

IEEE International Conference on Information Communications Technology and Society (IEEE ICTAS 2019)

Blue Waters Hotel, Marine Parade, Durban

Conference Programme for 6th to 7th March 2019

Please note changes may still be made and ICTAS does not take responsibility for disruption of travel arrangements

Day 1: Wednesday, 6th March 2019

08h30 to 08h55	Arrival tea		
09h00 to 09h10	Conference opening		
09h10 to 10h10	Keynote: Professor Zoran Bojkovic, LSM IEEE, University of Belgrade and Engineering Academy of Serbia. Room: Fontainebleau		
10h10 to 10h25	Tea break and networking		
10h30 to 12h30 (25 + 5 mins per presentation)	Room: Fontainebleau	Room: Cascades	Room: Concord
	Theme: Computer networks	Machine learning + computer engineering	Mobile computing + ICT for society
	An SDN Solution for Performance Improvement in Dedicated Wide-Area Networks. Themba Shozi, Sabelo Dlamini, Pragasen Mudali and Matthew Adigun.	Using Machine Learning to Prioritize Automated Testing in an Agile Environment. Laurie Butgereit.	Rationalising Effects of Mobile Applications: A Systematic Review of Literature. Musa Chemisto and Gordon Amoako.
	An Efficient Resource Allocation and Management Algorithm for Heterogeneous Wireless Networks. Topside Mathonsi, Tshimangadzo Tshilongamulenzhe and Bongisizwe Buthelezi.	Identifying Students At-Risk with an Ensemble of Machine Learning Algorithms. Ranjin Soobramoney and Alveen Singh.	Video Relay Service for Deaf people using WebRTC. Andre Henney and William Tucker.
	Building a National Network through peered community area networks: realising ICTs within developing countries. Max Mitchell and Ingrid Sieborger.	Implementation of current capacitance resonant circuit to monitor telecommunication and utility cable tampering. Patrick Mabadie and Marcel Ohanga Odhiambo.	A Smart City Stakeholder Classification Model. Anthea Van der Hoogen, Brenda Scholtz and Andre Calitz.
	Improved Resource Allocation and Network Connectivity in CRSN Based Smart Grid for Efficient Grid Automation. Emmanuel Ogbodo, David Dorrell and Adnan Abu-Mahfouz.	Reducing Zapping Delay in Internet Protocol Television Using a Hybrid Modular Method. Timothy Adeliyi and Oludayo Olugbara.	The Four Major Impacting Factors on the Future. Michal Beno.
12h30 to 13h25	Lunch		
13h30 to 14h30	Keynote: Dr Bill Dafnis, Associate Dean of Technology, School of Business and Technology, Capella University, USA. Room: Fontainebleau		
14h30 to 14h45	Tea break and networking		

14h50 to 16h50 (25 + 5 mins per presentation)	Room: Fontainebleau	Room: Cascades	Room: Concord
	Software engineering	Cloud computing + social media	Finance and accounting
	Developing a framework towards improving business analysis of integrated public e-service systems. Shivani Naicker and Alveen Singh.	Adoption of an Integrated Cloud-Based Electronic Medical Record System at Public Healthcare Facilities in Free-State, South Africa. Nomabhongo Masana and Gerald Muriithi.	Examining Factors that Impede Internal Auditors from Leveraging Information Technology for Continuous Auditing. Motekoa Mokhitli and Michael Kyobe.
	Generating Narrations of Nested SQL Queries Using Context-free Grammars. George Obaido, Abejide Ade-Ibijola and Hima Vadapalli.	Guidelines for secure cloud-based personal health records. Avuya Mxoli, Nicky Mostert and Mariana Gerber.	Retail banking service quality measurement: SERVQUAL gap analysis. Mathias Mujinga.
	Agile UX: Integrating good UX development practices in Agile. Narendren Pillay and Jeanette Wing.	Visualization Criteria: supporting knowledge transfer in Incident Management Systems. Quintus van Wyk, Judy van Biljon and Marthie Schoeman.	
		Using Twitter as knowledge sharing platform: A proposal of a Twitter knowledge sharing model. Wiaan Heyns and Sheryl Buckley.	
Day 2: Thursday, 7th March 2019			
08h30 to 08h55	Arrival tea		
09h00 to 10h00	Keynote: Francois Mouton, Head of Incident Response Team, Cyanre, Centurion RSA. Room: Fontainebleau		
10h00 to 10h15	Tea break and networking		
10h20 to 12h20 (25 + 5 mins per presentation)	Room: Fontainebleau	Room: Cascades	Room: Concord
	Theme: cyber-security	Image processing	IoT
	Deliver Security Awareness Training, then Repeat: {Deliver; Measure Efficacy}. Tapiwa Gundu, Stephen Flowerday and Karen Renaud.	Facial Expression Recognition: A Review of Methods, Performances and Limitations. Olufisayo Ekundayo and Serestina Viriri.	Multi-hop PSO based routing protocol for Wireless Sensor Networks with Energy Harvesting. Tiholiso William Tukisi, Tebello Ntsiki Don Mathaba and Marcel Ohanga Odhiambo.
	A conceptual model of information security compliant behaviour based on the self-determination theory. Yotamu Gangire, Adele Da Veiga and Marlien Herselman.	Foresight: Real Time Facial Recognition Using WebAssembly and Localized Deep Neural Networks. Prashaan Pillay and Serestina Viriri.	Performance optimization of wireless sensor networks. Tshimangadzo M Tshilongamulenzhe, Topside E Mathonsi, Maredi I Mphahlele and Phatle S Maswikaneng.
	Towards cyber security awareness for small, medium and micro Enterprises (SMMEs) in South Africa. Tebogo Lejaka, Adele Da Veiga and Marianne Look.	Local Descriptors Parameter Characterization with Fisher Vectors for Remote Sensing Images. Ronald Tombe and Serestina Viriri.	A smart home appliance control system for physically disabled people using digital assistants and IoT smart devices. Progress Mtshali and Freedom Khubisa.
			A conceptual privacy governance framework. Paulus Swartz, Adele Da Veiga and Nico Martins.
		Efficient Region of Interest Detection for Liver Segmentation using Deep Learning. Anura Hiranman, Serestina Viriri and Mandlenkosi Gwetu.	
12h30 to 13h25	Lunch		

13h30 to 15h30 (25 + 5 mins per presentation)	Room: Fontainebleau	Room: Cascades	Room: Concord
	<i>e-Learning</i>	<i>Image processing</i>	<i>IoT</i>
	The Four I-s of E-skills. Subashnie Soobramoney and Delene Heukelman.	Facial Expression Recognition: A Survey of the State-of-the-art. Nahla Nour, Salma Mohamed and Serestina Viriri.	Analysis of the Narrow Band Internet of Things (NB-IoT) Technology. Kishor Krishnan Nair, Adnan Abumahfouz and Samuel Lefophane.
	Comparison of students using electronic learning website of the University of South Africa. Motlhabane Jacobus Maboe, Mariki Eloff and Marthie Schoeman.	Skin Cancer Detection from Macroscopic Images. Verosha Pillay and Serestina Viriri.	A Smart Home Energy Management System using Smart Plugs. Progress Mtshali and Freedom Khubisa.
	The potential use of Tablet Computers to support Teaching and Learning activities in South African Schools. Kristen Theunissen and Ingrid Sieborger.	Image Quality Assessment for Iris Biometrics for Minors. Norman Nelufule, Antonie de Kock and Gugulethu Mabuza-Hocquet.	Reliable Internet of Things Network Architecture Based on High Altitude Platforms. Oludayo Olugbara, Sihle Sibiya and Timothy Adeliyi.
Open-distance electronic learning environments: Supervisors' views on usability. Sewisha Ezekiel Thabo Lehong, Judith Arnoldine Van Biljon and Ian Douglas Sanders.	A Review of Local, Holistic and Deep Learning Approaches for Facial Expressions Recognition. Kennedy Chengeta and Serestina Viriri.		
15h30	Best paper award and conference closure		
Day 3: 8 March 2019			
Day 3 is dedicated to networking and optional local tours of interest			