 pm

Dr. Helen Papagiannis is recognized as a leading expert in the field of Augmented Reality (AR). She has been working with Augmented Reality (AR) for almost a decade with a focus on storytelling and creating compelling experiences in AR. Dr. Papagiannis was named among the NEXT 100 Top Influencers of the Digital Media Industry in 2013, and is featured as an innovator in the book, "Augmented Reality: An Emerging Technologies Guide to AR", published in 2013. Her work and research in the field include her role as Chief Innovation Officer at Infinity Augmented Reality Inc. (New York City and Tel Aviv) and Senior Research Associate at York University's Augmented Reality Lab in the Department of Film, Faculty of Fine Art (Toronto). She has presented her interactive work and PhD research at global conferences and invited events including TEDx (Technology, Entertainment, Design), ISMAR (International Society for Mixed and Augmented Reality) and ISEA (International Symposium for Electronic Art). Dr. Papagiannis's TEDx 2011 talk was featured among the Top 10 Talks on Augmented Reality and Gamified Life. Prior to her augmented life, Dr. Papagiannis was a member of the internationally renowned Bruce Mau Design studio where she was project lead on "Massive Change: The Future of Global Design", an internationally touring exhibition and best-selling book examining the new inventions, technologies, and events changing the world.



Abstract: Augmented Reality (AR) is quickly advancing into a new phase of contextually rich personalized experiences and steering away from gimmickry. Working with AR as a PhD researcher and designer for the past decade, Helen Papagiannis has observed two different waves: the first wave of AR focused on AR as “overlay”, with the second wave moving towards AR as an “entryway”. The second wave of AR will surpass novelty and extend our human capacities to better understand, engage with, and experience our world in new and meaningful ways. Our devices will be highly cognizant of our constantly changing environments, delivering personalized solutions with highly relevant content and experiences. It is adaptive, with the user forever at the centre. The second wave of AR combines elements like Artificial Intelligence (A.I.), machine learning, sensors, wearables, and big data all to tell the unique story of you. This talk will take the audience on a journey through the evolution of AR as a medium: it's past, present, and future.

Invited Talks

Professor David Stupples - City University London, UK

Is it possible to "cyberjack" modern airplanes?

August 27, 2014 | 1:30 pm – 2:30 pm

Professor David Stupples specialises in research and development of secure communications and computing systems. For a number of years he undertook research in this area at the Royal Signal and Radar Establishment at Malvern in the UK followed by surveillance and intelligence systems research for the UK Government. He then spent three years developing highly secure communications for surveillance satellites for Hughes Aircraft Corporation in the US. In his early career, Dr David Stupples was employed in signals intelligence by the Royal Air Force. Later, he was a senior partner with PA Consulting Group where he was responsible for the company's consultancy work on the design, build and operation of secure communications systems for world-wide clients. His research work has included the development of high-grade encryption techniques for radio and digital communications for both military and government use. This involved cryptanalysis of candidate systems in order to test the efficacy of the systems against attack, and the use of systems analysis to review operational procedures. Furthermore work included improving the security of both spread spectrum satellite communications and distributed time-division multiple access systems used for digital wireless. Latterly, Professor David Stupples has been actively researching internet security, particularly focused on cyber terrorism and organised cyber crime for both the UK government and commercial companies. This work has required the development of new systems analysis and modelling techniques to understand the behaviour of complex systems.

Abstract: The mystery surrounding the disappearance of Malaysian Airlines Flight MH370 has given rise to a number of conspiracy theories, not least among them is that the Boeing 777 may have been "cyberjacked". It can be shown that this was not the case with MH370, but the theory poses an interesting question. Can a modern airliner with its high levels of automation and sophisticated navigation be "cyberjacked", or extending the theory a little further, can an unmanned aerial vehicle (UAV) be "cyberjacked"? David Stupples will investigate the feasibility of the theory by discussing how avionics and flight control systems of modern flight vehicles function and then develop how these systems could be subverted. Finally, protection and prevention methods will be touched upon although not dealt with in detail.



Professor Nikola Šerbedžija - Fraunhofer FOKUS, Berlin, Germany

Complexity of Autonomous Behaviors - If You were a Robot you would better Understand

August 28, 2014 | 9:00 am – 10:00 am

Nikola Šerbedžija is a scientific advisor at Fraunhofer FOKUS responsible for new research activities and innovative technology. He was visiting professor at University of Technology Sydney (1999-2000) and at University of Arts, Berlin (2000 – 2008). His major research areas are: adaptive control, pervasive and ubiquitous computing, middleware architectures, and internet programming, mostly applied within embedded and real-time, ambient assistance and empathic systems. Since 2008 he has been involved in several EU projects and initiatives that consider future and emerging technology (FET programme).

Abstract: The talk details an approach to construct autonomous systems that control highly dynamic environments where physical and social context, operational and functional requirements and workloads are constantly changing. Our general-purpose solution for knowledge-based, self-aware and adaptive behaviors offers a range of tools and methods to support the system development lifecycle. The methodology is deployed on robot swarms, scientific cloud computing and energy-aware e-mobility control systems. To illustrate the complexity of autonomous behavior an experiment is shown: a human competes with our autonomous robot in performing the given assignment. The experiment places the audience into “the robot perspective” and demonstrates the strengths and weakness of natural versus artificial autonomy offering further assumptions on autonomous systems’ practices and impacts.



Professor Mischa Dohler - King's College London & Board of Directors, Worldsensing

The Dawn of Connected Machines

August 28, 2014 | 10:00 am – 11:00 am

Mischa Dohler is Professor in Wireless Communications at King's College London, member of the Board of Directors of Worldsensing, Fellow and Distinguished Lecturer of the IEEE, and Editor-in-Chief of the Transactions on Emerging Telecommunications Technologies. He has provided technical and thought leadership in wireless communications for more than 15 years. He has an in-depth understanding of research, innovation and business. He has shaped the industry landscape through his broadband standards contributions in ETSI BRAN, impacting the emerging design of 5G systems; and his M2M standards contributions in ETSI M2M, Wavenis and IETF ROLL, impacting the billions of sensors to-be-rolled out over the next decade. He has contributed to numerous wireless broadband and IoT/M2M standards, holds a dozen patents, chaired numerous conferences and published more than 160 refereed journal and conference papers. His leadership role in academia is corroborated by editorial contributions in form of Editor-in-Chief (EiC), book series editor, journal editorial boards, lead/co-editor of special issues. His scientific, innovation and business qualities are recognized by the European Commission, where he actively shapes the Horizon2020 framework and is involved as project proposal evaluator, project evaluator, and keynote speaker. He acts as policy, technology and entrepreneurship adviser, examples being Richard Branson's Carbon War Room, the House of Lords UK, the European Commission, and various start-ups. He is also an entrepreneur, angel investor, passionate pianist and fluent in 6 languages. He has talked at TEDx. His contributions have featured in the Wall Street Journal and BBC.



Abstract: An emerging paradigm is gripping industrial and academic ICT communities alike, the one of Machine-to-Machine (M2M) communications. It refers to the ability of machines to communicate with one another without human intervention. If predictions are to be believed, we will have some 50bn devices “speaking” to each other by 2020. Touted by some the 4th Industrial Revolution, this hyper-connected cyber-physical world will certainly ignite unprecedented economic and social opportunities. In this talk, I will review recent technological developments which we believe will allow us to address this scale of connectivity. I will also dwell on some lessons we learned from prior connectivity exercises and discuss mistakes made. I will then expose major research and design challenges which need to be addressed to facilitate a truly connected cyber-physical world, including issues related to Big Data, Open Data and Privacy.

Professor Frank Zhigang Wang - University of Kent, UK

How will computers evolve over the next 10 years?

August 29, 2014 | 9:00 am – 10:00 am

Frank Z. Wang is the Professor in Future Computing and Head of School of Computing, University of Kent, UK. The School of Computing was formally opened by Her Majesty the Queen. Professor Wang's research interests include cloud/grid computing, green computing, brain computing and future computing. He has been invited to deliver keynote speeches and invited talks to report his research worldwide, for example at Princeton University, Carnegie Mellon University, CERN, Hong Kong University of Sci. & Tech., Tsinghua University (Taiwan), Jawaharlal Nehru University, Aristotle University, and University of Johannesburg. In 2004, he was appointed as Chair & Professor, Director of Centre for Grid Computing at CCHPCF (Cambridge-Cranfield High Performance Computing Facility). CCHPCF is a collaborative research facility in the Universities of Cambridge and Cranfield (with an investment size of £40 million). Prof Wang and his team have won an ACM/IEEE Super Computing finalist award. Prof Wang was elected as the Chairman (UK & Republic of Ireland Chapter) of the IEEE Computer Society in 2005. He is Fellow of British Computer Society. He has served the Irish Government High End Computing Panel for Science Foundation Ireland (SFI) and the UK Government EPSRC e-Science Panel.



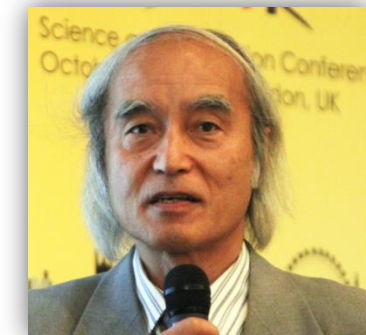
Abstract: Computer science has impact on many parts of our lives. Computer scientists craft the technologies that enable the digital devices we use every day and computing will be at the heart of future revolutions in business, science, and society. Our research targets the next generation computing paradigms and their applications. We have been working on Cloud Computing, Grid Computing & Internet II for many years. A developed Cloud/Grid Computing platform conforms to the Internet standard and can universally accelerate Office/Database/Web/Media applications by a factor up to ten. This work won an ACM/IEEE Super Computing finalist award. We will also report our research on Green Computing, Brain Computing and Future Computing.

Professor Kohei Arai - Saga University, Japan

Computer input with human eyes only and its applications

August 29, 2014 | 10:00 am – 11:00 am

Dr Kohei Arai, a Scientist, Professor and Author, holds more than 486 journal papers, 356 conference papers and 30 books to his profile. Dr Arai received PhD degree in Information Science from Nihon University in June 1982 and MS degree in Electronics Engineering from Nihon University in March 1974. He is currently Professor at Saga University, Japan and Adjunct Prof. of the University of Arizona, USA since 1998. His current research concerns are Satellite Remote Sensing, Radiative Transfer Equation, Human-Computer Interaction, Image Recognition and Understanding, Non-Linear Optimization Theory and Wavelet Analysis. Dr Arai holds 42 patents and received numerous awards, including the Patent Award of the Year. Dr Arai has been featured in Japan Times and Italian Newspapers for his work on Eyes only Computer System. He has worked on several global research collaboration projects during his career.



Abstract: Eye-based Human-Computer Interaction: HCI is developed in particular for disabled and elderly persons. Users can key-in the key in concern to their computer by using only their eyes. Using Near Infrared: NIR camera with NIR light source mounted on their glass, users' eye images are acquired. The line of sight vector, then can be estimated through image processing. Therefore, the location at which users is looking can be estimated. The moving keyboard proposed here can be moved to the right/left/above/below directions from the center of the enlarged key location when users are looking at the displayed enlarged right/left/above/below keys. It is easy to select the specific enlarged keys with 100% of success rate. It can be done within 0.7 second. Therefore, key-in can be done perfectly. This Eyes-based HCI can be applicable to Electric Wheel Chair: EWC control. When users on their EWC are looking at left and right, then EWC is turned left and right while EWC moves forward when users are looking forward (the center). It also is possible to phoning, watching TV, web search etc. with their eyes only when they use the proposed eye-based HCI. A variety of applications of the proposed eye-based HCI will be presented.

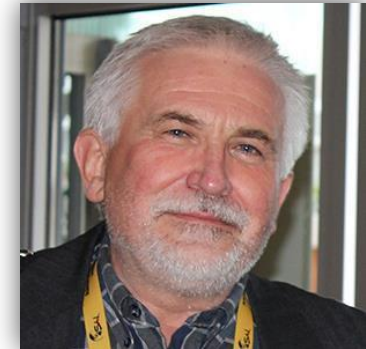
Tutorials

Peter Simon Sapaty- National Academy of Sciences - Kiev Ukraine

Using Spatial Grasp Technology for Solving Complex National and International Problems

August 29, 2014 | 11:30 am – 12:30 pm

Dr Peter Sapaty (educated in power networks & missile control), Chief Research Scientist, Director of Distributed Simulation and Control, Ukrainian Academy of Sciences, is with networking for 45 years. Except Ukraine, worked in Germany, UK, Canada and Japan as Alexander von Humboldt awardee, project leader, research professor and invited professor, created and chaired special interest group on Mobile Cooperative Technologies within Distributed Interactive Simulation (DIS) project in the US. Invented high-level distributed control technology used in different countries and resulted in a European Patent and two John Wiley books, with the third one in progress. Published more than 160 scientific papers worldwide on distributed system organizations. Current areas of interest: models and languages for coordination and simulation of distributed dynamic systems with application in cooperative robotics, emergency management, infrastructure protection, and fighting terrorism. Peter regularly served as workshop organizer, sessions chair, keynote and invited speaker at scientific and defense conferences in the UK, US, Japan, Portugal, Spain, Germany, Singapore, India, and Turkey. His bio is in Marquis Who's Who in the World and Cambridge Outstanding Intellectuals of the 21st Century.



Abstract: With the world conflicts steadily moving from kinetics to cultural dimensions, the presentation will provide an overview of main trends in this area, including memetics, psychological warfare, social and cultural engineering, and ultimately, human terrain, which is currently being embedded into official doctrines. A high-level ideology and supporting networking technology will be revealed that can implement basic human terrain ideas in providing effective solutions for complex problems with the ability of reducing, even avoiding, military force. The technology, based on holistic and gestalt ideas rather than traditional communicating agents and interoperability, allows us to grasp nonlocal social, cultural, ethnic, religious, and military problems, including unpredictable and asymmetric ones, in a special high-level language suitable for manned, unmanned, and combined systems. The Integral goal-driven relief scenarios, which can be created and modified on the fly, are collectively interpreted in large networked spaces (comprising mobile phone and laptop users, smart sensors, and mobile robots) in a controlled super-virus mode, making the approach highly ubiquitous, agile, and thus superior to many existing technological means.

Tariq Jamil - Department of Electrical and Computer Engineering, Sultan Qaboos University

An Introduction to Complex Binary Number System and Associative Dataflow Processor

August 29, 2014 | 11:30 am – 12:30 pm

Dr. Tariq Jamil is a faculty member in the Department of Electrical and Computer Engineering at Sultan Qaboos University (SQU, Oman) where he teaches and does research in the areas of computer architecture, parallel processing, computer arithmetic, and cryptography. Before joining the faculty at SQU in year 2000, he had been a lecturer at the University of New South Wales, Sydney (Australia) and the University of Tasmania, Launceston (Australia). Dr. Jamil holds a B.Sc. (Honors) degree in electrical engineering from the NWFP University of Engineering and Technology (Pakistan) and M.S./Ph.D. degrees in computer engineering from the Florida Institute of Technology (USA). He has authored three books (the latest one is on Complex Binary Number System published by Springer), holds an Australian Innovation Patent on Complex Binary Associative Dataflow Processor, and has written over forty research papers in refereed international conferences and journals. He has been a recipient of research grants from the Australian Research Council and SQU. On account of his outstanding academic achievements and for contributions to activities related to the computing discipline, he was awarded the IEEE Computer Society(USA)/Upsilon Pi Epsilon Honor Society Award for Academic Excellence (1996).



Abstract: Complex numbers play a unique and important role in engineering applications such as digital signal processing and image processing. These days, arithmetic operations involving complex numbers are usually carried out by the application of "divide-and-conquer" technique, whereby a complex number is broken-up into its real and imaginary parts and then operations are carried out on each part as if it was a part of the real arithmetic. Finally, the overall result of the complex operation is obtained by accumulation of the individual results. For instance, addition of two complex numbers $(a+jb)$ and $(c+jd)$ requires two separate additions (one for the real part and one for the imaginary part) while multiplication of the same two complex numbers requires four multiplications (ac, ad, bc, bd), one subtraction ($j2bd = -2bd$), and one overall addition. This can be effectively reduced to just one complex addition or only one multiplication and addition respectively for the given cases if each complex number is represented as one unit instead of two individual units. In an effort to provide single-unit representation to complex numbers, both mathematicians and engineers have tried to define binary numbers with bases other than 2. This includes work by Donald E. Knuth in 1960, Walter Penney in 1964, and V. Stepanenko in 1996. In this presentation, I'll provide a tutorial on $(2+1j)$ -base binary number system which allows complex numbers the opportunity to be represented as a single unit like their counterparts in the "real"-world. I'll also outline procedures for addition, subtraction, multiplication, and division of two such complex binary numbers and present hardware designs of nibble-size complex binary adder, subtractor, multiplier, and divider circuits. Finally, I'll discuss how we can incorporate this unique number system in today's microprocessor's technology and enhance parallel processing paradigm utilizing associative memory in a dataflow environment. An innovation patent on Complex Binary Associative Dataflow Processor has been granted by the Australian Patent Office in 2010 whose details will also be presented in this tutorial.

Industrial Workshops

Kenji Takeda - Solutions Architect and Technical Manager, Microsoft

August 27, 2014 | 12:00 pm – 12:30 pm

Dr Kenji Takeda is Solutions Architect and Technical Manager for the Microsoft Research Connections EMEA team. He is currently focussed on Azure for Research and Environmental Science tools and technologies. He has extensive experience in Cloud Computing, High Performance and High Productivity Computing, Data-intensive Science, Scientific Workflows, Scholarly Communication, Engineering and Educational Outreach. He has a passion for developing novel computational approaches to tackle fundamental and applied problems in science and engineering.

He was previously Co-Director of the Microsoft Institute for High Performance Computing, and Senior Lecturer in Aeronautics, at the University of Southampton, UK. There he worked with leading high value manufacturing companies such as Airbus, AgustaWestland, BAE Systems, Rolls-Royce and Formula One teams, to develop state-of-the-art capability for improving science and engineering processes. He also worked in the areas of aerodynamics, aeroacoustics and flight simulation. Kenji is a visiting senior lecturer at the University of Southampton.

Abstract: Science and technology are advancing at a tremendous pace in every facet of our lives. Advances in computing capability, connectivity, ubiquitous sensing, and ambient intelligence promise huge opportunities in almost every domain. The resulting data deluge, however, presents many technical and social challenges that must be overcome to realise the full potential for data science and data-driven innovation. In this talk we describe how Microsoft Azure is enabling data collection, management, visualisation and modelling at scale from astronomy and environmental science, to healthcare and humanities research. We will explore how cloud computing is evolving, and helping to democratise data science for all.



Shraddha H. Shetty - Managing Director, RKTrans2Cloud

"The cloud will change everything" - what is inhibiting this change?

August 28, 2014 | 11:00 pm – 11:30 pm

Ms. Shraddha H Shetty, completed her Master's in business administration from University of Wales, Cardiff. She has 7+ years' experience in UK including 5+ years as Certified Project Manager (PRINCE 2) in Project Management, SAP Implementation and Support, Business Analysis and Process Improvements for Siemens VAI UK. IBM Certified Cloud Computing Infrastructure Architect with expertise on creating, configuring and operating infrastructure on the cloud(s), as well as deploying, configuring and customizing applications on the cloud. Her venture, RK Trans2cloud aims to be a pioneer in the field of cloud computing, providing consulting, IT services, testing, training and solutions on several of the leading cloud platforms such those provided by Microsoft, Amazon, Google and Salesforce.com.

Abstract: Cloud Computing is the latest evolving shift in Information Technology. Its value propositions of eliminating capital expenditure, reducing operational expenditure and operational overheads so that enterprises can focus on their core business are truly compelling. To get the most from the cloud and to position the future of business growth, IT leaders must understand the challenges that are shaping the rapidly changing landscape. The on-going development and growth of cloud and its vast benefits are constrained by challenges and inconsistencies that exist in its current state. Concerns about data security, the efficiency and effectiveness of cloud services are the core of these challenges E.g. Information security, Interoperability, Regulatory Compliance, data volumes when migrating and multi-cloud/hybrid cloud management and Cloud Migration Skills Gap etc.

The underlying problem that lies beneath is a lack of standards. Identifying the problem areas, thoroughly defining standards and providing competent training in cloud computing, will allow its full potential to be reached, becoming universally accepted and implemented. Cloud computing has become a dynamic force in the business world. And forward-thinking clients have discovered that the right approach to cloud-based services can help them improve the performance of their service offerings, while lowering costs, creating a compelling competitive advantage. Our focus will shed light on these issues, since their solutions are fundamental to the smooth introduction of cloud computing, that in turn will have a major impact on the future of information technology, Knowledge Work and the role of outsourcing in business transformation.



WEDNESDAY, August 27, 2014

7:00 am – 9:00 am	Conference Registration				
9:00 am – 10:30 am	Opening Ceremonies Keynote Address Ann Cavoukian, Ph.D. - Data, Data Everywhere – The Need for Big Privacy in a World of Surveillance and Big Data (Discovery Suite)				
10:30 am – 11:00 am	AM Break and Networking (Pre-Function Area)				
11:00 am – 12:00 pm	Keynote Address Dr. Helen Papagiannis - Augmented Reality and its past, present, and future (Discovery Suite)				
12:00 pm – 12:30 pm	Industrial Workshop Kenji Takeda - Data-driven Discovery and the Cloud (Discovery Suite)				
12:30 pm – 1:30 pm	Lunch (Bravo! Bravo! Restaurant)				
1:30 pm – 2:30 pm	Invited Speaker Address Professor David Stupples - Is it possible to "cyberjack" modern airplanes? (Discovery Suite)				
2:30 pm – 2:45 pm	Short Tea/Coffee Break (Pre-Function Area)				
2:45 pm – 4:15 pm	Session 1: Intelligent Systems (Discovery 1 Suite)	Session 2: Technology Trends (Discovery 2 Suite)	Session 3: Machine Vision (Discovery 3 Suite)	Session 4: e-Learning (Atlantis 1 Suite)	Session 5: Security (Atlantis 2 Suite)
4:15 pm – 4:30 pm	PM Break and Networking (Pre-Function Area)				
4:30 pm – 6:00 pm	Session 6: Intelligent Systems (Discovery 1 Suite)	Session 7: Electronics (Discovery 2 Suite)	Session 8: e-Business (Discovery 3 Suite)	Session 9: e-Learning (Atlantis 1 Suite)	Session 10: Security (Atlantis 2 Suite)

August 27, 2014

2:45 pm – 4:15 pm

Session 1: Intelligent Systems (Discovery 1 Suite) Session Chair - Kohei Arai	Session 2: Technology Trends (Discovery 2 Suite) Session Chair - Amanda Peart	Session 3: Machine Vision (Discovery 3 Suite) Session Chair - Yaxin Bi	Session 4: e-Learning (Atlantis 1 Suite) Session Chair - Dumitru Dan Burdescu	Session 5: Security (Atlantis 2 Suite) Session Chair - Peter Sapaty
<p>353 - An Optimized Single-Finger Arabic Keyboard Layout <i>Authors: Manar I. Hosny, Nourah Alswaidany, Abir Benabid Najjar</i></p> <p>239 - A Mutation-Based Genetic Algorithm for Room and Proctor Assignment in Examination Scheduling <i>Authors: Manar Hosny, Muhrah Al-Olayan</i></p> <p>200 - The Problem of Computing k-Disjoint Maximal Cliques Covering a Maximum Number of Vertices for Weakly Triangulated Graph <i>Authors: Sumana Bandyopadhyay, Rajat Kumar Pal</i></p> <p>92 - Machine Translation-A Journey <i>Authors: Promila Bahadur, Durg Singh Chauhan</i></p>	<p>70 - Towards a Composite Index for Measuring the Higher Education Institutions in Egypt <i>Authors: Mohamed Rashad M El-Hefnawy, Ali Hamed El-Bastawissy, Mona Ahmed Kadry</i></p> <p>396 - Graph clutter filtering based on connectivity distance and visibility <i>Authors: Jan Mojzis, Michal Laclavik</i></p> <p>146 - How Many Participants are Really Enough for Usability Studies? <i>Authors: Roobaea AlRoobaea, Pam J. Mayhew</i></p> <p>158 - Understanding the User Experience (UX) Factors that Influence User Satisfaction in Digital Culture Heritage Online Collections for Non-Expert Users <i>Authors: Zaihasriah Zahidi, Yan Peng Lim, Peter Charles Woods</i></p>	<p>232 - Toward Scalable Application-Oriented Video Surveillance Systems <i>Authors: Amal Ben Hamida, Mohamed Koubaa, Chokri Ben Amar, Henri Nicolas</i></p> <p>88 - Spelled Sentence Recognition Using Radon Transform <i>Authors: Rajeshree S. Rokade, Dharmpal D. Doye</i></p> <p>375 - A Novel Lip-reading Method using RGB-D Camera <i>Authors: Rashed Mustafa, Dingju Zhu</i></p> <p>181 - A Survey of Feature Selection and Feature Extraction Techniques in Machine Learning <i>Authors: Samina Khalid, Tehmina Khalil, Shamila Nasreen</i></p>	<p>28 - Where to Ask and How to Ask? The Case of Community Question Answering Sites <i>Authors: Alton Y. K. Chua, Snehasish Banerjee</i></p> <p>150 - Reducing Cognitive Workload During 3D Geometry Problem Solving with an App on iPad <i>Authors: David BERTOLO, Jerome DINET, Robin VIVIAN</i></p> <p>256 - Mobile Learning-system usage: An integrated framework to measure students' behavioural intention <i>Authors: Saleh Alharbi, Steve Drew</i></p> <p>301 - Empirical Study in Nigeria on effective implementation of Web 2.0 technology tools in learning: Case study of three Nigerian Higher institutions <i>Authors: Razep Echeng, Abel Usoro</i></p>	<p>262 - Fuzzy Matching Engine for Non-textual Authentication: a case study <i>Authors: J.M. Escano, J.C. Stockdale, J. Liang, A. Vakaloudis</i></p> <p>170 - Grounding the Component of Cyber Terrorism Framework Using the Grounded Theory <i>Authors: Zahri Yunos, Rabiah Ahmad, Mariana Yusoff</i></p> <p>218 - A survey of the mitigation methods against DoS attacks on MANETs <i>Authors: Albandari Alsumayt, John Haggerty</i></p> <p>233 - Intelligent phishing detection parameter framework for E-banking transactions based on Neuro-fuzzy <i>Authors: P. A. Barraclough, M.A. Hossain, G. Sexton, N. Aslam</i></p>

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4:30 pm – 6:00 pm

Session 6: Intelligent Systems (Discovery 1 Suite) Session Chair - Yaxin Bi	Session 7: Electronics (Discovery 2 Suite) Session Chair - Kohei Arai	Session 8: e-Business (Discovery 3 Suite) Session Chair - Peter Sapaty	Session 9: e-Learning (Atlantis 1 Suite) Session Chair - Dumitru Dan Burdescu	Session 10: Security (Atlantis 2 Suite) Session Chair - Amanda Peart
<p>151 - Creating an Intelligent Evaluation System for Cultural Intelligence <i>Authors: Zhao Xin Wu, Li Zhou</i></p> <p>236 - Survey on adaptation techniques of energy consumption within a smartphone <i>Authors: Khalil Ibrahim HAMZAOUI, Mostafa AZIZI, Gilles GRIMAUD, Mohammed BERRAJAA, Abdelkader BETARI</i></p> <p>243 - Feature selection in meta learning framework <i>Authors: Samar Shilbayeh, Sunil Vadera</i></p> <p>210 - Formation of Algorithms Module and Dynamic Interface in Web Mining and Storage Process to Retrieve Metadata <i>Authors: Bineet Kumar Gupta, Mohd Hussain, Neeraj Kumar Tiwari</i></p>	<p>159- FPGA Based Implementation of Pulse Parameters Measurement <i>Authors: RK Niranjan, B. Rajendra Naik</i></p> <p>191 - The Effect of Microlenses in Photodiodes' Dark Current Measurement <i>Authors: R. P. Rocha, M. J. Maciel, J. M. Gomes, J. H. Correia, J. P. Carmo</i></p> <p>364 - Multi-Spin Spacecraft and Gyrostats as Dynamical Systems with Multiscroll Chaotic Attractors <i>Authors: Anton V. Doroshin</i></p> <p>255 - A Hybrid Least Mean Square/Sample Matrix Inversion Algorithm Using Microstrip Antenna Array <i>Authors: Wael A. E. Ali, Adel H. G. Hassan</i></p>	<p>228 - The Impact of Usability on E-Marketing Strategy in Tourism Industry <i>Authors: Roobaea AlRoobaea, Pam J. Mayhew</i></p> <p>29 - Applauses in Hotel Reviews: Genuine or Deceptive? <i>Authors: Snehasish Banerjee, Alton Y. K. Chua</i></p> <p>56 - Sustainable E2 Mobility Services for Elderly People - Platform System Architecture <i>Authors: Djamel Khadraoui, Hedi Ayed, Damien Nicolas</i></p> <p>347 - Developing Reusable .NET Software Components <i>Authors: Muthu Ramachandran, Gopal Singh Jamnal</i></p>	<p>305 - Options of GPSS World for integrated demonstration models in the educational process <i>Authors: Svetlana Zhelyazkova Vasileva, Alina Kulchiar</i></p> <p>252 - A Framework for Rating Synchronous Video E-Learning Applications <i>Authors: Alex Vakaloudis, Juan Manuel Escaño</i></p> <p>274 - OpenGL assisted dynamically 4-Dimensional animation e-textbook associated with Perovskit di-electrics <i>Authors: Kazu-masa YAMADA, Nobuaki MATSUHASHI</i></p> <p>281 - The Use of Structural Modelling Methods for Analysis of Personalized Study Planning <i>Authors: Raita Rollande, Janis Grundspenkis, Antons Mislevics</i></p>	<p>284 - SMP-Based service matching <i>Authors: Hosam AlHakami, Feng Chen, Helge Janicke</i></p> <p>362 - Biometric Identity-Based Cryptography for e-Government Environment <i>Authors: Dania Aljeaid, Xiaoqi Ma, Caroline Langensiepen</i></p> <p>361 - Visual Secret Sharing with Meaningful Shares <i>Authors: Shyong Jian Shyu</i></p> <p>411 - Adaptive Authentication based on Analysis of User Behavior <i>Authors: Khairul Azmi Abu Bakar, Galoh Rashidah Haron</i></p>

THURSDAY, August 28, 2014

9:00 am – 10:00 am	Invited Speaker Address Professor Nikola Šerbedžija - Complexity of Autonomous Behaviors - If You were a Robot you would better Understand (Discovery Suite)				
10:00 am – 11:00 am	Invited Speaker Address Professor Mischa Dohler - The Dawn of Connected Machines (Discovery Suite)				
11:00 pm – 11:30 pm	Industrial Workshop Shraddha H. Shetty - “The cloud will change everything” - what is inhibiting this change? (Discovery Suite)				
11:30 am – 12:30 pm	Poster Presentation Session and Networking (Pre-Function Area)				
12:30 pm – 1:30 pm	Lunch (Bravo! Bravo! Restaurant)				
1:30 pm – 3:30 pm	Session 11: Intelligent Systems (Discovery 1 Suite)	Session 12 : Technology Trends (Discovery 2 Suite)	Session 13: e-Business (Discovery 3 Suite)	Session 14: Health Care Systems (Atlantis 1 Suite)	Session 15: Virtual Reality (Atlantis 2 Suite)
3:30 pm – 4:00 pm	PM Break and Networking (Pre-Function Area)				
4:00 pm – 6:00 pm	Session 16: Intelligent Systems (Discovery 1 Suite)	Session 17: Software Engineering (Discovery 2 Suite)	Session 18: Communication (Discovery 3 Suite)	Session 19: Health Care Systems (Atlantis 1 Suite)	Session 20: Security (Atlantis 2 Suite)

August 28, 2014

11:30 am – 12:30 pm

Poster Presentation Session

(Pre-Function Area)

Session Chairs: Kohei Arai and Peter Sapaty

165 - Information Privacy Risk Assessment of Facebook Graph Search

Authors: Deveshree Nayak, Summer Prince, Rosario Robinson

310 - Mobile Element Based Localization and Tracking Using Path-Loss Model in WSNs

Authors: Rashid Ahmed, John N. Avaritsiotis

344 - Stochastic and Time Dependent Shortest Path through an Urban Environment

Authors: Wedad Alhoula, Joanna Hartley

357 - Towards a New Approach for Video Database Semantic Annotation

Authors: Lamia Fatiha DALI YOUCEF, Abdelghani GHOMARI, Mohammed Yassine KAZI TANI

182 - Use of Transatlantic Telebroncoscopy to Confirm Proper Endotracheal Tube Placement During A Simulated Chemical, Biological, Radiological or Nuclear or Explosive (CBRNE) Event

Authors: Chad Branecki, Ben Boedeker, Michelle Schwedhelm, Elizabeth Beam, Major Ali Turabi, Colonel Shawn Nessen, David Boedeker

229 - Coexistence and Interference Tests on a Bluetooth Low Energy Front-End

Authors: Sergio Silva, Salviano Soares, Telmo Fernandes, Antonio Valente, Antonio Moreira

237 - Sense of presence in interacting with online exhibition

Authors: Jazmi Izwan Jamal, Zaihasriah Zahidi

177 - UARE :Using Reality-Virtually-Reality (RVR) Models to Construct Ubiquitous AR Environment for e-Learning Context

Authors: Jia Zhang, Huei-Tse Hou, Kuo-En Chang

104 - Performance Amelioration of Microstrip Patch Antennas using Superconducting Thin Films at the High Temperature of Transition

Authors: Abdelkrim Belhedri, Abderraouf Messai, Boualem Mekimah

359 - RTSVM: Real Time Support Vector Machines

Authors: Fahmi Ben Rejab, Kaouther Noura, Abdelwahed Trabelsi

413 - Virtual Reality Applications in Manufacturing System : A Review

Authors: Nur Suraya Sahol Hamid, Faieza Abdul Aziz, Amir Azizi

August 28, 2014

1:30 pm – 3:30 pm

Session 11: Intelligent Systems (Discovery 1 Suite) Session Chair - Dumitru Dan Burdescu	Session 12: Technology Trends (Discovery 2 Suite) Session Chair - Amanda Peart	Session 13: e-Business (Discovery 3 Suite) Session Chair - Peter Sapaty	Session 14: Health Care Systems (Atlantis 1 Suite) Session Chair - Kohei Arai	Session 15: Virtual Reality (Atlantis 2 Suite) Session Chair - Liming Chen
<p>167 - Practical Application of Bridge Rating Expert System to an Aged Bridge <i>Authors: Hisao Emoto, Jun Takahashi, Ayaho Miyamoto</i></p> <p>399 - Quantum Inspired Evolutionary Algorithms with Parametric Analysis <i>Authors: Amgad. M. Mohammed, N. A. Elhefnawy, Mahmoud. M. El-Sherbiny, Mohiy M.Hadhoud</i></p> <p>32 - Computation of All Possible Maximal Cliques of a Weakly Triangulated Graph in Polynomial Time <i>Authors: Sumana Bandyopadhyay, Rajat Kumar Pal</i></p> <p>53 - Rotation-invariant Silhouettes Recognition in the presence of occlusion <i>Authors: Amina AIT AOUDIA, Saliha AOUAT</i></p> <p>163 - Using Simulation to model SCM Of Libyan cement factory <i>Authors: Elbahlul.M.Abogrean</i></p>	<p>183 - Multi-Objective Evolution of Airline Networks Using Socioeconomic-Environmental Data <i>Authors: Hidefumi Sawai, Aki-Hiro Sato</i></p> <p>394 - Detecting Cognitive Stress from Keyboard and Mouse Dynamics during Mental Arithmetic <i>Authors: Yee Mei Lim, Aladdin Ayesh, Martin Stacey</i></p> <p>171 - Enabling Scalable Publish/Subscribe for Logical-Clustering in Crowdsourcing via MediaSense <i>Authors: Hasibur Rahman, Rahim Rahmani, Theo Kanter</i></p> <p>288 - GPU Cluster for Accelerated Processing and Visualisation of Scientific and Engineering Data <i>Authors: Matthew Newall, Violeta Holmes, Paul Lunn</i></p> <p>275 - An Effective Subsequence-to-Subsequence Time Series Matching Approach <i>Authors: Vineetha Bettaiah, Heggere S Ranganath</i></p> <p>245 - A Novel Phylogenetic Tree Data Visualization Application for Researchers <i>Authors: Shahzaib Tahir, Muhammad Tanvir Afzal</i></p>	<p>234 - Building a Conceptual Framework for Mobile Transaction in Saudi Arabia: A User's Perspective <i>Authors: Mohammed A. Alqahtani, Roobaea S. AlRoobaea, Pam J. Mayhew</i></p> <p>287 - An Empirical Investigation of IT Project Success in Developing Countries <i>Authors: Abdulaziz I. Almajed, Pam Mayhew</i></p> <p>114 - Information Management of a Global Reserve Currency <i>Authors: Mario W. Cardullo</i></p> <p>273 - Workflow Re-engineering through Introduction of Concurrency <i>Authors: Laird Burns, Wai Yin Mok, Wes N. Colley</i></p> <p>392 - The Reality of Applying Security in Web Applications in Education <i>Authors: Mohamed Al-Ibrahim, Yousef Shams Al-Deen</i></p>	<p>15 - Classification of Major Depressive Disorder Subjects using Pre-rTMS Electroencephalography Data with Support Vector Machine Approach <i>Authors: Turker Erguzel, Serhat Ozekes, Ali Bayram, Nevzat Tarhan</i></p> <p>64 - Predicting students blood pressure by Artificial Neuron Network <i>Authors: Shazada Muhammad Umair Khan, Javaria Manzoor Shaikh</i></p> <p>52 - Enhanced Leukemia Cancer Classifier Algorithm <i>Authors: Ahmed Abd El-Nasser, Mohamed Shaheen, Hesham El-Deeb</i></p> <p>48 - Experimenting the Dendrite Cell Algorithm for Disease Outbreak Detection Model <i>Authors: Mohamad Farhan Mohamad Mohsin, Abdul Razak Hamdan, Azuraliza Abu Bakar</i></p> <p>199 - Review of Machine Learning Techniques for Glaucoma Detection and Prediction <i>Authors: Tehmina Khalil, Samina Khalid, Adeel M. Syed</i></p>	<p>398 - Virtual Reality Medical Training System for Anatomy Education <i>Authors: Jannat Falah, Soheeb Khan, Salsabeel F. M. Alfalah, Tasneem Alfalah, Warren Chan, David K. Harrison, Vassilis Charissis</i></p> <p>204 - Merged Reality Systems <i>Authors: Ralph Moseley</i></p> <p>270 - Witness Computation for Solving Geometric Constraint Systems <i>Authors: Arnaud Kubicki, Dominique Michelucci, Sebti Foufou</i></p> <p>299 - Interactive Environment for Affective Visual Analysis of Large Data within Virtual Reality <i>Authors: Sergey V. Kovalchuk, Aleksey A. Bezgodov, Denis M. Terekhov, Alexander V. Boukhanovsky</i></p> <p>397 - Gait Analysis Data Visualisation in Virtual Environment <i>Authors: Salsabeel F. M. Alfalah, Warren Chan, Soheeb Khan, Jannat Falah, Tasneem Alfalah, David K. Harrison, Vassilis Charissis</i></p>

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4:00 pm – 6:00 pm

Session 16: Intelligent Systems (Discovery 1 Suite) Session Chair - Liming Chen	Session 17: Software Engineering (Discovery 2 Suite) Session Chair - Dumitru Dan Burdescu	Session 18: Communication (Discovery 3 Suite) Session Chair - Amanda Peart	Session 19: Health Care Systems (Atlantis 1 Suite) Session Chair - Kohei Arai	Session 20: Security (Atlantis 2 Suite) Session Chair - Peter Sapaty
<p>395 - Detecting Emotional Stress during Typing Task with Time Pressure <i>Authors: Yee Mei Lim, Aladdin Ayeshe, Martin Stacey</i></p> <p>189 - Probabilistic Roadmaps and Hierarchical Genetic Algorithms for Optimal Motion Planning <i>Authors: Abdelhalim Lakhdari, Nouara Achour</i></p> <p>190 - Correlated Community Estimation Models Over a Set of Names <i>Authors: Suresh Veluru, Yogachandran Rahulamathava, Suresh Manandhar, Muttukrishnan Rajarajan</i></p> <p>238 - Time Efficient Demon Algorithm for Graph Coloring with Search Cut-off Property <i>Authors: Amani A. Alahmadi, Taghreed M. Alamri, Manar I. Hosny</i></p> <p>282 - Data structures and algorithms for topological analysis <i>Authors: Jean-Marc CANE, George M.TZOMAS, Dominique MICHELUCCI Le2i, Marta HIDALGO, Sebti FOUFOU</i></p> <p>86 - Constructing a Uyghur Language Semantic Lexicon Based On WordNet <i>Authors: Rena Aierken, Li Xiao, Anwar Tohti, Zhang Mao Jiang</i></p>	<p>279 - Process for the development of Embedded System following the practices of CMMI Level 2 <i>Authors: Magda A. Silverio Miyashiro, Mauricio G. V. Ferreira</i></p> <p>313 - Utility Evaluation of a Component Model Selection Framework <i>Authors: Hazleen Aris</i></p> <p>132 - Enterprise Application Integration as a Middleware: Modification in Data & Process Layer <i>Authors: Abdullah AL-Malaise AL-Ghamdi, Farrukh Saleem</i></p> <p>192 - Externalist Philosophy and Interaction: Proposal of Heuristics for the Design of Interactive Systems <i>Authors: Beatriz de Almeida Pacheco, Ilana de Almeida Souza-Concilio</i></p> <p>354 - Defining and Formalising Project Management Models and Processes <i>Authors: Ravinder Singh, Kevin Lano</i></p>	<p>303 - Implementation of Trusted Multitier method for Intrusion Detection in Mobile ad Hoc Networks with DSR Algorithm <i>Authors: Sunil Phulre, Pratima Gautam, Sadhna K. Mishra</i></p> <p>50 - Elevation impact on Signal to Spectral Noise Density Ratio for Low Earth Orbiting Satellite Ground Station at S-Band <i>Authors: Shkelzen Cakaj, Bexhet Kamo, Argenti Lala, Alban Rakipi</i></p> <p>122 - Algorithm for Seamless Vertical Handover in Heterogeneous Mobile Networks <i>Authors: Omar Khattab, Omar Alani</i></p> <p>166 - Non linearity equalization for coherent optical OFDM modem <i>Authors: Sofien Mhatli, Bechir nsiri, Mutsam.A.Jarajreh, Malek channoufi, Rabah Attia</i></p> <p>351 - Multi-Platform Performance Evaluation of Digital Fountain Based Transport <i>Authors: Zoltan Moczar, Sandor Molnar, Balazs Sonkol</i></p> <p>314 - Variable Size Burst Routing Technique for Burst Loss Reduction in OBS networks <i>Authors: Amit Gupta</i></p>	<p>226 - Ontology Based DataBase for Computer Medical System <i>Authors: Zina Nakhla, Kaouther Noura</i></p> <p>272 - Mobile application KneeCare to support knee rehabilitation <i>Authors: Lakhveer Bhachu, Larisa N. Soldatova, Irena Spasic, Kate Button</i></p> <p>332 - Modeling and Enforcing Security and Service Control Policies using FlexRFID Middleware <i>Authors: Mehdi Ajana El Khaddar, Mhammed Chraïbi, Hamid Harroud, Mohammed Boulmalf, Mohammed Elkoutbi, Abdelilah Maach</i></p> <p>278- Robust Biomarker Discovery for Cancer Diagnosis Based on Meta-Ensemble Feature Selection <i>Authors: Anouar BOUCHEHAM, Mohamed BATOUCHE</i></p> <p>365 - ECG Signal Compression using Hybrid 1D and 2D Wavelet Transform <i>Authors: Surekha K.S, B. P. Patil</i></p>	<p>202 - Using MetaXA for Theft Detection <i>Authors: Irina Astrova, Carsten Kleiner, Arne Koschel, Stefan Nitz</i></p> <p>335 - Intrusion Detection in SCADA systems using Machine Learning Techniques <i>Authors: Leandros A. Maglaras, Jianmin Jiang</i></p> <p>355 - Intrusion detection system using genetic algorithm <i>Authors: Salah Eddine Benaïcha, Lalia Saoudi, Salah Eddine Bouhouita Guermeche, Ouarda Lounis</i></p> <p>356 - Factors in Sharing Sensitive Security Information <i>Authors: Ian Bryant</i></p> <p>379 - A new algorithm for detecting SQL injection Attack in Web application <i>Authors: Ouarda Lounis, Salah Eddine Bouhouita Guermeche, Lalia Saoudi, Salah Eddine Benaïcha</i></p>

FRIDAY, August 29, 2014

9:00 am – 10:00 am	Invited Speaker Address Professor Frank Zhigang Wang - How will computers evolve over the next 10 years? (Discovery Suite)				
10:00 am – 11:00 am	Invited Speaker Address Professor Kohei Arai - Computer input with human eyes only and its applications (Discovery Suite)				
11:00 am – 11:30 am	AM Break and Networking (Pre-Function Area)				
11:30 am – 12:30 pm	Tutorial Address Tariq Jamil - An Introduction to Complex Binary Number System and Associative Dataflow Processor (Discovery Suite)			Tutorial Address Peter Sapaty - Using Spatial Grasp Technology for Solving Complex National and International Problems (Atlantis Suite)	
12:30 pm – 1:30 pm	Lunch (Bravo! Bravo! Restaurant)				
1:30 pm – 3:00 pm	Session 21: Intelligent Systems (Discovery 1 Suite)	Session 22: Machine Vision (Discovery 2 Suite)	Session 23: Communication (Discovery 3 Suite)	Session 24: Social Computing (Atlantis 1 Suite)	Session 25: Electronics (Atlantis 2 Suite)
3:00 pm – 3:30 pm	PM Break and Networking (Pre-Function Area)				
3:30 pm – 5:30 pm	Session 26: Security (Discovery 1 Suite)	Session 27: Machine Vision (Discovery 2 Suite)	Session 28: Neural Networks (Discovery 3 Suite)	Session 29: Social Computing (Atlantis 1 Suite)	Session 30: Technology Trends (Atlantis 2 Suite)
5:30 pm – 6:00 pm	Conference Closing (Discovery Suite)				

August 29, 2014

1:30 pm – 3:00 pm

Session 21: Intelligent Systems (Discovery 1 Suite) Session Chair - Liming Chen	Session 22: Machine Vision (Discovery 2 Suite) Session Chair - Peter Sapaty	Session 23: Communication (Discovery 3 Suite) Session Chair - Amanda Peart	Session 24: Social Computing (Atlantis 1 Suite) Session Chair - Yaxin Bi	Session 25: Electronics (Atlantis 2 Suite) Session Chair - Kohei Arai
<p>293 - Using DL-Reasoner for Hierarchical Multilabel Classification applied to Economical e-News <i>Authors: David WERNER, Nuno SILVA, Christophe CRUZ, Aurelie BERTAUX</i></p> <p>386 - Intelligent Fuzzy Classifier for Pre-Seizure Detection from Real Epileptic Data <i>Authors: Mohamed Shakir, Aamir Saeed Malik, Nidal Kamel, Uvais Qidwai</i></p> <p>65 - Traversing directed cyclic and acyclic graphs using modified BFS algorithm <i>Authors: Ishwar Baidari, Ajith Hanagawadimath</i></p> <p>197 - TLNL: A Novel Two Level Node Labeling algorithm for Frequent Pattern Trees <i>Authors: R.Siva Rama Prasad, N.S.Kalyan Chakravarthy, D.Bujji Babu</i></p>	<p>231 - Parallelepipedic Shape Modeling for Moving Objects in Video Surveillance System <i>Authors: Amal Ben Hamida, Mohamed Koubaa, Chokri Ben Amar, Henri Nicolas</i></p> <p>377 - An ontology based approach for inferring multiple object events in surveillance domain <i>Authors: Mohammed Yassine KAZI TANI, Abdelghani GHOMARI, Hacene BELHADEF, Adel LABLACK, Ioan Marius BILASCO</i></p> <p>152 - New Computational Complexity Analysis for Spatial Segmentation Algorithm <i>Authors: Dumitru Dan BURDESCU, Marius BREZOVAN, Liana STANESCU, Cosmin STOICA SPAHIU</i></p> <p>300 - Comparative Study of Leaf Image Recognition with a Novel Learning-based Approach <i>Authors: Jou-Ken Hsiao, Li-Wei Kang, Ching-Long Chang, Chih-Yang Lin</i></p>	<p>25 - BCP: A Border Coverage Protocol for Wireless Sensor Networks <i>Authors: AliDabba, Rachid Beghdad</i></p> <p>21 - Renyi entropy dimension of the mixture of measures <i>Authors: Marek Smieja, Jacek Tabor</i></p> <p>54 - Time- Dependent Exchange Perturbation Theory <i>Authors: Elena V. Orlenko, Fedor E. Orlenko</i></p> <p>337 - Maximizing Bandwidth in Wireless Sensor Networks using TDMA Protocol <i>Authors: Tarek Azizi, Rachid Beghdad</i></p>	<p>96 - Identifying Multi-Regime Behaviors of Memes in Twitter Data <i>Authors: Christopher Griffin, Anna C. Squicciarini, Steven Styer</i></p> <p>99 - Comparing and Evaluating the Sentiment on Newspaper Articles: A Preliminary Experiment <i>Authors: S Padmaja, S Sameen Fatima, Sasidhar Bandu, Pooja Kosala, M C Abhignya</i></p> <p>297 - An Exploration of Semantic Tendencies in Word of Mouth Business Reviews <i>Authors: David W. Vinson, Rick Dale</i></p> <p>85 - Utilizing Deep Learning for content-based community detection <i>Authors: Hassan Abbas Abdelbary, Abeer Mohamed ElKorany, Reem Bahgat</i></p>	<p>59 - Hardware Realization of Discrete Convolution Using CORDIC and Vedic Multiplier <i>Authors: Prabha S. Kasliwal, Gaurav Bhand, B.P. Patil</i></p> <p>264 - A Novel Low Power Hybrid Flipflop using Sleepy Stack Inverter Pair <i>Authors: Helga Evangelene, Rajkumar Sarma</i></p> <p>24 - Position Based Energy-Efficient Clustering Protocol under Noisy Environment for sensor Networks using Fuzzy Logic Technique <i>Authors: Ravendra Singh, Itika Gupta, A. K. Daniel</i></p> <p>63 - Design of Quantum Gravity Sensor by Curvature Energy and their Encoding <i>Authors: Francisco Bulnes</i></p>

August 29, 2014

3:30 pm – 5:30 pm

Session 26: Security (Discovery 1 Suite) Session Chair - Liming Chen	Session 27: Machine Vision (Discovery 2 Suite) Session Chair - Dumitru Dan Burdescu	Session 28: Neural Networks (Discovery 3 Suite) Session Chair - Kohei Arai	Session 29: Social Computing (Atlantis 1 Suite) Session Chair - Peter Sapaty	Session 30: Technology Trends (Atlantis 2 Suite) Session Chair - Amanda Peart
<p>Paper 89 - An Innovative Framework for Collaborative Intrusion Alert Correlation <i>Authors: Huwaida Tagelsir Ibrahim Elshoush</i></p> <p>18 - Experimental Study of Thumbprint-Based Authentication Framework for ATM Machines <i>Authors: Iwasokun Gabriel Babatunde, Akinyokun Oluwale Charles, Dehinbo Johnson Olumuyiwa</i></p> <p>249 - Enhancing Detection Rate in Database Intrusion Detection System <i>Authors: Udai Pratap Rao, Nikhil Kumar Singh, Akash R. Amin, Kushal Sahu</i></p> <p>410 - A Case Study on Web Application Vulnerability Scanning Tools <i>Authors: Nor Izyani Daud, Khairul Azmi Abu Bakar, Mohd Shafiq Md Hasan</i></p> <p>22 - CAC-UA: a Communicating Ant for Clustering to detect Unknown Attacks <i>Authors: Mokrane Kemiche, Rachid Beghdad</i></p>	<p>71 - A Fully Visual Based Business Document Classification System <i>Authors: Ignazio Infantino, Umberto Maniscalco, Dario Stabile, Filippo Vella</i></p> <p>76 - ParFor and Co-Distributor Parallel Approaches for Implementing Fractal Image Compression Based Genetic Algorithm <i>Authors: Omaira N. Ahmad AL-Allaf</i></p> <p>179 - Performance Evaluation of Quality Measurement for Super-Resolution Satellite Images <i>Authors: Hatem Magdy Keshk, Ashraf S. Ali, Moustafa Abdel-Aziem M., M.A.Assal</i></p> <p>111 - A Model for Work Distribution in Global Software Development Based on Machine Learning Techniques <i>Authors: Abdulrhman Alsri, Sultan Almuhammadi, Sajjad Mahmood</i></p>	<p>7 - Artificial Intelligence Theory <i>Authors: Vitaliy Yashchenko</i></p> <p>161 - Arguments for Nested Patterns in Neural Ensembles <i>Authors: Kieran Greer</i></p> <p>342 - Surrogate Reservoir Modeling– Prediction of Bottom-Hole Flowing Pressure using Radial Basis Neural Network <i>Authors: Paras Q. Memon, Suet-Peng Yong, William Pao, Pau J. Sean</i></p> <p>224 - An on - line learning algorithm using the decomposition and coordination of a neural network <i>Authors: Stanislaw Placzek</i></p> <p>138 - Linear, Fuzzy and Neural Networks models for definition of baseline consumption <i>Authors: Henrique R. M. L. Pombeiro, Carlos A. S. Silva</i></p>	<p>113 - Design and Architecture of a Friend Recommender System in the Social Bookmarking Domain <i>Authors: Matteo Manca, Ludovico Boratto, Salvatore Carta</i></p> <p>33 - Exploring Relevance Assessment using Crowdsourcing for Faceted and Ambiguous Queries <i>Authors: Sri Devi Ravana, Parnia Samimi, Parisa Dabir Ashtyani</i></p> <p>94 - Suicide Detection System Based on Twitter <i>Authors: KASTURI DEWI VARATHAN, NURHAFIZAH TALIB</i></p> <p>367 - New Information Retrieval Model <i>Authors: Shawki A. Al-Dubae</i></p> <p>206 - Objective Information Theory: A Sextuple Model and 9 Kinds of Metrics <i>Authors: Jianfeng Xu, Jun Tang, Xuefeng Ma, Bin Xu, Yanli Shen, Yongjie Qiao</i></p> <p>321 - Process Recommendation and Role Assignment in Social Business Process Management <i>Authors: Mohammad Ehson Rangiha, Bill Karakostas</i></p>	<p>230 - Safety Analysis of Clinical Workflows: The Case of the Workflow within a Radiology Department <i>Authors: Lamis Al-Qoran, Septavera Sharvia, Neil Gordon, Martin Walker</i></p> <p>235 - MCACC: New Approach for Augmenting the Computing Capabilities of Mobile Devices with Cloud Computing <i>Authors: Mostafa A. Elgendy, Ahmed Shawish, Mahmoud I. Moussa</i></p> <p>271 - Clique Structure and Node-Weighted Centrality Measures for Predicting Distribution Centre Location in the Supply Chain Management <i>Authors: Amidu A. G. Akanmu, Frank Z. Wang, Fred A. Yamoah</i></p> <p>82 - A Quantitative Analysis of Cloud Users' Satisfaction and Data Security in Cloud Models <i>Authors: Munwar Ali Zardari, Low Tang Jung, Nordin Zakaria</i></p> <p>212 - Contextual Transition System for π-calculus <i>Authors: Masaki Murakami, Takami Sasaki</i></p> <p>242 - Integration of Material Flow Cost Accounting and ERP Software <i>Authors: Mei Sun, Yongchao Sun</i></p>

Free Post Conference London Tour (Optional)

SATURDAY, August 30, 2014

09:30 am – 09:50 am	Pickup from Park Inn by Radisson, Hotel and Conference Centre, London Heathrow
09:50 am – 10:00 am	Departure from Park Inn by Radisson, London Heathrow
10:30 am – 12:30 pm	Panoramic tour into London, seeing South Kensington Museums, Harrods, Buckingham Palace, Big Ben and the Houses of Parliament, Trafalgar Sq.
12:30 pm – 01:45 pm	Stop for lunch at Covent Garden where the group has free time to get a bite to eat or perhaps a little shopping.
01:45 pm – 03:00 pm	Depart for the panoramic tour of the City of London. Seeing Fleet Street, St Pauls Cathedral, Tower Bridge and the Tower of London.
03:00 pm – 03:30 pm	Thames River cruise from Tower of London to Westminster
03:35 pm	Disembark Those who wish to drop off at Central London can leave the tour at this point
05:15 pm	Drop-off at Park Inn Hotel and Conference Centre, London Heathrow

Presentation Guidelines

Paper Presenters

1. All presenters of oral presentations must report to the session chair in advance of each session.
2. Presenters can either use the laptop provided in each room (PC) or connect their own laptop to the projector. If you are bringing your own computer to connect to the projector: a VGA cable with male connector will be provided for hooking up your laptop. Most computers require an adapter that varies by brand (Mac/PC) and even by model. Please ensure you bring the proper adapter that will fit your computer (no adapters will be available on site). It would be a good idea to arrive at the room 20 minutes early to test connecting your computer to the projector, so as not to delay the presentation during the actual session.
3. If using the conference-provided laptop, presentations should be uploaded from USB flash drive/pen drive during the break before the beginning of the sessions at the latest. Only Power Point presentations (.ppt/.pptx) and Adobe Acrobat files (.pdf) will be accepted, as the available software includes Microsoft Office and Adobe Acrobat Reader. If you have a video or audio file embedded in the presentation we recommend using a standard video and audio codec compatible with Microsoft PowerPoint.
4. Some of the lecture presentations will be given in quite large lecture halls. We recommend that you prepare your slides according to the conference guidelines to ensure that the entire audience will be able to see your presentation. Your Session Chair may contact you in advance of the conference to request copies of your visual aids for approval before the conference.
5. Presentation time is critical; each paper is allocated 20 minutes for lecture sessions. This time includes setup and questions. We recommend that presentation of your slides should take about 15 minutes, leaving 5 minutes for setup, introduction, summary, and questions from the audience.
6. A reasonable strategy is to allocate about 2 minutes per slide when there are equations or important key points to make, and one minute per slide when the content is less complex. Slides attract and hold attention, and reinforce what you say – provided you keep them simple and easy to read. Plan on covering at most 6 points per slide, covered by 6 to 12 spoken sentences and no more than about two spoken minutes.
7. Make sure each of your key points is easy to explain with aid of the material on your slides. Do not read directly from the slide during your presentation. You shouldn't need to prepare a written speech, although it is often a good idea to prepare the opening and closing sentences in advance. It is very important that you rehearse your presentation in front of an audience before you give your presentation.

Poster Presenters

1. Posters will have dedicated sessions during the conference.
2. Please assure the poster is placed on the board before the beginning of the poster session. Authors are required to stand by their posters during the whole poster session.
3. The poster size must not exceed the A0 (84 cm X 118 cm) portrait format. Please use an appropriate font size for the posters so that they are readable by the participants 1.5 meter away. The poster message should be clear and understandable without oral explanation.
4. The poster presenter must bring the poster already printed. There is no provision to print the poster near or at the venue.
5. There will be provision of Thumb Pins at the venue. If you would like to setup your poster in another manner, kindly bring along the necessary items.

Have a great trip back home and see you next year in Science and Information Conference 2015!