



NAMIBIA  
UNIVERSITY  
OF SCIENCE  
AND TECHNOLOGY



**JBS**  
JOHANNESBURG  
BUSINESS SCHOOL

**THIRD** INTERNATIONAL CONFERENCE ON  
INFORMATION SYSTEMS AND EMERGING  
TECHNOLOGIES (ICISET)  
**PROGRAMME**

**THEME**

Artificial Intelligence and Emerging  
Technologies for Sustainable  
Development: Interdisciplinary  
Solutions

14-16 October  
2024



Johannesburg  
Business School  
(JBS) Auditorium



Join us Online:

[www.tinyurl.com/ICISET  
2024-online](http://www.tinyurl.com/ICISET2024-online)



Queries: [jbs.innovationlab@uj.ac.za](mailto:jbs.innovationlab@uj.ac.za)  
Conference Website: <https://jbs.ac.za/iciset-2024/>

ICISSET 2024  
Conference Programme: 14th - 16th October 2024

Day 1: Monday, 14th October 2024

Time	Event
09:00 - 09:10	Opening Speech by the Dean of Johannesburg Business School
09:10 - 09:15	Opening Remarks by Dharm Singh Jat (UNESCO Chairholder: Secure High-performance Computing for Higher Education and Research, Namibia University of Science and Technology)
09:15 - 09:45	Keynote Address by Selloane Chaoane (Standard Bank)
09:45 - 09:55	<b>Break</b>
<b>Theme 1: Artificial Intelligence and Machine Learning</b>	
09:55 - 10:10	Godwin Sunday Oloruntoba, Enesi Femi Aminu, Sulaimon Adebayo Bashir <i>A Framework for Enhanced Multi-Concept Based MaCOnto Ontology Evolution</i>
10:15 - 10:30	<b>Roseline Ogundokun and Elizabeth Mkoba</b> - <i>“Genetic algorithm optimization for a hybrid CNN-LSTM IoT networks”</i>
10:30 - 10:40	<b>Break</b>
10:40 - 10:55	Hussaini Abubakar Zubairu, Enesi Femi Aminu- <i>Towards an Improved Semantic Model: An Ontological Based Framework for Misinformation Detection</i>
<b>Theme 2: Blockchain, Cryptocurrencies, and Financial Modeling</b>	
11:00 - 11:30	Technology Exhibition (JBS Innovation Lab)
11:30 - 11:40	<b>Break</b>
11:40 - 11:55	<b>Sikhumbuzo Sabelo Dlamini, Frank Mhando, and Nyankomo Marwa</b> - <i>“Blockchain technology in green bond issuance: A bibliometric and content analysis”</i>
12:00 - 12:15	<b>Oluwaseyi Ebenezer Olalere and Nyankomo Marwa</b> - <i>“Extreme value theory: An application to Ethereum market”</i>
12:15 - 13:15	<b>Lunch Break</b>
<b>Theme 3: Cybersecurity and Data Privacy</b>	
13:15 - 13:30	<b>Bernardino Rafael and Isaac Nhamu</b> - <i>“Parallel data acquisition for investigating private mode browsing in portable and installed enhanced privacy browsers with a case study on Brave”</i>
13:35 - 13:50	<b>Iyaloo Waiganjo, Jude Osakwe, and Ambrose Azeta</b> - <i>“Understanding human behavior in cybersecurity: Integrating behavioral theories into policy implementation and compliance”</i>
13:50 - 14:00	<b>Break</b>
14:00 - 14:30	Keynote Address: <i>[Keynote Speaker 2 Name]</i>
14:30 - 14:40	<b>Break</b>
14:40 - 14:55	<b>Abdool Sattar Cassim, Simon Henry Connell, and team</b> - <i>“A real-time sensor network for greenhouse environmental monitoring”</i>
15:00 - 15:15	Closing Remarks

## Day 2: Tuesday, 15th October 2024

Time	Event
09:00 - 09:30	Keynote Address by Professor Solomon Oyelere on Education and Technology <i>[University of Exeter, United Kingdom]</i>
09:30 - 09:40	<b>Break</b>
<b>Theme 4: Digital Education and Technology Integration</b>	
09:40 - 09:55	<b>Naadhira Seedat and Rishen Roopchand</b> - <i>“Emerging fourth industrial revolution technology implementation to enhance teaching and learning: A case study of virtual reality in undergraduate engineering classrooms in South Africa”</i>
10:00 - 10:15	<b>Mulanduleni Niilungu and Rafael Rodríguez-Puentes</b> - <i>“Augmented reality application in teaching object-oriented programming concepts”</i>
10:15 - 10:25	<b>Break</b>
10:25 - 10:40	<b>Albertina Shilongo, Tania Prinsloo, and Machdel Matthee</b> - <i>“Co-design of entrepreneurial digital technology for indigenous communities: A systematic literature review”</i>
10:45 - 11:00	<b>Olumide Adesina and Lawrence O. Obokoh</b> - <i>“Modelling exchange rate of South African ZAR with deep learning models”</i>
<b>Theme 5: Sustainability and Environmental Technology</b>	
11:00 - 11:30	Keynote Address: <i>[Keynote Speaker &amp; Name]</i>
11:30 - 11:40	<b>Break</b>
11:40 - 11:55	<b>Errol Baloyi, Nokuthaba Siphambili, and Oyena Mahlasela</b> - <i>“Leveraging the power of national television to cultivate a cyber-savvy South Africa”</i>
12:00 - 12:15	<b>Komete Gerard Hloaele, Fungai Bhunu Shava, and Mamoqenelo Priscilla Morolong</b> - <i>“Investigating the techniques for securing electronic health data privacy”</i>
12:15 - 13:15	<b>Lunch Break</b>
13:15 - 13:30	<b>Thembehle Mncube</b> - <i>“Enhanced stability of drones using optimized PID control systems”</i>
13:35 - 13:50	<b>Olalekan Samuel Ogunleye</b> - <i>“Artificial intelligence in smart agriculture: AI applications in optimizing food production, precision farming, and crop management”</i>
14:00 - 14:15	<b>Coffee Break</b>
14:20 - 14:35	<b>Abdool Sattar Cassim and team</b> - <i>“A real-time sensor network for greenhouse environmental monitoring”</i>
15:00 - 15:15	Closing Remarks

## Day 3: Wednesday, 16th October 2024

Time	Event
09:00 - 09:30	Keynote Address: <i>[Keynote Speaker 5 Name]</i>
09:30 - 09:40	<b>Break</b>
<b>Theme 5: Sustainability and Environmental Technology (continued)</b>	
09:40 - 09:55	<b>Nkosikhona Theoren Msweli</b> - <i>“Project-based learning in data analytics: Bridging theory and practice for improved outcomes”</i>
10:00 - 10:15	<b>Richard Maliwatu</b> - <i>“Concept paper: Employing the m-factor to mitigate South Africa’s carjacking and kidnapping pandemic”</i>
10:15 - 10:25	<b>Break</b>
10:25 - 10:40	<b>Aluwani Cedwyn Tshishonga and team</b> - <i>“A systematic review of payload systems for drone-based agriculture: Enhancing efficiency in precision farming”</i>
10:45 - 11:00	<b>Josephina Mikka-Muntuumo</b> - <i>“Decoding NoSQL: Comparative analysis of ArangoDB, Cassandra, and MongoDB query languages”</i>
11:00 - 11:30	Keynote Address: <i>[Keynote Speaker 7 Name]</i>
11:30 - 11:40	<b>Break</b>
11:40 - 12:55	<b>Lunch Break</b>
12:55 - 14:00	Discussions and Networking

# ICISET PROGRAMME

2024

On behalf of the **Johannesburg Business School (JBS)**, **University of Johannesburg**, and our esteemed partner, **Namibia University of Science and Technology**, we extend our heartfelt thanks to everyone who attended and supported the **3rd International Conference on Information Systems and Emerging Technologies**, held from **14th to 16th October 2024**.

Your participation and contributions have truly enriched the forum, creating meaningful discussions on the latest advancements in Information Systems. We would also like to express our deepest gratitude to the authors, whose work has added immense value to this gathering. Special thanks to the peer reviewers, whose efforts ensured the highest academic standards.

We look forward to seeing the continued impact of your research in the proceedings and beyond, with accepted papers set to be published by **Taylor & Francis Book Series**.

Thank you for making this event a success!



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