

Tuesday 8 October 2013			
8:30-8:45	Welcome (Karen Bradshaw/John McNeill)		
8:45-9:45	Keynote 1: Dr. Carol Saunders, University of Central Florida (John McNeill)		
9:45-10:45	1: Algorithms (Elisha Ochola) <ul style="list-style-type: none"> A Comparison of Different Calculations for N-Gram Similarities in a Spelling Corrector for Mobile Instant Messaging Language, <i>L. Butgereit, R.A. Botha</i> Cooperating to buy shoes: An application of picking cycles in directed graphs, <i>I. Sanders</i> 	2: GPU Parallelism (James Gain) <ul style="list-style-type: none"> Evaluating the acceleration of typical scientific problems on the GPU, <i>D. Tristram, K. Bradshaw</i> Constructing a GPU Accelerated Virtual Machine for Massively Parallel Packet Classification and Filtering, <i>A. Nottingham, B. Irwin</i> 	3: Machine Learning (Aurona Gerber) <ul style="list-style-type: none"> A Comparison of Machine Learning Techniques for Handwritten Xam Word Recognition, <i>K. Williams, H. Suleman</i> Using Machine Learning to Predict the Driving Context whilst Driving, <i>P. Tchankue-Sielinou, J. Wesson, D. Vogts</i>
10:45-11:10	Tea		
11:10-12:30 Short Paper Sessions (20 mins)	SP1: Image Processing and Intelligent Systems (Janet Wesson) <ul style="list-style-type: none"> A New Mapping Function to Improve the Accuracy of a Video-Based Eye Tracker, <i>P. Blignaut</i> Using Poll Sheets and Computer Vision as an Inexpensive Alternative to Clickers, <i>J. Gain</i> Solving the 8-Puzzle Problem Using Genetic Programming, <i>K. Igwe, C. Rae, N. Pillay</i> 	SP2: Security and Hardware (Bruce Watson) <ul style="list-style-type: none"> Personally Identifiable Information Leakage through Online Social Networks, <i>C. Louw, S. Von Solms</i> UMS-Dev-Sec: a proposed framework to address security concerns of UMS devices, <i>K. Molotsi, B. Tait</i> Effectiveness with EEG BCIs: Exposure to traditional input methods as a factor of performance, <i>G. Dollman, L. De Wet, T. Beelders</i> Green16 — A frugal CPU architecture, <i>K. Naude</i> 	SP3: Information and Technology Services (Awie Leonard) <ul style="list-style-type: none"> Perceptions and expectations of IT service delivery post migration to a Microsoft platform at a University of Technology in South Africa, <i>N. Reddy, P. Singh, D. Petkov</i> Googling South African academic publications - search query generation methods, <i>M. Weideman</i> A Conceptual Model for Delivering Cost Effective Business Intelligence Solutions as a Service, <i>G. Muriithi, E. Kotze</i>
12:30-13:30	Lunch		
13:30-15:30	4: Mobile and Social Networking (Alta Van der Merwe) <ul style="list-style-type: none"> Categorizing the Provision of Mobile Centric Information Access and Interaction for Higher Learning Institutions, <i>B. Chipangura</i> Internet use and Degree of Flow experienced by expatriates in the Kingdom of Saudi Arabia, <i>M. Hattingh, M. Matthee, H. Lotriet</i> Crowd Computing: A Literature Review and Definition, <i>K. Parshotam</i> Sustainability of E-Participation Through Mobile Technology, <i>N.M. Ochara, T. Mawela</i> 	5: Tools (Pieter Blignaut) <ul style="list-style-type: none"> A new Tool for URDAD-to-Java EE EJB Transformations, <i>C. Edwards, S. Gruner</i> Quality and Usability of Mashup Tools: Criteria and Evaluation, <i>M. Malinga, S. Gruner, A. Koschmider</i> Flexible Design for Simple Digital Library Tools and Services, <i>L. Phiri, H. Suleman, J. Paihama</i> Experiences with using the Systematic Method for Architecture Recovery (SyMAR), <i>F. Solms</i> 	6: Image Processing and Graphics (Ian Sanders) <ul style="list-style-type: none"> An Integrated Sign Language Recognition System, <i>W. Nel, M. Ghaziasgar, J. Connan</i> Robust Facial Expression Recognition in the Presence of Rotation and Partial Occlusion, <i>D. Mushfieldt, M. Ghaziasgar, J. Connan</i> Robust Real-time Face Recognition, <i>B. Lagerwall, S. Viriri</i> Verification of Bidirectional Reflectance Distribution Function Implementations for Physical Plausibility, <i>B. Duvenhage, K. Bouatouch, D. Kourie</i>
15:30-16:00	Tea		
16:00-17:00	SAICSIT AGM		
19:00-late	Gala Dinner		

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8:30-9:30	Keynote 2: Dr. Adrian Tiplady, SKA Site Bid Manager (Karen Bradshaw)		
9:30-10:30	<i>Session 7: Neural Networks (Nelishia Pillay)</i> <ul style="list-style-type: none"> Design and Parametric Considerations for Artificial Neural Network Pruning in UCT Game Playing, <i>C. Burger, M. Du Plessis, C. Cilliers</i> Evaluating performance of long short-term memory recurrent neural networks on intrusion detection data, <i>R.C. Staudemeyer, C.W. Omlin</i> 		<i>Session 8: ICT4D (Kirstin Krauss)</i> <ul style="list-style-type: none"> Knowledge Management in LLiSA ICT4D Projects, <i>S. Conger</i> An Assessment of ICT Challenges in Rural Areas: ICT Experts Vs Rural Users Views: A Case of the Siyakhula Living Lab, <i>N. Jere, T. Boikhutso, N. Ndlovu</i>
10:30-11:00	Tea		
11:00-13:00	<i>Session 9: Education (Carina de Villiers)</i> <ul style="list-style-type: none"> A Case Study in the Gamification of a University-level Games Development Course, <i>S. O'Donovan, J. Gain, P. Marais</i> Design-based research — the educational technology variant of design research: Illustrated by the design of an m-learning environment, <i>R. de Villiers, P. Harpur</i> Ease Of Use and Usefulness of Webinars in an Open Distance Learning Environment: An Activity Theory Perspective, <i>M. van der Merwe, D. van Heerden</i> First Year Student Performance in a Test for Computational Thinking, <i>L. Gouws, K. Bradshaw, P. Wentworth</i> 	<i>Session 10: Algorithms (Andre Calitz)</i> <ul style="list-style-type: none"> A Comparative Study of Hyper-Heuristics for Solving the School Timetabling Problem, <i>N. Pillay</i> Cooperating to buy shoes in the real world: Online cycle picking in directed graphs, <i>I. Sanders</i> Peak and valley detection in multimodal functions by means of 3D normal metadata, <i>G.B. O'Reilly</i> 	<i>Session 11: Mobile and Networks (Laurie Butgereit)</i> <ul style="list-style-type: none"> The Failure of Watchdog Schemes in MANET Security: A Case of an Intelligent Black-Hole, <i>E. Ochola, M. Eloff, J. van der Poll</i> MIDD - An Architecture for Inter Domain Mobile Content Distribution, <i>T.D. Hibbers</i> An Integrated Logical Context Sensor for Mobile Web Applications, <i>F. Ntawanga</i>
13:00-14:00	Lunch		
14:00-15:30	<i>Session 12: Business Applications (Greg Foster)</i> <ul style="list-style-type: none"> Usability evaluation guidelines for Business Intelligence applications, <i>C. Jooste, J. van Biljon, J. Mentz</i> Comparative Paradigms in the Examination of Software Production, <i>J. Trimble, H. Keeling</i> The Usability of Collaborative Business Process Modelling Tools, <i>B. Scholtz, A. Calitz, I. Snyman</i> 		<i>Session 13: Computer Science (James Connan)</i> <ul style="list-style-type: none"> Sketch-based Interfaces: Drawings to Data, <i>D. Vogts, K. Naude, T. Matthews</i> Efficient representation of DNA data for pattern recognition using failure factor oracles, <i>L. Cleophas, D. Kourie, B. Watson</i> Hardware Evolution of a Digital Circuit using a Custom VLSI Architecture, <i>A. van Den Berg, F. Smith</i>
15:30-15:45	Conference Closing and Farewell (Karen Bradshaw/John McNeill)		
15:45-16:15	Tea		