Venue

Tuscan Rose, 6 Maluti Avenue, Bloemfontein

Sponsors

Conference Programme

Day 1: Wednesday, 30 July 2025	
Time	**Description**
12h00 – 17h00	Registration (Tuscan Rose – Corporate Hall)
14h00 – 17h00	HoD Colloquium (Corporate Hall)
17h00 – 18h00	SACLA Executive Committee Meeting (Boardroom)
(18h00 for 18h30) 18h30 – 21h00	**COCKTAIL FUNCTION** **Tuscan Rose – Banquet Hall**

Day 2: Thursday, 31 July 2025 (Sessions 1 & 2)	
Time	**Session(s)**
07h30 - 08h15	Registration & Coffee
08h15 - 08h30	Opening & Welcome (Plenary session – Corporate Hall)
08h30 - 09h15	Sponsor Talk: BBD (Plenary session – Corporate Hall)

09h20 - 10h50	**Venue A – Corporate Hall**	**Venue B - Gallery**
	Session 1A: GenAI in Programming (Chair: Prof Liezel Nel)	**Session 1B: Equity, Accessibility & Literacy** (Chair: Ms Tlholohelo Nkalai)
	10: Leveraging Abstract Syntax Trees To Generate Instructive Hints In Programming (Marc Levin, Herman Kandjimi, and Aslam Safla) *20: Evaluating AI-Generated C# Code in Computing Education: Implications for Academic Integrity* (Adewuyi Adetayo Adegbite and Eduan Kotzé) *27: Investigating the Internalization of Programming Code Obtained from Generative Artificial Intelligence* (Johan Prinsloo, Imelda Smit and Roelien Goede)	*2: Learning and teaching computer programming: A systematic literature review of challenges faced by Deaf students in South Africa and beyond* (Alfred Hove Mazorodze) *16: Using assistive technology to improve independence in visually impaired students in higher education institutions: A systematic literature review* (Katlego Mfekane and Samwel Mwapwele) *21: Gender, Self-Efficacy, and Computer Literacy Acquisition in Marginalised South African Communities* (Wynand Nel and Rouxan Fouché)

10h50 - 11h20	Coffee Break	
11h20 - 12h05	Sponsor Talk: Oracle (Plenary session – Corporate Hall)	

12h10 - 13h10	**Venue A – Corporate Hall**	**Venue B - Gallery**
	Session 2A: Inclusive Educational Practices (Chair: Prof Tanya Stott)	**Session 2B: Gender, Curriculum & Pedagogical Strategies** (Chair: Dr Ben Mase)
	11: Beyond Language Barriers: Programme-Specific Effects of English Medium Instruction in South African Computer Science Education (Rouxan Fouché) *19: Quintuple Helix, the Informal Economy and Sustainable-Smart Innovations: Lessons to be learned from a transdisciplinary student project* (Carolien van den Berg and Belinda Verster)	*15: A Bibliometric Analysis of Existing Literature on the Nexus between Gender and Introductory Computer Programming* (Sithandiwe Twetwa-Dube and Courage Matobobo) *25: Comparing South African Computer Science Curricula Structures using Graph-Theoretic Approaches* (Reolyn Heymann, Michael de Jager, and Japie Greeff)

13h10 - 14h00	Lunch Break	

Day 2: Thursday, 31 July 2025 (Sessions 3 & 4)		
14h00 - 15h30	**Venue A – Corporate Hall**	**Venue B - Gallery**
	Session 3A: Innovative Pedagogy & AI Integration (Chair: Dr Bennie Botha)	**Session 3B: Policy & Practical Implications of AI** (Chair: Mr Jay Vieira)
	1: A Phenomenographic Evaluation Approach for Inclusive UX Design Thinking Education (Rennie Naidoo) *4: Contextualization, assessment, and generative AI in an online environment: An experiment with a hypothetical case study in Enterprise Architecture* (Wesley Moonsamy and Hugo Lotriet) *14: A Framework for Integrated Project & Context-Based ICT Education* (Jacqui Muller and Japie Greeff)	*22: Students' Generative AI Use in Different Levels of Education: A Systematic Review* (Suzanne Sackstein and Mukelwe Mdluli) *18: The Networks between Students, Academics and Generative AI at a South African University: An Actor Network Theory Perspective* (Mikayla Suraya Seedat and Walter Ferreira Uys) *33: Adapting the Substitution Augmentation Modification Redefinition (SAMR) Model for Effective Classroom Integration of Generative Artificial Intelligence in a Distributed System Course* (Ijeoma Noella Ezeji, Sizakele Mathaba, Nombuso Sibeko and Matthew Adigun)
15h30 - 16h00	Coffee Break	
16h00 - 17h00	**Venue A – Corporate Hall**	**Venue B - Gallery**
	Session 4A: Educational Innovations & Industry Alignment (Chair: Ms Reba Phuthi)	**Session 4B: Work-in-progress papers** (Chair: Prof Liezel Nel)
	13: A Model for Industry Advisory Boards' Effectiveness at Higher Education Institutions (Estelle Taylor, Andre Calitz and Margaret Cullen) *23: Innovation in Information and Communication Technology Education: Navigating the Next Frontier by Using an Automated Grading System* (Dalize van Heerden and Leila Goosen)	*28: Barriers to 4IR/AI Adoption in Zimbabwean Higher and Tertiary Education Institutions* (Fungai Nora Mukora, Nobert Rangarirai Jere, Tawanda Mushiri and Hilton Maverengo) *35: The use of Generative AI in Sign Language Interpretation to improve classroom engagement for Deaf students in IT education - A Literature Review* (Tichaona Chinyerere)
(18h00 for 18h30) 18h30 – Late	**Gala Dinner (Tuscan Rose - Banquet Hall)**	

Day 3: Friday, 1 August 2025 (Sessions 5 & 6, Corporate Hall)	
Time	**Session**
07h30 - 08h15	Arrival & Coffee
08h15 - 08h35	Sponsor Talk: IBM
08h40 - 10h10	**Session 5: Enhancing Programming through Debugging & AI** (Chair: Prof Tanya Stott)
	34: Overcoming Debugging Challenges: Expert Strategies for Novice Programmers *(Tipson Maleti and Liezel Nel)* *24: Utilising Large Language Models for Automated Evaluation of Introductory HTML and CSS Assignments* *(Jocelyne Smith, Eduan Kotzé and Liezel Nel)* *8: Common Code Explaining Errors Made by Novice Programmers: Implications for the Teaching of Introductory Programming* *(Mokotsolane Ben Mase and Liezel Nel)*
10h10 - 10h40	Coffee Break
10h40 - 12h00	**Session 6: Curriculum Development & Reflective Practices** (Chair: Dr Rouxan Fouché)
	17: Development of the GE-ARCS-E Model to Evaluate the Impact of Gamification on Programming Students' Motivation and Engagement *(Marisa Venter and Lizette de Wet)* *9: Beyond Knowledge Transfer: A Framework for Creating Cybersecurity Qualifications that Meet Industry Expectations* *(Tapiwa Gundu)* *37: Delegates' Perceptions of the SACLA 2024 Conference* *(André Calitz, Margaret Cullen and Liezel Nel)*
12h00 - 13h00	SACLA 2025 AGM
13h00 - 13h10	Closing Remarks & Thanks
13h10 - 14h10	Lunch & Departure