



SAICSIT Conference 2022
Protea Marriott Waterfront, Cape Town
18-20 July 2022

PROGRAMME

Monday 18 July 2022

09:00 – 17:15	AISSAC Workshop (See separate programme)
14:00 – 17:00	Paper Writing Tutorial Chair: Philip Machanick, <i>Rhodes University</i> (See separate programme)
14:00 – 18:00	SAICSIT Registration
18:00 – 20:00	Welcome Function

Tuesday 19 July 2022

08:00	SAICSIT Registration
09:00	Welcome – Aurna Gerber, SAICSIT President
09:20	Keynote Session 1 Chair: Judith Bishop The neglected art of problem formulation and modelling Louise Leenen, <i>University of the Western Cape</i>
10:20	Refreshments
11:00	Information Systems Session 1 Chair: Mathias Mujinga <ul style="list-style-type: none">• Towards a socio-specific artificial intelligence adoption framework, <i>Danie Smit and Sunet Eybers</i>• Understanding the Low Adoption of AI in South African Medium Sized Organisations, <i>Franz Schoeman and Lisa Seymour</i>• Big data analytics capabilities and value creation at the work-practice level, <i>Friedah Moseneke and Irwin Brown</i>
11:00	Computer Science Session 1 Chair: Hein Venter <ul style="list-style-type: none">• Robust Anomaly Detection in CCTV Surveillance, <i>Thomas Scholtz and Mkhusele Ngxande</i>• Combining Evolutionary Search with Behaviour Cloning for Procedurally Generated Content, <i>Nicholas Muir and Steven James</i>• Sentiment and intent classification of in-text citations using BERT, <i>Ruan Visser and Marcel Dunaiski</i>
12:00	Lunch and Networking

13:30s	Panel 1 Postgraduate Supervision in the Connected Future Chair: Alta van der Merwe, <i>University of Pretoria</i> Panellists: <ul style="list-style-type: none"> • Irwin Brown, <i>University of Cape Town</i> • Marijke Coetzee, <i>North-West University</i> • Irene Govender, <i>University of Kwa-Zulu Natal</i> • Jan Kroeze, <i>University of South Africa</i> 	
15:00	Refreshments	
15:20	Information Systems Session 2 <ul style="list-style-type: none"> • Barriers to dynamic cybersecurity capabilities in healthcare software services, <i>Lawrence Nyakasoka and Rennie Naidoo</i> • Influence of Health Social Networks on Healthcare: A Systematic Literature Review, <i>Nthabiseng Makena and Funmi Adebisin</i> 	Chair: Marie Hattingh
15:20	Computer Science Session 2 <ul style="list-style-type: none"> • Automating bird detection based on webcam captured images using deep learning, <i>Alex Mirugwe, Juwa Nyirenda and Emmanuel Dufourq</i> • Low resource, post-processed lecture recording from 4K video streams, <i>Charles Fitzhenry, Tanweer Khatieb, Patrick Marais and Stephen Marquard</i> 	Chair: tbc
16:00	Keynote 2 Theorising Context in Information Systems Research: A Critical Reflection on Information Systems Research in an African Context <i>Irwin Brown, University of Cape Town</i>	Chair: Lisa Seymour
17:00	End of sessions for Day One	
18:00	21:00 Gala Dinner Presentation of the Pioneer Award Presentation of Best Paper Awards and Outstanding Reviewer Awards	

Wednesday 20 July 2022

09:00	Information Systems Session 3 <ul style="list-style-type: none"> • Online Platform Privacy Policies: South African WhatsApp Users' Perceptions and Reactions to the January 2021 Changes, <i>Kimberley Mugadza and Gwamaka Mwalemba</i> • The impact of organisational culture on knowledge management: the case of an international multilateral organization, <i>Stenford Mambo and Hanlie Smuts</i> • Do people in low resource environments only need search?, <i>Bernard I. Akhigbe, Khanyisa Mtombeni, Melissa Densmore and Hussein Suleman</i> 	Chair: Tendani Mawela
09:00	Computer Science Session 3 <ul style="list-style-type: none"> • Dilated Convolution to Capture Scale Invariant Context in Crowd Density, <i>Thishen Packirisamy and Richard Klein</i> • Analyzing Model-Free Reinforcement Learning Algorithms for Nitrogen Fertilizer Management in Simulated Crop Growth, <i>Michael Vogt and Benjamin Rosman</i> • Robust Facial Recognition for Occlusions using Facial Landmarks, <i>Kyle Johnston and Mkhuseleli Ngxande</i> 	Chair: Patrick Marais
10:00	Refreshments	

10:40	SAICSIT Annual General Meeting	
12:00	Lunch and Networking	
13:30	Panel 2 Artificial Intelligence Drives Research and Teaching Chair: AURONA GERBER, University of Pretoria	
	Panellists:	
	<ul style="list-style-type: none"> • Deshen Moodley, <i>University of Cape Town</i> • Kanschukan Rajaratnam, <i>Stellenbosch University</i> • Hima Vadapalli, <i>University of the Witwatersrand</i> 	
14:40	Information Systems Session 4	Chair: Sunet Eybers
	<ul style="list-style-type: none"> • Comparing the Usability and Quality of Experience of Mobile Video-Conferencing Apps Among Bandwidth-Constrained Users in South Africa, <i>Dominique Oosthuizen, Taveesh Sharma, Josiah Chavula and Melissa Densmore</i> 	
14:40	Computer Science Session 4	Chair: Philip Machanick
	<ul style="list-style-type: none"> • Towards an African cybersecurity community of practice, <i>Rutendo Chibanda and Salah Kabanda</i> • Memory Requirements for the Detection of Impostor Nodes in Wireless Sensor Networks, <i>Stefan Gruner, Dylan Krajnc, Johan Pieter van Rooyen</i> 	
15:20	Refreshments	
15:40	Keynote 3: Advances in AI for Cybersecurity Bruce Watson, <i>Stellenbosch University</i>	Chair: AURONA GERBER
16:40	Closing SAICSIT 2022 Team	
17:00	End of sessions for Day Two	

Programme as of 9 July – subject to minor changes

SAICSIT 2022 is very grateful to those who served on the Programme Committees.

Computer Science

Oluwasola Mary Adedayo, The University of Winnipeg
Ritesh Ajoodha, University of the Witwatersrand
Josiah Chavula, University of Cape Town
Bester Chimbo, University of South Africa
Tiny Du Toit, North-West University
Marcus Gallagher, The University of Queensland
Stefan Gruner, University of Pretoria
Juan Gutierrez Cardenas, Universidad de Lima
Scott Hazelhurst, University of the Witwatersrand
Steven James, University of the Witwatersrand
Richard Klein, University of the Witwatersrand
Eduan Kotzé, University of the Free State
Patrick Marais, University of Cape Town
Linda Marshall, University of Pretoria
Thomas Meyer, University of Cape Town and CAIR
Deshendran Moodley, University of Cape Town
Olaperi Okuboyejo, University of the Witwatersrand
Martin Olivier, University of Pretoria
Vreda Pieterse, Independent
Colin Pilkington, University of South Africa
Ian Sanders, University of the Witwatersrand
Hussein Suleman, University of Cape Town
Hima Vadapalli, University of the Witwatersrand
Clint Van Alten, University of the Witwatersrand
Bruce Watson, Stellenbosch University

Information Systems

Funmi Adebessin, University of Pretoria
Lizette de Wet, University of the Free State
Denis Dennehy, Swansea University, Bay Campus
Yogesh K. Dwivedi, Swansea University, Bay Campus
Sunet Eybers, University of South Africa
Knut Hinkelmann, FHNW University of Applied
Sciences and Arts Northwestern Switzerland
Jan H Kroeze, University of South Africa
Daan le Roux, Stellenbosch University
Machdel Matthee, University of Pretoria
Nita Mennega, University of Pretoria
Patrick Mikalef, Norwegian University of Science and
Technology
Rennie Naidoo, University of Pretoria
Zenzo Polite Ncube, University of Mpumalanga
Patrick Ndayizigamiye, University of Johannesburg
Oo Olaitan, Walter Sisulu University
Ilias O. Pappas, Norwegian University of Science and
Technology
Doug Parry, Stellenbosch University
Roxanne Piderit, University of Fort Hare
Komla Pillay, University of Pretoria
Catherine S. Price, University of Kwazulu-Natal
Tania Prinsloo, University of Pretoria
Lisa Seymour, University of Cape Town
Hanlie Smuts, University of Pretoria
Estelle Taylor, North-West University
Marita Turpin, University of Pretoria
Hossana Twinomurinzi, University of Johannesburg
JP van Deventer, University of Pretoria
Corne van Staden, University of South Africa
Lizette Weilbach, University of Pretoria