

IEEE International Conference on Information Communications Technology and Society (IEEE ICTAS 2018)

Blue Waters Hotel, Marine Parade, Durban

Conference Programme for 8th and 9th March 2018

Day 1: 8 th March 2018			
08h30 to 09h00	Arrival tea		
09h00 to 09h15	Conference opening		
09h15 to 09h55	Keynote: Prof Anthony TS Ho (University of Surrey). Applications of multimedia security and forensic techniques for secure communication, protection and detection of data content. <i>Room: Fontainebleau</i>		
10h00 to 10h20	Tea break and networking		
10h20 to 12h25 (20 + 5 mins per presentation)	Room: Fontainebleau	Room: Cascades	Room: Concord
	Chair:	Chair:	Chair:
	Nureni Azeez and Charles Van der Vyver. Dynamic Patient-Regulated Access Control Framework for Electronic Health Information	Ronell van der Merwe and Judy van Biljon. Trends, drivers and barriers influencing Cloud Computing Services for mobile interactions in teaching and learning	Temitope Mapayi and Jules-Raymond Tapamo. Performance Comparison of Supervised Learning Methods for Retinal Vessel Tortuosity Characterisation
	Issah Ngomane, Mthulisi Velepini and Sabelo Velemseni Dlamini. The Detection of the Spectrum Sensing Data Falsification Attack in Cognitive Radio Ad Hoc Networks	Olakumbi Fadiran, Judy Van Biljon and Marthie Schoeman. How can visualisation principles be used to support knowledge transfer in teaching and learning?	Ima Essiet, Yanxia Sun and Wang Zenghui. A Novel Algorithm for optimizing the Pareto Set in Dynamic Problem Spaces
	Cynthia Sthembile Ntshangase and Meshack Bafana Shabalala. Encryption using finger-code generated from fingerprints	Sheethal Tom. Factors that affect the provision of Visually Impaired Learners in Higher Education	Benard Maake, Sunday Ojo and Tranos Zuva. A Comparative Analysis of Text Similarity Measures and Algorithms in Research Paper Recommender Systems
	Muyowa Mutemwa and Francois Mouton. Cyber Security Threats and Mitigation Techniques for Multifunctional Devices	Samwel Mwapwele and Dr Sumarie Roodt. Teacher's adoption and use of mobile devices outside the classroom for learning in Africa: Complementary case study of secondary school teachers in South Africa and Tanzania	Odirile Moja and Katherine Malan. Issues and Proposals for Automated Retirement Portfolio Risk Matching in South Africa
	Chris Lanka Sejaphala and Mthulisi Velepini. Investigating high traffic rate	Mpho Leeu, Vreda Pieterse and Marko Van Eekelen. How personality diversity	

	distributed denial of service attacks detection mechanisms in Software-Defined Networks	influences team performance in student software engineering teams	
12h30 to 13h30	Lunch		
13h30 to 14h00	Keynote: Dr Brett van Niekerk. ISACA. The state of information and cyber security: industry and education implications. Room: Fontainebleau		
14h00 to 14h20	Tea break and networking		
14h20 to 15h35 (20 + 5 mins per presentation)	Room: Fontainebleau	Room: Cascades	Room: Concord
	Chair:	Chair:	Chair:
	Brett van Niekerk. Information Warfare as a Continuation of Politics: An Analysis of Cyber Incidents	Craig Mills and Bertram Haskins. Using Mobile Technology in an Adventure Sport	Muhammad Abrar and Waleed Elahi Khan. Digital Filtering Techniques for Power-line Interference Removal from ECG Signals
	Richard Ssembatya and Ambrose Atuheire. An Access Control Framework for Protecting Personal Electronic Health Records: The Case Study of Developing Countries	Krutika Ghadge and Bhagavat Jadhav. Socket Based IoT Node Home Automation System with Smart Plug	Siddig Gomha and Kibet Langat. On-chip 60 GHz Transformers for Next Generation of Wireless Communication in a 0.13 μ BiCMOS Technology
	Victor Adeniji and Khulumani Sibanda. Analysis of the effect of Malicious Packet drop attack on Packet transmission in Wireless Mesh Networks		Mulugeta Atlabachew, Jordi Casademont and Yalemzewd Negash. Design and Performance Analysis of Directional Random Access MAC protocol for Cognitive Radio Network
Day 2: 9th March 2018			
08h30 to 09h00	Arrival tea		
09h00 to 09h45	Keynote: Prof T.V. Prabhakar (Indian Institute of Technology). Title TBA. Room: Fontainebleau		
09h50 to 11h30 (20 + 5 mins per presentation)	Room: Fontainebleau	Room: Cascades	Room: Concord
	Chair:	Chair:	Chair:
	Anura Hiran, Serestina Viriri and Mandlenkosi Gwetu. Efficient 3D Liver Segmentation using Enhanced Image Alignment	Kwabena Manu, Sikhumbuzo Ngwenya and Khulumani Sibanda. The role of ICTs in Promoting Water Conservation and Sustainability in the Eastern Cape Province of South Africa: A case study of Alice and Fort Beaufort communities	Shehzad Khalid and Muhammad Taimoor Khan. A Novel Opinion Reason Mining Framework Exploiting Linguistic Associations

	Adam Eshag Adam Hassan Adam Hassan and Serestina Viriri. Invariant Feature Extraction for Facial Recognition: A Survey of the State-of-the-art	Sewisha Ezekiel Lehong, Judy van Biljon and Estelle de Kock. Knowledge sharing platforms in ICT4D: towards best practices for evaluation	Kudakwashe Zvarevashe, Prudence Kadebu and Innocent Mapanga. SPBM:A Framework For Sentiment Analysis And Opinion Mining On Hotel Reviews
	Areeg M. Osman and Serestina Viriri. Face Verification across Age Progression: A Survey of the State-of-the-art	Musa Chemisto and Ulrike Rivett. Examining the Adoption and Usage of a Citizen Complaints Management System in Rural South Africa	Arinze Anikwue and Boniface Kabaso. A review of Lambda Architecture based big data solutions
	Andile Mlaba, Mandlenkosi Gwetu and Serestina Viriri. Online Signature Verification using Hybrid Transform Features	Theyazn Hassn Aldhyani and Manish R Joshi. INTS Model to Predict Influenza Epidemics Using Google Search Data	Bin Bin Ma, Simon Fong, Yan Zhuang and Richard Millham. Data Stream Mining in Fog Computing Environment with Feature Selection Using Ensemble of Swarm Search Algorithms
11h30 to 11h50	Tea break and networking		
11h50 to 12h30	Keynote: Prof Simon James Fong (University of Macau). Title TBA. Room: Fontainebleau		
12h30 to 13h30	Lunch		
13h30 to 15h10 (20 + 5 mins per presentation)	Room: Fontainebleau	Room: Cascades	Room: Concord
	Chair:	Chair:	Chair:
	Kennedy Chengeta and Serestina Viriri. A Survey on Facial Recognition based on Local Directional and Local Binary Patterns	Nwakego Joy Okoli, Jay Barnes and Andre De La Harpe. Telecommuting for Environmental Sustainability in South Africa	Naomi Chimpeni and Jean-Paul Van Belle. The Role of Country Characteristics in ICT Value Realization in Financial Institutions: the Case of Southern Africa Least Developing Countries
	Nahla Nour, Salma Mohammed and Serestina Viriri. Gender Identification from Facial Images using Global Features	Adele Da Veiga. An online information privacy culture - A framework and validated instrument to measure consumer expectations and confidence	Cuthbert Chidoori and Jean-Paul Van Belle. Attitude towards Open Source Software by Small and Medium Enterprises in South Africa
	Mayibongwe Bayana and Serestina Viriri. Gender Classification based on Fusion of Facial Components Features	Joshua Magunduni and Wallace Chigona. Revisiting the Shadow IT Research: what we already know, what we still need to know and how do we get there?	Riaan Roos and Jan C. Mentz. Factors that influence Enterprise Architecture decision making
		Carington Phahlamohlaka and Marijke Coetzee. CaseRank: Ranking Case Law	Kudzai Mapingire, Phil van Deventer and Alta van der Merwe. Positioning

		Using Precedent and Principal Component Analysis	the role of the enterprise architect: An independent study in a mobile telecommunications organisation
15h10 to 15h30	Best paper award and conference closing		