SCIENCE AND INFORMATION CONFERENCE 2015

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Conference Programme

Science and Information Conference 2015

July 28-30, 2015

London, United Kingdom

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Contents

About the Conference

The 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.

The Science and Information Conference 2015 features specialized keynote lectures, knowledge talks, contributed papers, poster presentations, industrial talks, and tutorials. Its drive is to convene a high quality, well-attended, and up-to-date conference on technology and research. The keynote speakers are a diverse group with expertise in High Performance Computing and Networking, Informatics and Computing, Electrical Engineering and Computer Science, and Internet of Things.

The conference is hosted by The Science and Information Organization, and is being sponsored by Nvidia and IEEE. The IET, Future & Emerging Technologies (FET) at the European Commission, EUREKA, Cambridge Wireless, British Computer Society, Digital Catapult and Springer are the knowledge partners while International Innovation is the Media Partner for this conference.

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!

Conference Venue is America Square Conference Centre
Address: 1 America Square 17 Crosswall
London EC3N 2LB, United Kingdom

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Sponsor

NVIDIA awakened the world to computer graphics when it invented the GPU in 1999. Industry and academia are using GPUs for machine learning to make groundbreaking improvements across a variety of applications including image classification, video analytics and speech recognition. GPUs perform many calculations at once, speeding up processes that could otherwise take a year or more to just weeks or days.

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Keynote Speakers

Thomas Sterling

Indiana University

Keynote Talk - July 28, 2015 | 9:00 AM

Dr. Thomas Sterling holds the position of Professor of Informatics and Computing at the Indiana University (IU) School of Informatics and Computing as well as serves as Chief Scientist and Executive Associate Director of the Center for Research in Extreme Scale Technologies (CREST). Since receiving his Ph.D from MIT in 1984 as a Hertz Fellow Dr. Sterling has engaged in applied research in fields associated with parallel computing system structures, semantics, and operation in industry, government labs, and academia. Dr. Sterling is best known as the "father of Beowulf" for his pioneering research in commodity/Linux cluster computing. He was awarded the Gordon Bell Prize in 1997 with his collaborators for this work. He was the PI of the HTMT Project sponsored by NSF, DARPA, NSA, and NASA to explore advanced technologies and their implication for high-end system architectures. Other research projects included the DARPA DIVA PIM architecture project with USC-ISI, the Cray Cascade Petaflops architecture project sponsored by the DARPA HPCS Program, and the Gilgamesh high-density computing project at NASA JPL. Thomas Sterling is currently engaged in research associated with the innovative ParalleX execution model for extreme scale computing to establish the foundation principles to guide the co-design for the development of future generation Exascale computing systems by the end of this decade. ParalleX is currently the conceptual centerpiece of the XPRESS project as part of the DOE X-stack program and has been demonstrated in proof-of-concept in the HPX runtime system software. Dr. Sterling is the co-author of six books and holds six patents. He was the recipient of the 2013 Vanguard Award.

Fahim Kawsar

Director, Internet of Things Research, Bell Laboratories, Alcatel-Lucent

Keynote Talk - July 28, 2015 | 10:00 AM

Dr. Fahim Kawsar leads the Internet of Things research activity at Bell Labs. His current work focuses on building human centred software architectures, applications and interaction tools with awareness technologies (sensor-actuator-perception algorithm) in the cross-section of Ubiquitous Computing and Human Computer Interaction. He has a keen interest in understanding what aspects of system infrastructure can be part of the user experience and what design and interaction rationales lead to such system. Fahim's work has been published widely in international books and journals, presented at conferences across the world and has had projects commissioned. Fahim has a PhD in Computer Science from Waseda University, has worked before at Nokia Research, and Lancaster University.

Karlheinz Meier

Heidelberg University

Keynote Talk - July 29, 2015 | 9:00 AM

Karlheinz Meier is a professor of experimental physics at Heidelberg University in Germany. He received his PhD in 1984 from Hamburg University. For more than 30 years he worked in experimental particle physics, contributing to several experiments at the CERN and DESY laboratories. He designed and implemented a large-scale data selection system for an LHC experiment at CERN: Since 2005 he has shifted his interest towards custom hardware implementations of neural circuits. He has initiated and led 2 major European initiatives in the field (FACETS and BrainScaleS) and is currently co-director of the Human Brain Project.

Muriel Médard

MIT - Massachusetts Institute of Technology

Keynote Talk - July 30, 2015 | 9:00 AM

Muriel Médard is the Cecil E. Green Professor of the Electrical Engineering and Computer Science Department at MIT. Professor Médard received B.S. degrees in EECS and in Mathematics in 1989, a B.S. degree in Humanities in 1990, a M.S. degree in EE 1991, and a Sc D. degree in EE in 1995, all from MIT. Her research interests are in the areas of network coding and reliable communications, particularly for optical and wireless networks. She was awarded the IEEE Leon K. Kirchmayer Prize (2002), the IEEE Communication Society and Information Theory Society Joint Paper Award (2009), and the IEEE William R. Bennett Prize (2009). She received the 2004 MIT Harold E. Edgerton Faculty Achievement Award. She was named a Gilbreth Lecturer by the NAE in 2007. She is a Fellow of IEEE, and past President of the IEEE Information Theory Society.

Geyong Min

University of Exeter

Keynote Talk - July 30, 2015 | 10:30 AM

Professor Geyong Min is a Chair in High Performance Computing and Networking with the Computer Science discipline in the College of Engineering, Mathematics and Physical Sciences at the University of Exeter, UK. His recent research has been supported by European FP6/FP7, UK EPSRC, Royal Academy of Engineering, Royal Society, and industrial partners including Motorola, IBM, Huawei Technologies, INMARSAT, and InforSense Ltd. Prof. Prof. Min is the Co-ordinator of two recently funded FP7 projects: 1) Quality-of-Experience Improvement for Mobile Multimedia across Heterogeneous Wireless Networks (QUICK); and 2) Cross-Layer Investigation and Integration of Computing and Networking Aspects of Mobile Social Networks (CLIMBER). As a key team member and participant, he has made significant contributions to several EU projects, such as 1) Design and Engineering of the Future Generation Internet (NoE-FGi), 2) Enabling Convergence of IP Multimedia Services over Next Generation Networks Technology (VITAL), and 3) Design and Engineering of the Next Generation Internet: Towards the Convergence of Multi-Service Heterogeneous Networks (NoE-NGi).

Knowledge Talks

Paul Galwas

Security Architect, Digital Catapult
Knowledge Talk - July 28, 2015 | 11:30 AM

Paul Galwas is the Digital Catapult's Security Architect. He has 15+ years experience in security R&D. At nCipher, Secerno and Cellcrypt, he worked on security protocols, secure identity, digital asset protection and secure payment systems, and with UK and US Governments on classified mobile security. He was an early member of Open Group Jericho Forum, and the Trusted Computer Group. At Computervision, Telxon and Prime, Paul developed early Wi-Fi technologies and mobile handheld systems, after spearheading 3D modelling and realistic imaging. He holds a PhD and MA in science from Cambridge University.

Bob Crooks

Department for the Environment Food and Rural Affairs (Defra), UK Government & British Computer Society
Knowledge Talk - July 28, 2015 | 12:00 PM

Since obtaining his Masters (distinction) in the Analysis and Design of Information Management Syste ms at the London School of Economics in 1981, Bob has been involved in all aspects of the IT profession including project management, software development, systems analysis and design, and training, and successfully led the procurement and implementation of fishing vessel tracking and reporting systems for the UK Fisheries Departments through three implementations. He is currently working for the UK's Department for the Environment Food and Rural Affairs (Defra) where he is their lead for Sustainable and Innovative use of ICT. Bob is deputy chair of the UK Cabinet Office's Green ICT Delivery Unit(GDU) where he heads up a working group on Green ICT metrics. He has led annual assessments for the GDU, contributing analyses to all its 3 Annual reports. A fourth annual round of assessments is now underway across all UK 17 central UK government departments. Bob chairs the British Computer Society's (BCS) Green ICT Specialist Group which promotes Green ICT practices across its membership of some 1,400 ICT professionals. He is a member of the Association of Project Managers (APM) as well as a BCS Chartered ICT professional.

Andrea Feltrin

European Commission - Future and Emerging Technologies (FET)
Knowledge Talk - July 29, 2015 | 10:15 AM

Dr Andrea Feltrin holds a M.S. degree with honours in Physics from Trieste University in Italy. His early research interests focused on laser optics and he developed them in the field of semiconductor optoelectronics earning a PhD from the Swiss Federal Institute of Technology in 2004. He was awarded a research grant to work on semiconductor material engineering for space solar cell applications at the Texas Centre for Advanced Materials (NASA sponsored research lab in Houston, USA). In 2006 he returned to Switzerland to lead a team at the University of Neuchatel that pioneered thin film silicon solar energy technologies setting up and implementing R&D projects with European industry. In 2010 he joined Kaneka, a leading Japanese solar energy and chemical corporation, as Chief Senior Researcher developing high efficiency silicon solar cells and managing the R&D project portfolio with partners in Europe and worldwide. Since 2013 he is Project Officer at the European Commission in the Future and Emerging Technologies (FET) Unit, where he joined the team implementing the exascale challenge of the High Performance Computing (HPC) strategy in H2020.

Peter Stollenmayer

Celtic Office Strategy Director of the Celtic-Plus, EUREKA
Knowledge Talk - July 29, 2015 | 10:45 AM

Peter Stollenmayer has worked in telecommunications for more than 25 years. After he got his masters degree in electrical engineering from the University of Stuttgart in 1981, he worked with Deutsche Telekom (at that time “Deutsche Bundespost“) in the areas of PABXs and ISDN standards. He was involved in standardising ISDN-PABXs from the very early days. He was member of the ETSI Board and of the ETNO strategic group on standardisation issues from 1996 to 1998. In 1997 he changed to Eurescom, where he has led many projects in the area of telecommunication users and markets. He was coordinator of the FP6 Integrated Projects NM2 (New Media for a New Millennium), TA2 (Together Anywhere, Together Anytime) and Vconect (Video Communication for Networked Communities). Since mid-2014 he has been strategic director of the Celtic Office, hosted by Eurescom.

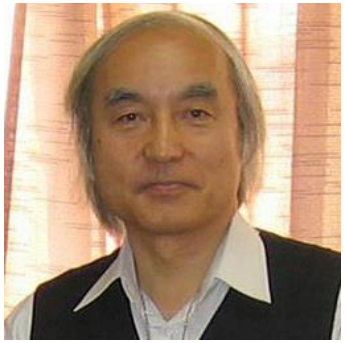
Peter Whale

Board member, Cambridge Wireless & Director of Product Marketing, Iotic-Labs
Knowledge Talk - July 29, 2015 | 11:30 AM

Peter is an accomplished leader in innovation and technology with a track record of conceiving and commercialising breakthrough technology-based products. Peter is Director of Product Marketing with Iotic Labs Ltd, a disruptive start-up with a vision to enable Things to interact on the Internet just like people do. Previously Director of Product Management with Qualcomm Technologies Incorporated, Peter was responsible for innovation and product commercialisation of IP in the field of machine learning into a portfolio of products that have benefited millions of users every day around the globe. Prior to Qualcomm, Peter was a key member of the leadership team at TTPCom, which played an early and pivotal role in the development of digital GSM and the emergence of Internet-enabled mobile phones. Peter developed and sold software solutions shipped in over 100 million handsets, and managed relationships with a number of blue chip customers. Peter has been a board member of CW (Cambridge Wireless) since 2009. Peter is a long-standing SIG Champion of the Future Devices SIG, and has conceived and delivered many innovative and successful events along with his fellow co-champions. Peter is co-author of Essentials of Mobile Handset Design, published by Cambridge University Press, a book that addresses the complex blend of design and technology factors needed to create great mobile devices.

Tutorial

Kohei Arai



Saga University, Japan
Tutorial - July 30, 2015 | 11:30 AM

Dr Kohei Arai, a Scientist, Professor and Author. He is currently Professor at Saga University, Japan and Adjunct Prof. of the University of Arizona, USA since 1998. 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. 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. He wrote 31 books and published 490 journal papers and 390 of conference papers.

Industrial Talk

Theo Priestley

Technology Speaker

Industrial Talk - July 30, 2015 | 11:30 AM

Theo Priestley is an independent technology evangelist and has been providing industry analysis and advisory services, opinion and commentary on technology and software trends since 2007. A senior technologist and advisor to the C-level, he is able to articulate and shape the IT roadmap and strategic direction of clients to take advantage of industry trends. Theo is an authority on BPM (Business Process Management) and trusted industry thought leader on the business and consumer impacts of Big Data, Cloud, Mobile and Social, M2M, Internet of Things as well as understanding future disruptive technologies. Theo was Vice President and Software AG's global Chief Technology Evangelist and previously consulted on small and large scale business and technology transformation projects.

Tuesday, July 28, 2015

7:30 am – 8:45 am	Registered Attendees Check-in				
8:45 am – 9:00 am	**Conference Opening** (Ludgate Suite)				
9:00 am – 10:00 am	**Keynote Address - The Paradigm Shift beyond Exascale Computing** Thomas Sterling, Indiana University (Ludgate Suite)				
10:00 am – 11:00 am	**Keynote Address - Network Intelligence Driven Behavior Modeling for a Connected World** Fahim Kawsar, Bell Laboratories, Alcatel-Lucent (Ludgate Suite)				
11:00 am – 11:30 am	AM Break and Networking (Cornhill Suite)				
11:30 am – 12:00 pm	**Knowledge Talk - Smart City opportunity: privacy-preserving citizen mobility services** Paul Galwas, Security Architect, Digital Catapult (Ludgate Suite)				
12:00 pm – 12:30 pm	**Knowledge Talk - Green ICT matters** Bob Crooks, Department for the Environment Food and Rural Affairs (Defra), UK Government & British Computer Society (Ludgate Suite)				
12:30 pm – 1:30 pm	**Lunch** (Cornhill Suite)				
1:30 pm – 3:30 pm	**Session 1: Intelligent Systems** (Ludgate Suite)	**Session 2: Technology Trends** (Walbrook Suite)	**Session 3: Machine Vision** (Fleet Suite)	**Session 4: Cloud Computing** (Bishopsgate Suite)	
3:30 pm – 4:00 pm	**PM Break and Networking** (Cornhill Suite)				
4:00 pm – 6:00 pm	**Session 5: Intelligent Systems** (Ludgate Suite)	**Session 6: Technology Trends** (Walbrook Suite)	**Session 7: Machine Vision** (Fleet Suite)	**Session 8: Communications** (Bishopsgate Suite)	**Session 9: Technology Trends** (Aldgate Suite)

July 28, 2015 1:30 pm – 3:30 pm			
Session 1: Intelligent Systems (Ludgate Suite) Session Chair: Yaxin Bi	**Session 2: Technology Trends** (Walbrook Suite) Session Chair: Haiming Liu	**Session 3: Machine Vision** (Fleet Suite) Session Chair: Kohei Arai	**Session 4: Cloud Computing** (Bishopsgate Suite) Session Chair: Taiwo Ayodele
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July 28, 2015 4:00 pm – 6:00 pm				
Session 5: Intelligent Systems (Ludgate Suite) Session Chair: Liming Chen	**Session 6: Technology Trends** (Walbrook Suite) Session Chair: Yaxin Bi	**Session 7: Machine Vision** (Fleet Suite) Session Chair: Taiwo Ayodele	**Session 8: Communications** (Bishopsgate Suite) Session Chair: Amanda Peart	**Session 9: Technology Trends** (Aldgate Suite) Session Chair: Peter Sapaty
115 - Extracting Sentiment from Healthcare Survey Data: An Evaluation of Sentiment Analysis Tools 130 - A New Perspective on Recommender Systems: a Class Path Information Model 131 - A Framework for Clustering Dental Patients' Records Using Unsupervised Learning Techniques 165 - Theory of Diffusion of Innovation for Analysis in Information Systems Studies 197 - User Interface to Automate the Collection and Processing of Data for Discrete Event Simulation Projects 199 - A Modified Simple Logistic Chaotic Map Through Exponential Controller in Nonlinear Term 216 - Exploiting Faculty Evaluation Forms to Improve Teaching Quality: An Analytical Review	166 - "Railway as a Thing" New Railway Control System in Egypt using IoT 210 - DroidSearch: A Tool for Scaling Android App Triage to Real-World App Stores 227 - Virtual Currency Concept its implementation, impacts and legislation 228 - Object Event Visibility for Anti-Counterfeiting in RFID-Enabled Product Supply Chains 233 - Social Commerce: A Literature Review 240 - A Multicriteria Analysis Approach for Benchmarking Smart Transport Cities 251 - Achieving Internet of Things Security via Providing Topological Sustainability 481 - Design of a Business Architecture in a Medium Metal Mechanic Firm	110 - A Measurement Method for the Mismatch Between the Image Target and Salient Points as a Metric for Image Complexity 181 - A Generalized Segmentation Approach for Texture Analysis and Matching 183 - A Novel Computer Vision-based Approach to Automatic Detection and Severity Assessment of Crop Diseases 191 - Towards Real-Time Obstacle Detection Using Stereo Images 195 - An Investigation into Physiological Responses in Driving Simulators: An Objective Measurement of Presence 239 - Natural Disaster Detection Using Wavelet and Artificial Neural Network 328 - Massively Parallel Ray Tracing Algorithm Using GPU	49 - A 100Gbps Data Link Layer with a Frame Segmentation and Hybrid Automatic Repeat Request 54 - Evolving Clustering Algorithms for Wireless Sensor Networks with Various Radiation Patterns to Reduce Energy Consumption 75 - Estimation of the Noise Immunity of Troposphere Communication Systems with OFDM Signals and Available Ways to Increase Ones Bit Error Ratio 109 - Enhanced Controller of Mobility for a New Generation of Mobile Laboratory 139 - Density and Mobility Impact on MANET Routing Protocols in a Maritime Environment 290 - Improving Frequency Band of Ultra Wide Band Antenna with Metamaterial 477 - An Advanced Wireless Medium Access Backoff Algorithm for MANETs	121 - Evolutionary and Meta-heuristic Solutions for Combinatorial Optimization n-Queens Problem 113 - Can Virtual-Reality Simulators Assess Experience and Skill Level of Orthopaedic Surgeons? 36 - Consumer Centric Dynamic Business Process Customization of Web Service using Ontology 152 - Framework for Integrating Outcome-Based Assessment in Online Assessment 255 - "Software Requirement Engineering", A New Leave Towards the Silver Bullet 452 - Personalizing Learning Materials for Students with Multiple Disabilities in Virtual Learning Environments 254 - Paranasal Sinusitis Detection using Thermal Imaging 190 - Automatic Detection of Malignant Neoplasm from Mammograms

Wednesday, July 29, 2015

8:45 am – 9:00 am	Welcome on Day 2 (Ludgate Suite)			
9:00 am – 10:00 am	**Keynote Address - Neuromorphic Computing in the Human Brain Project** Karlheinz Meier, Heidelberg University (Ludgate Suite)			
10:00 am – 10:15 am	AM Break and Networking (Cornhill Suite)			
10:15 am – 10:45 am	**Knowledge Talk - Funding disruptive technologies for European competitiveness and growth** Andrea Feltrin, European Commission - Future and Emerging Technologies (FET) (Ludgate Suite)			
10:45 am – 11:15 am	**Knowledge Talk - EUREKA and Celtic-Plus - Opportunities for Collaboration in R&D** Peter Stollenmayer, Celtic Office Strategy Director of the Celtic-Plus, EUREKA (Ludgate Suite)			
11:15 am – 11:30 am	Break and Networking (Cornhill Suite)			
11:30 am – 12:00 pm	**Knowledge Talk - The Future of Wireless will be nothing like the past** Peter Whale, Cambridge Wireless/ Director of Product Marketing, Iotic-Labs (Ludgate Suite)			
12:00 pm – 12:30 pm	**Poster Presentation Session and Networking** (Walbrook Suite)			
12:30 pm – 1:30 pm	**Lunch** (Cornhill Suite)			
1:30 pm – 3:30 pm	**Session 10: Intelligent Systems** (Ludgate Suite)	**Session 11: Technology Trends** (Walbrook Suite)	**Session 12: Machine Vision** (Fleet Suite)	**Session 13: Communications** (Bishopsgate Suite)
3:30 pm – 4:00 pm	**PM Break and Networking** (Cornhill Suite)			
4:00 pm – 6:00 pm	**Session 14: Intelligent Systems** (Ludgate Suite)	**Session 15: Technology Trends** (Walbrook Suite)	**Session 16: Security** (Fleet Suite)	**Session 17: Communications** (Bishopsgate Suite)

July 29, 2015
12:00 pm – 12:30 pm

Poster Presentation Session
(Walbrook Suite)
Session Chair : Amanda Peart

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88 - The Propagation Parameters on RFID- Localization Accuracy

92 - The Novel Rule Induction Approach to Dynamic Big Data in Green Energy

103 - Phishing Website Detection Fuzzy System Modelling

189 - Algorithmic Innovations in Extended Unbiased FIR Filtering of Nonlinear Models

205 - A Comparison of Relay Selection and Repetition Coding for Free-Space Optical Communication

230 - Unbiased FIR Smoother for Discrete Time-Variant Systems with Backward Structure

285 - Using Gradient Model to Compare Between Treatment Samples and Non-Treatment Samples

321 - Evaluation of Effects of Audio and Video of Mother on Sense of Security and Communicative Action of Children Staying at Home

345 - Design, Simulation and Realization of a Parametrizable, Configurable and Modular Asynchronous FIFO

377 - The Activity and Web Service of National Agricultural Biotechnology Information Center (NABIC) in Korea

379 - QoSBF: QoS Bootstrapping Framework

394 - MCIP: High Configurable 8-bit Microcontroller IP-Core

402 - Distribution of Accurate Time Over Fiber Data Network

475 - The Need of a New Computing Curricula, A Kuwait Case Study

July 29, 2015 1:30 pm – 3:30 pm			
Session 10: Intelligent Systems (Ludgate Suite) Session Chair: Yaxin Bi	**Session 11: Technology Trends** (Walbrook Suite) Session Chair: Taiwo Ayodele	**Session 12: Machine Vision** (Fleet Suite) Session Chair: Kohei Arai	**Session 13: Communications** (Bishopsgate Suite) Session Chair: Amanda Peart
218 - Toward an Optimal Use of Artificial Intelligence Techniques within a Clinical Decision Support System 220 - Measuring InfoVis' Decision Support Effectiveness: From Theory to Practice 224 - Dynamic Fuzzy System Design for Modeling and Control of Nonlinear Dynamical Processes 238 - Affective Analysis of Musical Chords 247 - Automatic Grapheme-to-Phoneme Conversion of Arabic Text 268 - A Machine-Learning Based Approach To Model User Occupancy And Activity Patterns For Energy Saving In Buildings 278 - A Fast Noise Resilient Anomaly Detection using GMM-Based Collective Labelling	256 - Successful or Unsuccessful Open Source Software Projects: What is the key? 291 - Personalizing Your Social Computing World: A Case Study Using Twitter 292 - PBStoHTCondor System for Campus Grids 308 - Information - Returning Power to the Masses 313 - Application System Design of Competence Model for Large Enterprise 316 - Users' Performance in Lab and Non-Lab Enviornmnets through Online Usability Testing 318 - Lexical Normalisation of Twitter Data	371 - Comparative Methods of Spike Detection in Epilepsy 386 - Improved Occlusion Handling for Human Detection from Mobile Robot 427 - Robust Feature Matching in the Wild 435 - Signature Automation of UMLS Concepts: An Un-Supervised Named Entity Recognition Framework for Classification of DNA and RNA in Biological Text 151 - Can Immersive Type of Virtual Reality Bring EMG Pattern Changes Post Facial Palsy? 213 - Development of Moving Target Detection Based on Image Processing Techniques 214 - Modelling of Pressure Ulcer (PU) Risk Prediction System	144 - Mobility Prediction Based on Collective Movement Behaviors in Public WLANs 177 - A Routing Algorithm Satisfied Ground Station Distribution Constraint for Satellite Constellation Network 187 - Wavelet Transforms Detection of Spectrum Sensing in the Space Network 219 - Nonlinearity Mitigation of Optical Fast-OFDM Signals Using a Wiener-Hammerstein Electrical Equalizer 296 - Analysis of Wiener-Hammerstein Equalizer for Downlink LTE System 299 - Improve the Capacity of the OFDMA-based Systems 302 - Load Balancing Enhancement in WMNs with New Routing Metric

July 29, 2015 4:00 pm – 6:00 pm			
Session 14: Intelligent Systems (Ludgate Suite) Session Chair: Liming Chen	**Session 15: Technology Trends** (Walbrook Suite) Session Chair: Yaxin Bi	**Session 16: Security** (Fleet Suite) Session Chair: Taiwo Ayodele	**Session 17: Communications** (Bishopsgate Suite) Session Chair: Amanda Peart
332 - Incorporating Semantics in Pattern-Based Scientific Workflow Recommender Systems 339 - Detection of Current Research Directions Based on Full-Text Clustering 353 - Decision Support for Occupational Risk Overcome in Maintenance Activities 392 - Scoring of Alternative Routes Using Implicit Building Topologies 401 - Twitter Mining for Traffic Events Detection 408 - High-Frequency Trading Strategies using Wavelet-transformed Order Book Information and Dynamic Bayesian Networks. 407 - Decoding, Hacking, and Optimizing Societies: Exploring Potential Applications of Human Data Analytics in Sociological Engineering, both Internally and as Offensive Weapons	112 - Can virtual-reality training on orthopaedic simulators improve performance in the operating room? 319 - Predictive Capacity of Meteorological Data - Will it rain tomorrow? 342 - Computing with Virtual Cellular Automata Collider 405 - Sociomaterial Configurations of Human and Non-Human Actors: Re-Inventing Family Trip Planning Through Imbrication of Services 458 - To Notify or Not to Notify: That is the Question 483 - Virtual Slides and Instant Sharing of Medical Diagnosis: Emerging Telepathology Practices at King Fahd Hospital 489 - Where is Information Society, it is Lost in the Knowledge Society: Survival Issues for Developing Countries in the Knowledge Society and Need of Knowledge Management nitiatives in the Education Sector 385 - Usability Concerns of Android Casual Game Applications:Analysis and Improvements	58 - Touchscreen Patterns Based Authentication Approach for Smart Phones 67 - Role of the Institutional Theory for Implementation Information Technology to Enhance Safety Management in Shipping Companies 89 - A Novel Approach to Worm Detection Systems 100 - Improved N-gram Approach for Cross-site Scripting Detection in Online Social Network 118 - Delegation Enabled Provenance-Based Access Control Model 119 - Foreniscs Analysis of Cloud Computing Services 167 - Android Malware Detection: An Eigenspace Analysis Approach	323 - QoS Framework for Mobile-to-Mobile Multimedia Streaming Applications 341 - Variable-Polarization Optical Feedback Induced High-Quality Polarization-Resolved Chaos Synchronization in VCSEL 438 - Performance Evaluation of OnehopMANET 441 - A New Channel Coding Network Coding Scheme for Two-Way Relay 460 - Voice Over Internet Protocol: A Collaborative Tool to Advance Communication Processes for Elderly People 480 - Evolutionary Algorithms for Cluster Heads Election in Wireless Sensor Networks: Performance Comparison 28 - A WDM Transmission Strategy and Node Architecture Suitable for Various Sizes IP Traffic in Ring MANs

Thursday, July 30, 2015

8:45 am – 9:00 am	Welcome on Day 3 (Ludgate Suite)				
9:00 am – 10:00 am	**Keynote Address - Stormy Clouds - security in distributed cloud systems** Muriel Médard, MIT - Massachusetts Institute of Technology (Ludgate Suite)				
10:00 am – 10:30 am	**AM Break and Networking** (Cornhill Suite)				
10:30 am – 11:30 am	**Keynote Address - Analytical Modelling and Quality-of-Service in Wireless Multimedia Networks** Geyong Min, University of Exeter (Ludgate Suite)				
11:30 am – 12:00 pm	**Industrial Talk - The Future of Work: How 100 children see technology improve their Working Life** Theo Priestley (Ludgate Suite)		**Tutorial - Rescue system with vital sign monitoring of sensor network** Dr Kohei Arai (Walbrook Suite)		
12:00 pm – 1:00 pm	**Lunch** (Cornhill Suite)				
1:00 pm – 3:15 pm	**Session 18: Intelligent Systems** (Ludgate Suite)	**Session 19: Software Engineering** (Walbrook Suite)	**Session 20: Security** (Fleet Suite)	**Session 21: Electronics** (Bishopsgate Suite)	**Session 22: e-Learning** (Aldgate Suite)
3:15 pm – 3:30 pm	**PM Break and Networking** (Cornhill Suite)				
3:30 pm – 5:30 pm	**Session 23: Intelligent Systems** (Ludgate Suite)	**Session 24: Software Engineering** (Walbrook Suite)	**Session 25: Security** (Fleet Suite)	**Session 26: Electronics** (Bishopsgate Suite)	**Session 27: Security** (Aldgate Suite)
5:30 pm – 6:00 pm	**Conference Closing and Prize Distribution** (Ludgate Suite)				

July 30, 2015
1:00 pm – 3:15 pm

Session 18: Intelligent Systems (Ludgate Suite) Session Chair: Yaxin Bi	**Session 19: Software Engineering** (Walbrook Suite) Session Chair: Taiwo Ayodele	**Session 20: Security** (Fleet Suite) Session Chair: Peter Sapaty	**Session 21: Electronics** (Bishopsgate Suite) Session Chair: Kohei Arai	**Session 22: e-Learning** (Aldgate Suite) Session Chair: Haiming Liu
426 - Ontology Based Clinical Decision Support System for Diabetes Diagnostic	52 - How Final is Java's final?	236 - Biometric linkage between identity document card and its holder based on real-time facial recognition (Demo Presentation)	46 - Incorporating FPGA-Based Labs within Digital Design Course–A Middle-Eastern Experience	108 - Dyslexia Adaptive e-Learning System Based on Multi-Layer Architecture
436 - Mining Survey Data on University Students to Determine Trends in the Selection of Majors	84 - Evaluating the Effectiveness of Problem Solving Techniques and Tools in Programming	184 - A Maturity Model for Part of the African Union Convention on Cyber Security	13 - Design of Low Power Single Stage CMOS Complementary Regulated Cascode Distributed Amplifier Based on Inuductive Coupling Technique	128 - The Effects of Teaching Primary School Children the Islamic Prayer in a Virtual Environment
445 - Selection of Fitness Function in Genetic Programming for Binary Classification	105 - Analyzing Test Case Quality with Mutation Testing Approach	188 - A Model for Secure Mobile Computing	41 - An 1 V - 1 nW Source Follower ISFET Readout Circuit For Biomedical Applications	211 - The Effects of Video Lecture Delivery Formats on Student Engagement
447 - Identifying Best Feature Subset for Cardiac Arrhythmia Classification	114 - CMMI-DEV Process Areas Modeled on a Process for Critical Embedded Systems Development	198 - A Chaos-Based Keyed Hash Function for Secure Protocol and Messege Authentication in Mobile Ad Hoc Wireless Networks	132 - Digital Sound Processing using Arduino and MATLAB	237 - Flexible and Extended IWS (Item Writing System) as a Part of INT-Test Design Software
463 - A Survey on How to Cross-Reference Web Information Sources	265 - Identifying the Challenges for Managing Component-Based Development in Global Software Development: Preliminary Results	201 - A Cost-Effective True Random Bit Generator Using a Pair of Robust Signum-Based Chaotic Maps	274 - Pulse Width Modulation (PWM) Method for Power Components Estimation Under Harmonic Distortion Conditions	280 - An Evaluation Framework for Mobile Health Education Software
465 - Multi Ant LA: An Adaptive Multi Agent Resource Discovery for Peer to Peer Grid Systems	270 - Enhanced HGS Algorithm (EHGSA) for Cost Reduction Regression Testing	225 - A Secure e-Government's e-Voting System	287 - A personal medical device for multi-sensor, remote vital signs collection in the elderly	304 - Enhancement of Interactivity using a New Lecturing System(IELS)
34 - Mobile Technology in Children Education: Analyzing Parents' Attitude Towards Mobile Technology for Children	272 - A Framework for Modelling Population Registration and National Identification System in Uganda	232 - Efficient Key Management Scheme to Enhance Security-Throughput Trade-off Performance in Wireless Networks	182 - Armchair Graphene Nanoribbon Photonics	317 - Reflexive Games in e-University
471 - A Simulation-based Optimization Approach for Healthcare Facility Location Allocation Decision	484 - Requirements Elicitation Issues and Project Performance: A Test of a Contingency Model		479 - FPGA Implementation of Satellite Image Fusion Using Wavelet Substitution Method	367 - Enhancing Student's Learning Experience at Middle East College by using Blended Learning
	478 - Ontological Approach to the Formal Specification of the Standard Life Cycle			

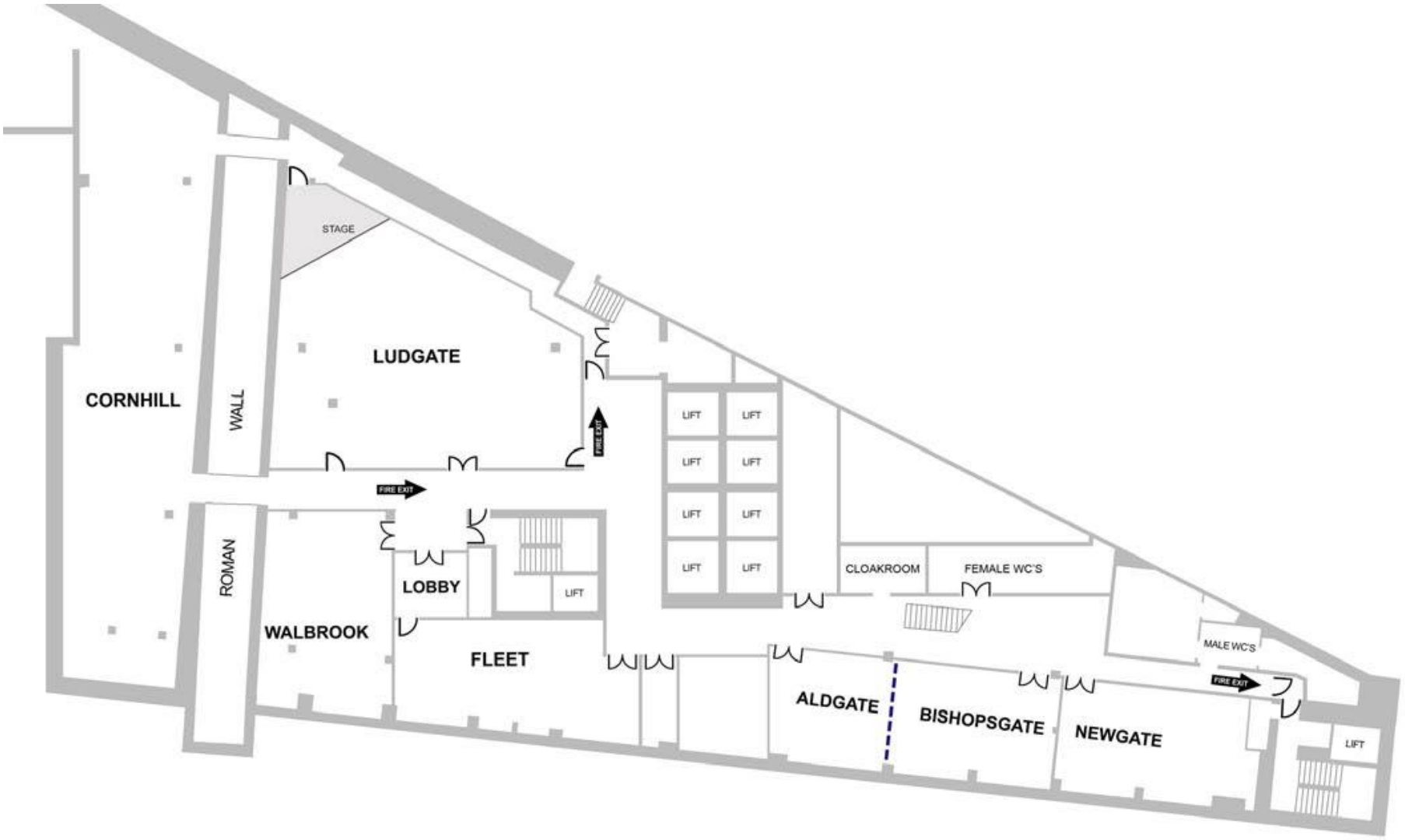
July 30, 2015 3:30 pm – 5:30 pm				
Session 23: Intelligent Systems (Ludgate Suite) Session Chair: Liming Chen	**Session 24: Software Engineering** (Walbrook Suite) Session Chair: Amanda Peart	**Session 25: Security** (Fleet Suite) Session Chair: Peter Sapaty	**Session 26: Electronics** (Bishopsgate Suite) Session Chair: Kohei Arai	**Session 27: Security** (Aldgate Suite) Session Chair: Taiwo Ayodele
442 - Toward a Knowledge-Based Model for Real-Time Business Intelligence 366 - Contrast Enhancement Algorithm for Colour Images 400 - Fuzzy Assessment Model for Operative Groups in Virtual Educational Forums 467- Identity maps and their extensions on parameter spaces: Applications to anomaly detection in video 403 - Neuro-fuzzy Classification of Transcranial Doppler Signals with Chaotic Meaures and Spectral Parameters 310 - Healthcare Navigation System 86- An Optimal Defuzzification Method for Interval Type-2 Fuzzy Logic Control Scheme	284 - Model-Driven Web Applications 293 - Lesson Learned Knowledge in Project Management 303 - Model Based Virtual Engineering Approach to Remanufacturing Design 306 - Optimized Web Design in the Saudi Culture 311 - The Time Profit Obtained by Parallelization of Quicksort Algorithm Used for Numerical Sorting 417 - Object Oriented Eco-Simulator System as Predictor & Exploratory System to Track Impact of Human Induced Activities on Environmental Resource 437 - Identifying Complex Functions By Investigating Various Aspects of Code Complexity	245 - An Integrated Approach to Fingerprint Indexing Using Spectral Clustering Based on Minutiae Points 267 - Efficiency of Network Event logs as Admissible Digital Evidence 298 - Online Phishing Detection Toolbar for Transactions 305 - Security Evaluation of Embedded Hardware Implementation 315 - Towards Middleware Security Framework for Next Generation Data Centers Connectivity 443 - Preservation of Digital Evidence: Application in Criminal Investigation 468 - A Study of Usability-Aware Network Trace Anonymization	314 - Implementation of HEVC Intra 4x4 Prediction on FPGA 412 - Power Balanced Circuits for Leakage-Power-Attacks Resilient Design 425 - Energy-Efficient Adaptive MIMO Decoders 454 - A Proposal to Estimate Seismic Risk on Buildings Using WSN 456 - Assistive Infrared Sensor Based Smart Stick for Blind People 192 - Return Loss Prediction for Category 8 Cable using Pseudorandom Impedance Generation 335 - Promote the Industry Standard of Smart Home in China by Intelligent Router Technology	235 - A New Vision for Intrusion Detection System in Information Systems 244 - Enhancing Cyber Safety Awareness among School Children in South Africa through Gaming 246 - Safe Haven in the Cloud: Secure Access Controlled File Encryption (SAFE) System 361 - Analysis and Combination of Positive Aspects of Threshold RG based VSS schemes 363 - Practical Polar Coding Method to Minimize the Embedding Impact in Steganography 429 - Long-Term Enhancement of the Operational Security of the Kosovo Power System by Applying the Augmented Deterministic Methodology

Free Post Conference London Tour (Optional)

Friday, July 31, 2015

09:00 am – 09:30 am	Pickup and from the America Square Conference Centre
09:30 am – 12:00 pm	Panoramic tour of London seeing all the major sights, Big Ben and the Houses of Parliament, Trafalgar Square, St Paul's Cathedral and Tower Bridge – to name but a few.
12:00 pm – 12:40 pm	You will then get to see the Changing of the Guard at Buckingham Palace (weather permitting).
01:00 pm – 02:30 pm	For lunch we will visit the area of Covent Garden with a huge array of restaurants, bars, shops and market stalls. You will have time to enjoy the area and see the street entertainers.
03:00 pm – 04:15 pm	After Lunch you will have a guided tour of the highlights of the British Museum. The British Museum is home to over 6 million artefacts from all over the world, and during your tour you will see some of the most famous including; the Rosetta stone, the Parthenon Sculptures, the Mummies, and the Assyrian Collection.
04:15 pm – 05:30 pm	Depart for the panoramic tour of the "City of London", our 2000 year old city seeing Fleet Street, St Paul's Cathedral, The Tower of London, Tower Bridge and the financial district.
05:30 pm	Drop-off at the America Square Conference Centre

Floor Plan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ROMAN
LOBBY
LIFT
WALBROOK
FLEET
MALE WC'S
FIRE EXIT
ALDGATE
BISHOPSGATE
NEWGATE
LIFT

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Yaxin Bi - University of Ulster, United Kingdom

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