



SAICSIT'24

**Letter of Compliance: Proceedings of the South African
Institute of Computer Scientists and Information
Technologists 2024 Conference**

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Human-Machine-Digital-Convergence

The South African Institute of Computer Scientists and Information Technologists (SAICSIT¹) 2024 conference was hosted by the Computer Sciences Department and the School of Information Technology at Nelson Mandela University. The conference took place in Gqeberha from Monday the 15th to Wednesday the 17th of July 2024.

SAICSIT has been holding this annual conference since 1985. The Institute focuses on research and development in computing and information technology (IT) in Southern Africa. SAICSIT 2024 is the 45th annual conference and will accommodate two tracks, Computer Science and Information Systems, with various topics considered for each track. The conference theme, Human-Machine-Digital-Convergence, aims to stimulate robust engagement that will generate new insights into the transforming relationship between 'humans and machines'.

¹ <https://saicsit.org/>

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This volume contains the accepted and revised research papers accepted for the online proceedings of SAICSIT 2024, the *45th Conference of the South African Institute of Computer Scientists and Information Technologists*. SAICSIT 2024 was held from 15 to 17 July 2024 in the Boardwalk Hotel, Gqeberha, South Africa. The theme of the conference, *Human-Machine-Digital-Convergence* is aimed at stimulating robust engagement that will generate new insights into the transforming relationship between humans and machines.

The role of the 45th SAICSIT conference is to support and connect the Southern African computing community so that innovation and creativity can flourish. The SAICSIT conference aims to provide a space to meet and exchange ideas on addressing the challenges of the fast-evolving digital future, and we are therefore glad to report that submissions were received from authors with more than 60 unique national and international affiliations.

The review process was double-blind and rigorous, with every paper sent to at least three and receiving at least two substantive reviews from our program committee. The program committee comprised more than 125 members with over 50 national and international affiliations. The technical committee, comprising of the technical chairs and track chairs, managed the review process and supported the authors in revising their papers to the quality results that are published in this proceedings.

This SAICSIT 2024 online proceedings book contains 20 full research papers organised in their respective Computer Science and Information Systems research tracks. These submissions were included for presentation in the SAICSIT 2024 programme. With more than 90 papers submitted (from national and international authors) and more than 80 submissions in total sent out for review, the acceptance rate for full research papers for this online volume is 25%. In the Information Systems track, 38 submissions were sent out for review, and 10 were accepted for this volume, amounting to an acceptance rate of 26%. In the Computer Science track, 48 submissions were sent out for review, and 10 were accepted for this volume, amounting to an acceptance rate of 20.8%.

Authors of accepted papers were affiliated with various national and international universities. The table below indicates the percentage of authors from the respective institutions for the proceedings volumes, and we confirm that 20% of all submissions is the maximum accepted submissions from a single institution.

Institution	Author Percentage
University of Cape Town	20%
Nelson Mandela University	11%
Stellenbosch University	10%
Council for Scientific and Industrial Research (CSIR)	8%
University of Pretoria	7%
University Of The Witwatersrand	3%
Tshwane University of Technology	3%
North-West University	3%
Walter Sisulu University	3%

University of South Africa	3%
Thirteen Remaining (including International) Institutions	29%

We want to express our gratitude to the track chairs and program committee reviewers for their hard work and dedication. Thank you to the authors of all the submitted papers for sharing their research results. We hope the opportunity to participate in SAICSIT 2024 will have a lasting impact on the quality and productivity of future research in our scholarly community.

We also acknowledge the enthusiasm and outstanding contributions of the local organisers of SAICSIT 2024, the Computer Sciences Department and the School of Information Technology at Nelson Mandela University. Thank you to everyone who contributed to the success of SAICSIT 2024.

June 2024

Aurona Gerber

Technical Chair: SAICSIT 2024