



**INTERNATIONAL CONFERENCE ON RECENT ADVANCES
IN INFORMATION SYSTEMS 2026**

Connecting Research, Industry, and Policy for Sustainable Digital Futures

CONFERENCE PROGRAMME

30 September – 02 October 2026

30 Sep – 01 Oct 2026

Wednesday – Thursday

Crystals Beach Resort

Belle Mare, Mauritius · On-site (Venue)

02 Oct 2026

Friday

Online

Virtual sessions via Zoom

International Conference on Recent Advances in Information Systems (ICRAIS) 2026

Link for Online Sessions for Day 1 and Day 2

<https://us06web.zoom.us/j/87951843342?pwd=JeOqurSd12136pYTRC1LGPWXqwca9P.1>

	DAY 1 - Wednesday 30 September 2026
08:30 - 09:30	Registration
09:30-09:45	Opening Ceremony Welcome Address by Assoc Prof (Dr) Sameerchand Pudaruth, MC Address by Assoc Prof (Dr) M. Heenaye- Mamode Khan, Dean FoICDT, UoM Address by Prof. Dr.-Ing. habil. Jorge Marx Gómez, University of Oldenburg, Germany (Venue: CRYSTAL BALLROOM)
09:45 - 10:00	PHOTO SESSION (Venue: Crystal Ballroom)
10:00 – 10:30	TEA BREAK (Venue: Crystal Ballroom)
	DAY 1 – SESSION 1
10:30-11:30	Keynote Address-1 by Prof. Kavi Kumar Khedo: " How AI Is Accelerating Scientific Discovery?" followed by Q&A (Venue: Crystal Ballroom)
	DAY 1 – SESSION 2
	Session 2 (presenting authors are underlined) Session Chair: Oomesh Gukhool Venue: Crystal Ballroom
11:30-12:30	P 21 - <u>Nadja Kruse</u>, Gunther Schiefer, Meike Ullrich, Steffen Kroschwald, Thomas Schuster- Tamper-Proof Digital Evidence in Consumer Protection: A Hybrid DLT and Crowd-Verification Architecture
	P 82 - <u>Noluxolo Gcaza</u>, Timothy Musharu, Jorge Marx Gómez, Darelle van Greunen- Generative Deliberation for Responsible GenAI: A Pre-Adoption Method for Education and Healthcare
	P 66 - <u>Anass Bayaga</u> - Security, Privacy Risk and Institutional Logics in Citi-zens' Adoption of E-Government Services for Public Ser-vice Delivery
	P59 - <u>Elsie Kaaya</u>, Jorge Marx Gómez and Antje Wulff - Topology Matters: A Benchmark of Decentralised Federated Learning for Mental Health Treatment-Response Monitoring Using Synthetic Multimodal Behavioural Data
12:30 - 14:00	LUNCH (Venue: Ferney Main Restaurant)

14:00-15:00	DAY 1 – SESSION 3
	Keynote Address-2 by Prof. Dr.-Ing. Jorge Marx Gómez: " The Evolving Landscape of AI in academia" followed by Q&A
15:00 - 16:00	DAY 1 – SESSION 4
	Session 4 (presenting authors are underlined) Session Chair: Maureen Tanner Venue: Crystal Ballroom
	P39 - <u>Brenda Scholtz and Lynn Fletcher</u>- From Risk to Rigour: Safeguarding Substantial Equivalence in AI-Assisted Research through the Precautionary Principle
	P65 - <u>Anass Bayaga</u> - Beyond One-Size-Fits-All Digital Government: A User-Centric Conceptual Model for Citizens’ Adoption of E-Government Services in Developing Countries
	P33 - <u>Andre Calitz</u>, Margaret Cullen, Ines Oldenburg and Jorge Marx Gómez - Cheating Modality Shift in the Age of AI - Computer Science Students’ Perceptions from Germany and South Africa
16:00 - 16:15	P 73- <u>Jantje Halberstadt</u>, Rita Stein-Redent and Helmut Faasch - Responsible Digital Transformation: The Role of Transformational Entrepreneurship in Socially Sustainable AI-Driven Societies
	TEA BREAK (Venue: Crystal Ballroom)
16:15 - 17:30	DAY 1-SESSION 5
	Session Chair: Timothy Musharu Venue: Crystal Ballroom
	P80 - <u>Kim-Fen Gary Timothy Lew Chuk Wai and Soulakshmee D. Nagowah</u> - Anomaly Detection in Metro
	P86 - <u>Elmarie Kritzing</u>er - Educational Leadership for Digital Transformation: Cultivating a Sustainable Digital Leadership Approach
	P87 - <u>Doorgesh Sookarah</u>, Loovesh Sharma Ramwodin, Vinaye Armoogum and Chiranjiv Mahesh Kumar Aungnoo - RFM-Based Customer Segmentation with K-Means: A Benchmark on the UCI Online Retail Dataset
	P83 - <u>Urshita Devi Lukhoo and Soulakshmee D. Nagowah</u> - AI-IoT Integrated System for Early Plant Disease Detection and Treatment
	P71 - <u>Ajit Kumar Gopee</u>, Safiyah Seedat, Sandhya Armoogum, Loovesh, Ramwodin and Geerish Suddul - Secure IoT-Based Fisheries Monitoring and Traceability Framework for Sustainable Blue Economy in South-West Indian Ocean (SWIO) Small Island Developing States

	DAY 2 – Thursday 01 October 2026
8.45 - 9.30	Registration <u>VENUE: CRYSTAL BALLROOM</u>
09:30 – 10:30	DAY 2 - SESSION 6 Panel Discussion - Beyond Technology: Why Digital Innovation Succeeds or Fails - Prof. Dr. Jantje Halberstadt, Prof. Anass Bayaga, Prof. Dr. Carmen Bachmann, Prof. Brenda Scholtz VENUE: CRYSTAL BALLROOM
10:30 – 11.00	TEA BREAK (Venue: CRYSTAL BALLROOM)
11.00 – 12.30	DAY 2 - SESSION 7
	Session 7 Session Chair : Elsie Kaaya Venue: Crystal Ballroom
	P 70 - Michael Birke, <u>Tim Siedenburg</u> , Gerrit Schumann and Jorge Marx Gómez. - Automated NACE Classification Using Large Language Models: A Comparison of Fine-Tuning and Prompting
	P 42 - <u>Lukas Hein</u> , Jonas Boekhoff, Nico Greb, Matthis Heese, Tom Holthusen, Simon Ostermann, Jabe Peters, Luca Rinesch, Julian Walter, Barbara Rapp, Tim Siedenburg, André Klümpen, Jorge Marx Gómez - Designing a Conversational Knowledge Information System with Retrieval-Augmented Generation for Data Exploration in the Domain of German Tax Auditing
	P 56 - <u>Tom Holthusen</u> et al. - Designing and Evaluating a Conversational Knowledge Information System with Retrieval-Augmented Generation for Data Exploration in the Domain of German Tax Auditing
	P 20 – Maureen Tanner_- The Role of TikTok’s Algorithm in the Creation of Echo Chambers that Shape Mental Health Beliefs and Perceptions of Users
	P 57 - <u>Saira Philip</u> and Jorge Marx Gómez. - Explainability in Prompt-Based Music Generation for AI Literacy Education: A Survey and Conceptual Framework
	P 35 - <u>Timothy Musharu</u> and Jorge Marx Gómez_- Human First When AI Helps Review the Literature: A Checkpoint Protocol Piloted in an Ongoing Scoping Review of AI in Alopecia

DAY 2 - SESSION 8 (PARALLEL SESSION - ONLINE) - AI and Education workshop		
10:00-12:00	Format: Online https://us06web.zoom.us/j/87951843342?pwd=JeOqurSd12136pYTRC1LGPWXqwca9P.1	
	Prof. Dr. Ines Oldenburg, University of Oldenburg / Fac I School of Education and Social Sciences, Dpt. of Educational Sciences Prof. Dr. Clemens Hillenbrand, University of Oldenburg / Fac I School of Education and Social Sciences, Dpt. of Special Education Prof. Dr. Jorge Marx Gómez, University of Oldenburg / Fac II Dpt. of Computing Science / Dpt. of Business Information Systems	
	10:00 h	Opening, Welcome Jorge Marx Gomez, Ines Oldenburg & Clemens Hillenbrand
	10:05 h	Expert Talk von Aster, Prof. Dr. Michael (Zürich, CH/ Potsdam, D): AI in the treatment of math difficulties Rau, Prof. Dr. Franco (Nürnberg, D): Current state of research of Artificial Intelligence in Education AIED from a media education perspective Gcaza, Prof. Dr. Noluxolo (NMU): Cyber Safety Education
	10.35 h	Paper 76: <u>Sven Lampe</u> , Leon Meier, Ines Oldenburg, Clemens Hillenbrand, Jorge Marx Gómez Towards Inclusive AI-Enhanced Vocational Training: A Project-Based Framework for Learners with Intellectual Disabilities
	10:55 h	Paper 7: <u>Karla Yohana Sanchez</u> Mojica, Ender Jose Barrientos Monsalve, Luis Asuncion Perez Dominguez Classification of learning strategies using artificial intelligence for ultra-personalization in higher education
	11:15 h	Paper 24 - <u>David Klotz</u> Navigating the Ethical Landscape of Generative AI in Higher Education: A Multi-Level Normative Framework
	11:35 h	Paper 36 - <u>Indu Pramod</u> Designing a Fair, Explainable, and Context-specific AI Admissions Framework for South African Higher Education
	11:55 h	Summary Jorge Marx Gomez, Ines Oldenburg & Clemens Hillenbrand
	12:00 h	Closing

12.30 - 14:00	LUNCH (Ferney Main Restaurant)
14:00 – 15:30	DAY 2 – SESSION 9
	Session 9 Session Chair : Noluxolo Gcaza- Venue: Crystal Ballroom
	P 28 - <u>Timothy Musharu</u> and Jorge Marx Gómez_- Towards a Transferability-Ready Qualitative Protocol for Cross-National Youth GBV Research Informing AI-Enabled Interventions: Evidence from German and Spanish Focus-Group Pilots
	P 48 - <u>Buhle Mathivha</u> and Luzuko Tekeni - Factors influencing the intention to adopt blockchain for cybersecurity in South African organisations
	P 50 - <u>Mulalo Rasivhaga</u> , Ayanda Pekane and Luzuko Tekeni - The implementation of Artificial Intelligence Frameworks in Banking Institutions in South Africa
	P 38 - <u>Andre Calitz</u> , Margaret Cullen and Ines Oldenburg - Germany and South African Industry Software Developers' Use of GenAI Tools
15:30 – 16:00	P 12 - <u>Wesley Moonsamy</u> - A preliminary enquiry: Toward conceptually stating the performance complexity problem of a single electronic health record for South Africa
	TEA BREAK (Venue: CRYSTAL BALLROOM)
16:00 – 17:15	DAY 2 -SESSION 10
	Session 10 Session Chair : Saira Philip- Venue : Crystal Ballroom
	P 60 - <u>Nirmal Kumar Rampersand</u> and Oomesh Gukhool - A Multi-Tier Genetic Algorithm for Large-Scale Liner Shipping Network Design
	P88 - <u>Loovesh Sharma Ramwodin</u> , Doorgesh Sookarah, Vinaye Armoogum, Chiranjiv Mahesh Kumar Aungnoo, Prasad M - Explainable and Fairness-Aware Telecom Churn Prediction for a Small-Island Market: Evidence from Mauritius
	P 64 - <u>Stevens Phaphadi Mamorobela</u> - A Bibliometric analysis of the effects of Generative Artificial Intelligence on Knowledge Risk Management in Small and Medium Enterprises
	P 40 - Vimal Panchoo_et al._- A Semantic-Based Chatbot for Medical Information Retrieval

	DAY 3 - SESSION 11 & 12 (ONLINE) - Friday 02 October 2026	
09:30-10:30	Session 11 Session Chair: Sameerchand Pudaruth Keynote Address-3 by Prof. Wolfram Wingerath: " "It Worked on Staging!" How to Build, Break, and Fix a Global Real-User Monitoring Data Platform " followed by Q&A https://us06web.zoom.us/j/87951843342?pwd=JeOqurSd12136pYTRC1LGPWXqwca9P.1	
10:30-11:30	Session 12 Session Chair: Sameerchand Pudaruth Keynote Address-4 by Prof. Darelle van Greunen : " "Reimagining creativity and critical thinking with AI" followed by Q&A https://us06web.zoom.us/j/87951843342?pwd=JeOqurSd12136pYTRC1LGPWXqwca9P.1	
11.30-13:00	DAY 3 - SESSION 13 & 14 (ONLINE) (Details of Online meeting link for the Online Sessions at the end of document)	
	Session 13 Session Chair: Sven Lampe	Session 14 Session Chair: Ali Akyol
	P 32 - <u>Waldon Hendricks</u> - Edge-Based Semantic Surveillance Using ONNX Object Detection and Vision-Language Models with Prompt-Constrained Inference	P 9 - <u>Danila Valko</u> , Rohan Paranjpe and Jorge Marx Gómez - An Empirical Evaluation of BMSSP and Dijkstra's Algorithm for Lightning Network
	P 10 - <u>Steffen Meeuw</u> and Jorge Marx Gómez - Computer Vision for Automated Inventory Counting in Warehouse Environments: A Structured Literature Review	P 30 - <u>Anthony Kingsley Sackey</u> , Baldreck Chipangura and Hugo Lotriet - Design of Personalised Social Comparison-based Learning Analytics Dashboard Informed by Kolb's Experiential Learning Theory
	P 14 - <u>Silvio Langer</u> , Fabiano Hessel and Jorge Marx Gómez - Blockchain Technology in Higher Education Management: A Scoping Review	P 37 - <u>Hergen Pargmann</u> - Cybersecurity and ICT Risk Management in the Financial Sector with Artificial Intelligence: An AI-Based Method for Compliance Checking of Internal Bank Documents Against DORA and RTS RMF
	P 17 - <u>Juan A. Torres De La Chica</u> , Bruno Ramos-Cruz, Francisco J. Quesada-Real and Luis Martínez - VCGForFed: A Fault-Tolerant Blockchain Orchestration Protocol for Decentralized Federated Learning	P 49 - <u>Jérôme Agater</u> , Ammar Memari, Sara Cherfi, Chahrezed Souidi and Jorge Marx Gómez - From Module Descriptions to Curriculum Graphs: LLM-Based Identification of Semantic Inter-Module Dependencies
	P 22 - <u>Reino Erasmus</u> - Towards an ICT Readiness Assessment Framework for Under-Resourced Schools: Evidence from the Eastern Cape, South Africa.	P 41 - <u>Chuma Dyasi</u> and Lynn Fletcher.- Generative AI Risks in the Banking Sector: A Systematic Literature Review

	P 45 - <u>Maurice Saluschke</u> and Jorge Marx Gómez - Graph-Guided Synthetic Question-Answer Dataset Generation for Evaluating Retrieval-Augmented Generation in Internal Audit	P 43 - <u>Emmanuel Opoku Debrah</u> , Corne J. Van Staden and Sunet Eybers - Psychological and Affective Factors of User Satisfaction in Mandatory Student Information Management Systems (SIMS)
	DAY 3 – SESSION 15 & 16 (ONLINE)	
	Session 15 Session Chair : Waldon Hendricks	Session 16 Session Chair : Sven von Höveling
	P 11 - <u>Steffen Meeuw</u> and Jorge Marx Gómez - Characterizing Outdoor Warehouse Environments for Automated Inventory	P 61 - <u>Ronizza Mangaya-Ay</u> and Bertram Haskins - Interpretable Machine Learning for Autism Spectrum Disorder Screening
	P 44 - <u>Maurice Saluschke</u> - Retrieval-Augmented Generation in the Assurance Ecosystem: A Systematic Literature Review on Transferability to Internal Audit	P 62 - <u>Benjamin Akinmoyeje</u> and Darelle van Greunen - AI-Enabled Cybersecurity Challenges for the Elderly: Vulnerabilities and Risks Faced by Senior Citizens in South Africa
13:00 – 14:30	P 47 - <u>Sasapu Venkatesh</u> , Jorge Marx Gómez and Prasanjeet Kumar - Hierarchical Fine-Tuning of German BERT for Domain-Specific Construction Process Classification	P 74 - <u>Maximilian Bosse</u> , Johannes Schering and Jorge Marx Gómez - Requirement analysis for data fusion based on non-camera based sensors for cyclist detection
	P 51 - <u>Thabo Maibi</u> , Eldon Burger and Anna-Mart Engelbrecht - Automated Patch Sampling From Whole Slide Images Using Image Texture	P 75 - <u>Sven Lampe</u> , Alexander Eguchi and Chris Kerpa - Beyond Digitisation: RAG-Enabled Semantic Search for Public Sector Document Retrieval
	P 52 - <u>Awongiwe Siyolise Nkata</u> - The Progress of Digital Transformation among Small and Medium Enterprises: The Case of the Financial Sector in South Africa	P 77 - <u>Khurram Shehzad</u> , Sreedhar Kokkarachedu, Jorge Marx Gómez and Prof. Dr. Matthias Wendland - Toward Sustainable Digital Infrastructure: Decentralized Resource Utilization Using Existing Edge Systems

	P 58 - <u>Emmanuel Opoku Debrah</u> , Corne J. Van Staden and Sunet Eybers - Investigating Critical Constructs of User Satisfaction in Mandatory Student Information Management System	P 78 - <u>Ali Akyol</u> and Jorge Marx Gómez - From Open-Source Building Blocks to a Multi-Channel Citizen Air-Quality Portal: A Design-Science Reference Architecture and Its Instantiation
14:30 – 15:45	DAY 3-SESSION 17 (ONLINE)	
	Session 17 Session Chair: Corne Van Staden	
	P 79 - <u>Sven von Höveling</u> - Agent-Ready Data Provisioning: Toward Discoverable, Interpretable, and Reproducible Data for LLM Agents	
	P 85 - Elmarie Kritzinger, <u>Dorothy Scholz</u> and Sithokozile Lilyrose Mcanyana - Safety awareness for young digital users against digital predators and threats	
	P 89 - <u>Bhekisipho Twala</u> - The Energy–Accuracy Frontier: Multi-Objective Ensemble Search as a Procurement Instrument for Resource-Constrained Institutions	
	P 90 - <u>Norma P. Rodríguez-Cándido</u> , Rafael A. Espín-Andrade and Jorge Marx-Gómez - Wide Knowledge Discovery as a Digitalisation Strategy for Hybrid Augmented Intelligence: Evidence from Three Iterations on Technical Trading Models	
	P 91 - Nassirah Laloo, <u>Nagaissen Valaydum</u> and Mohammad Sameer Sunhaloo - Development of an AI-Assisted Human Motion Analysis Framework for Automated Push-Up Technique Assessment and Coaching	
15:45 – 16:00	Closing Remarks and Award Ceremony	

Online Link for Keynote Speech, Session 13, 15 and 17

<https://us06web.zoom.us/j/87951843342?pwd=JeOqurSd12136pYTRC1LGPWXqwca9P.1>

Online Link for Session 14 and 16

<https://us06web.zoom.us/j/81347944713?pwd=i5YpVLSzQVabDFuQg9SGkzxpW4lB0U.1>