



# Programme

**The 47th Annual Conference of the Southern African  
Computer Lecturers' Association (SACLA 2018)**

**18 – 20 June 2018**

**Krystal Beach Hotel**

**Harbour Island, Gordon's Bay**

## Hosts



## Sponsors



## Monday 18 June 2018

1200-1300	Arrival and Registration [Aqua Foyer]	
1300-1400	Lunch [Krystal Beach Restaurant]	
1400-1415	Welcome and Opening: Lisa Seymour [Aqua]	
1415-1545	Paper Session 1 [Aqua]	Paper Session 2 [Marine]
	Theme: Playfulness Chair: Linda Marshall  <i>Marisa Venter and Arthur James Swart.</i> Influence of Gamification Elements on an Online Programming Learning Environment <i>Imelda Smit.</i> Are the Teaching-Research Links Linking with Young Researchers? <i>Romeo Botes and Imelda Smit.</i> Robotics – from zero to hero in six weeks	Theme: Academia Chair: Jan Kroeze  <i>Dhriven Hamall and Jean-Paul Van Belle.</i> Research Barriers Experienced by South African Academics in Information Systems and Computer Science <i>Wynand van Staden and Colin Pilkington.</i> Overcoming the Corporate University and its Effect on Computing Education <i>Zhane Solomon, Nurudeen Ajayi, Rushil Raghavjee and Patrick Ndayizigamiye.</i> Lecturers' perceptions of Virtual Reality (VR) as a teaching and learning platform
1545-1600	Tea/Coffee [Aqua Foyer]	
1600-1700	Keynote: Cybersecurity: Going Digital <i>Richard Baskerville, Curtin / Georgia State;</i> Chair: Salah Kabanda [Aqua]	
1700-1715	Cengage Demo; Chair: Aslam Safla [Aqua]	HoD Meeting [Marine]
1700-1900		HoD Meeting [Marine]
1900-	Welcome Reception [Captain's Table]	

## Tuesday 19 June 2018

0830-0900	Sponsor: SAP; Chair: Lisa Seymour [Aqua]		
0900-1000	Keynote: Offering high quality individualised learning using adaptive intelligence <i>Mark Horner, Siyavula;</i> Chair: Hussein Suleman [Aqua]		
1000-1130	Paper Session 3 [Aqua]	Paper Session 4 [Marine]	Paper Session 5 [Neptune]
	Theme: Media and classrooms Chair: Reinhardt Botha  <i>Douglas Parry and Daniel Le Roux.</i> Off-task Media Use in Lectures: Towards a Theory of Determinants <i>Obrain Murire, Liezel Cilliers and Kim Viljoen.</i> An evaluation of social media use in the classroom at a traditional university <i>Lushan Chokalingam, Machdel Matthee and Marie Hattingh.</i> It seems to have a hold on us: Social media self-regulation of students	Theme: Careers Chair: Alta van der Merwe  <i>Andre Calitz, Jean Greyling and Margaret Cullen.</i> South African Scholar ICT Career Inclinations <i>Jean-Paul Van Belle, Brenda Scholtz, Kennedy Njenga, Nicholas Barfnecht, Alexander Serenko and Prashant Palvia.</i> Top IT Issues for Employers of South African Graduates <i>Hanlie Smuts and Marie Hattingh.</i> Towards a knowledge conversion model enabling programme design in higher education for shaping industry-ready graduates	Theme: Programming A Chair: Estelle Taylor  <i>Carin Venter and Tanja Eksteen.</i> Contextualisation of Abstract Programming Concepts for First Year IT Students: A Reflective Study <i>Stephen Akandwanaho and Irene Govender.</i> A blend of jigsaw and peer-to-peer approach to teaching programming in a systems development course. <i>Fatimah Tijani, Ronel Callaghan and Rian Devilliers.</i> The nature of pre-service teachers' experiences while transitioning from visual to procedural programming

## Tuesday 19 June 2018

1130-1145	Tea/Coffee [Aqua Foyer]		
1145-1315	Paper Session 6 [Aqua]	Paper Session 7 [Marine]	Paper Session 8 [Neptune]
	<p>Theme: Programming B Chair: Stefan Gruner</p> <p><u>Abejide Ade-Ibijola</u>. Syntactic Generation of Practice Novice Programs in Python <u>Bennett Kankuzi</u>. Balancing theory and practice in an introductory operating systems course <u>Guillaume Nel and Liezel Nel</u>. Motivational value of Code.org's Code Studio tutorials in an undergraduate programming course</p>	<p>Theme: Learning/Enhancing Chair: Janet Liebenberg</p> <p><u>George Musumba and Ruth Wario</u>. Towards a Semantic-Aware Adaptive e-Learning Model <u>Zach Nudelman, Deshndran Moodley and Sonia Berman</u>. Using machine learning and Bayesian Networks to Predict Computer Science Success <u>Wai Sze Leung</u>. AgileTL: A Framework for Enhancing Teaching and Learning Practices Using Software Development Principles</p>	<p>Theme: Communities Chair: Jean-Paul Van Belle</p> <p><u>Marisa Venter and Arthur James Swart</u>. An investigation of the benefits of a learning community in a B.Tech Information Technology qualification <u>Leila Goosen and Patricia Gouws</u>. Computer Lecturers' Community Engagement: Inspired towards Science, Engineering and Technology <u>Arthur James Swart and Marisa Venter</u>. Regular Self-Assessments in a Learning Management System Negates the Ebbinghaus 'forgetting curve'</p>
1315-1415	Lunch [Krystal Beach Restaurant]		
1415-1445	Sponsor: Oracle; Chair: Lisa Seymour [Aqua]		
1445-1615	Paper Session 9 [Aqua]	Paper Session 10 [Marine]	Paper Session 11 [Neptune]
	<p>Theme: Teamwork Chair: Carina de Villiers</p> <p><u>Sunet Eybers and Marie Hattingh</u>. The last straw: Teaching project team dynamics to third year students <u>Vreda Pieterse and Marko Van Eekelen</u>. Cultural Diversity and the Performance of Student Software Engineering Teams <u>Estelle Taylor and Henry Foulds</u>. Tackling Teamwork in Higher Education</p>	<p>Theme: Student experience Chair: Wai Sze Leung</p> <p><u>Arthur James Swart</u>. Student perceptions on the use of Technology for Learning to promote student engagement <u>Janet Liebenberg and Trudie Benade</u>. The Impact of Educational Technologies on the Learning Experiences of Students <u>Leila Goosen</u>. Students' Access to an ICT4D MOOC</p>	<p>Theme: Learning Systems Chair: Deshen Moodley</p> <p><u>Methembe Dlamini and Wai Sze Leung</u>. Enhancing Object-Oriented Programming Pedagogy with an Adaptive Intelligent Tutoring System <u>Abejide Ade-Ibijola and Kehinde Aruleba</u>. Interactive Learning of Factual Contents using a Game-like Quiz <u>Nobert Jere, Andrew Gororo and Leena Kloppers</u>. Redesigning of an Open Online Community of Practice for sharing Course Information for Educators</p>
1615-1630	Tea/Coffee [Aqua Foyer]		
1630-1730	AGM [Aqua]		
1900-	Gala Dinner [Krystal Beach Restaurant]		

## Wednesday 20 June 2018

0900-0930	Sponsor: IITPSA <i>Moira De Roche</i> ; Chair: Stephan Jamieson [Aqua]		
0930-1130	Paper Session 12 [Aqua]	Paper Session 13 [Marine]	
	<p>Theme: Research Chair: Nobert Jere</p> <p><i>Azhar Aboobaker and Jean-Paul Van Belle. Motivating Factors and Expectations of Postgraduate Information Systems Students</i> <i>Andre Calitz and Sue Petratos. Alumni Advice on Post-Graduate Studies</i> <i>Walter Ferreira Uys and Wallace Chigona. Introducing Research in the Undergraduate Information Systems Curriculum</i> <i>Stephan Opfer, Marie Ossenkopf and Kurt Geihs. Student Competition Teams: Combining Research and Teaching</i></p>	<p>Theme: Reflection Chair: Irwin Brown</p> <p><i>Stefan Gruner and Christoph Stallmann. The Effects of Study Buddies and Study Hours in a First-Year Course on Operating Systems</i> <i>Alta Van der Merwe and Aurona Gerber. Guidelines for using Bloom's Taxonomy Table as Alignment Tool between Goals and Assessment</i> <i>Malcolm Garbutt and Lisa Seymour. An Exploration of Levels of Learning and Levels of Reflection in a South African Higher Education Experiential Learning Assignment</i> <i>J.T. Janse van Rensburg and Roelien Goede. A reflective practice approach for supporting IT skills required by industry through project-based learning</i></p>	
1130-1145	Tea/Coffee [Aqua Foyer]		
1145-1315	Paper Session 14 [Aqua]	Paper Session 15 [Marine]	
	<p>Theme: Schools and Mobiles Chair: Stephan Opfer</p> <p><i>Nothando Julia Dhlamini, Edmore Chindenga, Mfundo Shakes Scott, Siyabulela Dyakalashé and Nobert Jere. The E-Classroom Forum: Bridging The Public and Private School Socio-Economic Education Factors in Rural Areas</i> <i>Samwel Mwapwele and Dr Sumarie Roodt. High school learner's adoption and use of mobile devices outside the classroom: Case of Cape Town, South Africa.</i> <i>Nobert Jere, Katrina Shikongo and Obert Matarirano. Mobile Usage at Universities for Academic Purposes. Should Lecturers Change Teaching Approaches?</i></p>	<p>Theme: Topic teaching Chair: Matthew Mullarkey</p> <p><i>George Obaido, Abejide Ade-Ibijola and Hima Vadapalli. Generating SQL Queries from Visual Specifications</i> <i>Mampi Lubasi and Lisa Seymour. The Impact of Enterprise Resource Planning Education: A Case study of the University of Zambia</i> <i>Mannis Stenvert and Irwin Brown. Qualifications and Skill Levels of Digital Forensics Practitioners in South Africa – An Exploratory Study</i></p>	
1315-1400	Lunch [Krystal Beach Restaurant]		
1400-1545	<p>IT in Schools Panel [Aqua] Moderator: Linda Marshall <i>Panelists: Ighsaan Francis, Delia Kench, Aslam Safla, Pitso Tsibolane, Jakkaphan Tangkuampien</i></p> <p>The IT dividing line between schools and universities: who should teach what</p>	<p>SACAB Workshop [Marine] Moderators: Andre Calitz and Sue Petratos</p> <p>National IT Diploma Programmes accreditation (Specifically for Comprehensive Universities and Universities of Technology). A workshop to discuss the requirements for accreditation of Diploma, Advanced Diploma and other IT qualifications</p>	<p>CCIS Workshop [Neptune] Moderator: Stefan Gruner</p> <p>Workshop to assist delegates to format papers for CCIS.</p>
1545-1600	Tea/Coffee [Aqua Foyer]		
1600-1700	IT in Schools cont'd	SACAB Workshop cont'd.	CCIS Workshop cont'd