



NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Faculty of Computing and
Informatics

Programme:

Opening of the International Conferences on Information Systems and Emerging Technologies (ICISSET)

Date: Tuesday, 17 October - Thursday, 19 October 2023

Venue: 6th Floor, High-Tech Transfer Plaza Select (HTTPS),
NUST Lower Campus

Zoom Link: <https://us02web.zoom.us/j/89624239397?pwd=dHCVmVyU3FCV2V5ZjJkK3N5QzBCdz09>

Meeting ID: 896 2423 9397

Passcode: ICISSET@23





DAY 1		
Inaugural Session		
Date: Tuesday, 17 October 2023, Time: 09:00 - 11:00 Venue: Zoom		Director of Ceremonies Prof Fungai Bhunu Shava <i>General Chair, ICISSET School of Informatics, Journalism and Media Technology, FCI, NUST</i>
Time	Activity	Presenter
09:05	Welcoming Remarks	Dr Eroid Naomab <i>Vice-Chancellor: NUST</i>
09:15	Overview of the Conference	Prof Jude Osakwe <i>Local Chair – ICISSET 2023</i>
09:20	Remarks	Ms Machaka Mosehana <i>Director: Centre for Entrepreneurship Johannesburg Business School</i>
09:40	Remarks	Prof Deepak Garg <i>Vice-Chancellor, Sri Rajeshwara University, India</i>
09:50	Remarks	Dr Victor Adejola <i>Consulting Director InsightsDoT, United Kingdom</i>
10:10	Keynote Speaker	Dr Rita Obatolu <i>Director, Rogenesis Dentsu International, United Kingdom</i>
10:30	Inaugural Keynote address	Ms Emilia Nghikembua <i>Chief Executive Officer Communications Regulatory Authority of Namibia [CRAN]</i>
10:40	Vote of Thanks	Mr Gabriel Nhinda
10:45	Tea/Coffee Break	



11:00	Technical Session - ICISET-1	
	Chair 1: Dr Hugh Ellis, NUST Chair 2: Mr Johnson Billawer, NUST Moderator: Ms Jovita Meteus, NUST	
	Speakers	
	Prof Abejide Ade-Ibijola <i>Professor of Computer Science, University of Johannesburg</i>	
	Prof Dr Shah Miah Professor of Business Analytics, University of Newcastle, Australia	
	Prof Olugbenga Oluwagbemi <i>Professor of Computer Science, Middlesex University, United Kingdom.</i>	
13:00-14:00 Lunch Break		
Paper ID	Authors	Title of Paper
2	Mangilanyane Precious Leutle, Sibusiso Charlie Ndlovu, Billy Kalema	Cybersecurity: managing risks in tertiary institutions
8	Elizabeth Frieda, Ndamono Shipena, Attlee M. Gamundani	A Proposed Security Model for Securing IOT Data in Smart Offices
17	Edward Chisala	Technologies Tackling Social Media Cyberviolence



20	Esther Lavinia Ernest, Osakwe Jude and Isaac Nhamu	A Framework for Data Protection and Privacy in Data Service Centres in the Public Sector: A Case Study of a Security Organisation in a Developing Country
7	Akot Benjamin Awanda, Mr Eliazer Mbaeva, Prof Hippolyte N. Muyingi	Evaluating the Usability of M-Agri Market Information Services Application to Provide the Most Useful Services to the Namibian Rural Vegetable Small-Scale Farmers
60	Victoria Shafombabi, Attlee Gamundani, Jovita Mateus	Designing an IOT Smart Farming Data Analytics Model for Urban Farming in Namibia
14:00	Technical Session - ICISSET-2 (Parallel Session)	
	Chair 1: Prof Abejide Ade- Ibijola, UJ	
	Chair 2: Ms Viktoria Shakela, NUST	
	Moderator: Mr Gabriel Nhinda, NUST	
Paper ID	Authors	Title of Paper
10	Ritesh Ajoodha	Enhancing Human Expression Classification using Local Binary Patterns and Support Vector Machines with RBF Kernel in Convolutional Neural Networks
25	Rishen Roopchund, Jerome Andrew, Bruce Sithole.	Effects of Novel Curing Procedures and Bio-additives on Construction Materials: Meta-analysis Quantifications using RevMan Software



30	Hlaudi Daniel.	Paraphrase Generation Model Using Transformer Based Architecture
12	Ritesh Ajoodha.	Exploring Convolutional Neural Networks for Accurate Medicinal Plant Classification Using Leaf Image Features
32	Lionel Hamuntenya, Gloria Iyawa.	Enhancing Customer Retention: A Study on Churn Prediction Models for MTC Namibia Using Machine Learning Algorithms
14:30	Technical Session - ICISET-3(Parallel Session) Chair 1: Prof Jose Quenum Chair 2:Dr Suama L. Hamunyela, NUST Moderator: Eliazer Mbaeva, NUST	
Paper ID	Authors	Title of Paper
50	Viktoria Shakela, Attlee Gamundani	A Systematic Review for Cyber Security Awareness Platforms: Recent approaches and Research Gaps
43	Iyaloo Waiganjo, Edward Valungameka	An Assessment of Cybersecurity Awareness Level in Namibia: Case Study of Windhoek
49	Ericky lipumbu, Isaac Nhamu, Mercy Chitauro	A Comparative Analysis of Information Systems Audit and Digital Forensics Processes
38	Ericky lipumbu, Isaac Nhamu, Mercy Chitauro	Factors Affecting Information Systems Audit Conclusion



42	Mewiliko Jimmy Namutenya, Timoteus Ashipala Sheepo.	Enhancing Digital Diplomacy Through a Unified Communication Framework: A Case Study of Namibia
67	Ejembi Emmanuel, Nggada Hunira, Jose Quenum	Combined Hardware and Software System Failure Analysis Based on a Mapping Model
16:00	Technical Session - ICISSET-4 (Parallel Session)	
	Chair 1: Dr Munyaradzi Maravanyika, NUST	
	Chair 2: Dr Richard Maliwatu, NUST	
	Moderator: Mr Steven Tjiraso, NUST	
Paper ID	Authors	Title of Paper
23	Malik Adeiza Rufai, Muhammad Bashir Abdullahi, Opayemi Aderike Abisoye, Oluwaseun Adeniyi Ojerinde	A Prediction Model for the Classification of Diabetes Mellitus using a Hybrid Machine Learning Approach
65	Meinolf Simbenda, Gloria Iyawa and Jude Osakwe	A Novel Taxonomy for Applications Used in Remote Healthcare Services
66	Josephina Muntuumo Muntuumo	Adoption of Computer Systems in Healthcare: A Case Study of Intermediate Katutura Hospital
24	Emmanuel Udekwe, Chux Gervase Iwu, Olusegun Obadire	Factors Influencing Human Resource Information System Usage in the Public Healthcare Organisations in Western Cape, South Africa



44	Precious Adaji Ochofie, Jesse Ismaila, John Oladunjoye Abiodun, Andrew Ishaku.	Image Segmentation and Object Detection For Automobile Using Opencv and CNN
46	Ambrose Azeta, Vivian Nwaocha, Steve Shofadekan, Steven Tjiraso, Olugbenga Oluwagbemi	Interactive Machine Learning Framework for Predicting Non-Performing Bank Loans

DAY 2

Date: Wednesday, 18 October 2023,

Time: 08:30 - 17:00 (CAT)

Venue: Zoom/HTTPS

8:30	Technical Session – ICSET 5 Parallel session	
	Chair 1: Dr Philip Santos Chair 2: Ms Loini Iiyambo, NUST Moderator: Ms Ndinelago Nashandi,, NUST	
	Speakers <i>Prof Maureen Tanner: Professor of Information Systems, University of Cape Town, South Africa</i> <i>Prof Peter Bath: Professor of Applied Health Data Analytics, University of Sheffield</i> <i>Prof John Zeleznikow: Professor of Information Systems, Victoria Business School, Victoria University, Melbourne, Australia</i>	

Paper ID	Authors	Title of Paper
36	Peter Haufiku, Gloria Iyawa.	A Machine Learning Model to Predict Infant Mortality in Namibia
37	Ayobami Ekundayo, John Kolo Alhassan, Solomon Adelowo Adepoju, Hamzat Aliyu.	Feature Selection Strategies for Enhancing the Accuracy for Polycystic Ovary Syndrome (PCOS) Detection



9	Attahiru Saminu	Improving Information Retrieval Services in Academic Libraries
11	Ritesh Ajoodha.	Unveiling the Disparity: Investigating Factors Impacting
47	Chuks Christian Emenike, Ernest Bhero, Twala Bhekisipho.	Modelling and Prediction of Freeway Traffic Flow Volume Using Machine Learning Techniques
53	Helvi Nelao Iyambo, Gloria Iyawa.	Customer Support Chatbot to Enhance Customer Support Experience Using Machine Learning Techniques: A Review
10:30	Tea/Coffee Break	
10:45	Technical Session – ICISSET 6	
	Chair 1: Prof Guy-Alain Zodi-Lusilao, NUST Chair 2: Dr Azeta Ambrose, NUST Moderator: Mr Julius Silaa	
18	Manyadze Mmbudzeni, Tope Adeyelure, Refilwe Mogase	Readiness assessment model for mobile learning in South African rural high school: a case of Limpopo province.



35	Aina Andima, Gloria Iyawa.	Identifying Persuasive Strategies that Promote the Uptake of STEM Courses by Women and Girls: A Scoping Review
45	Rishen Roopchand, Naadhira Seedat	Technology implementation to enhance teaching and learning: an empirical framework based on South African higher education perspectives.
19	Victoria Munenge, Jude Osakwe	A Big Data Oriented Strategic Approach for Decision Support in Organisations
34	Nkonzwenhle Gwala, Tendani Mawela	Investigating the Internet Skills of Older Adults in South Africa
10:45	Technical Session – ICISET-7 (Parallel)	
	Chair 1: Prof Billy Kalema, University of Mpumalanga, South Africa Chair 2: Dr Pride Chudey NUST Moderator: Sebastian Mukumbira NUST	
Paper ID	Authors	Title of Paper
48	Abisai Kamati, Munyaradzi Maravanyika	An Investigation of the Impact of Ubuntu on the Digital Divide in an E-learning Environment
52	Susan Mangole and Abejide Ade-Ibijola	A Serious Game for Teaching Fundraising to Small Enterprises in South Africa
59	Jude Osakwe, Florence Akpakwu, Teresia Ankome	An Xray on the Challenges of Blended Learning in Educational Management: Teachers Perspective



61	Nur Bala Rabi	Extractive Text Summarization Model for Hausa language
39	Simon Shikongo, Gloria Iyawa, Suama Hamunyela	Can Digital Technologies Tackle Gender Inequality? A Review
40	Magauwane Reneilwe Maepa, Michael Moeti	Smart Occupancy Monitoring System Using IoT Technologies for South African Minibus Taxis
57	Jude Osakwe, Albertina Shilongo, Mercy Ziezo	Optimising Customer Segmentation in Digital Marketing Using Predictive Analytics: A Review of Literature
12:45	Lunch Break	
14:00	Technical Session – ICISSET 8	
	Chair 1: Prof Guy-Alain Zodi-Lusilao, NUST Chair 2: Mr Isaac Nhamu, NUST Moderator: Ms Albertina Shilongo, NUST	
Paper ID	Authors	Title of Paper
64	Jude Osakwe, Gloria Iyawa and Japheth Terande Torruam.	Optimising Student Enrollment Management in Public Universities Using Predictive Modelling: A Survey
14	Ritesh Ajoodha	Enhancing Book Classification Efficiency: A Comparative Analysis of Technology-Driven Approaches



27	Seipati Nyamane, Ashwini Jadhav, Ritesh Ajoodha.	Predicting Academic Success in Blended Learning Environments: A Probabilistic Bayesian Approach Leveraging Student Trajectory Data
28	Helvi Itenge, Emilie Arendttorp, Heike Winschiers-Theophilus, Mathias Sand Kristensen, Anders Skipper Jensen, Margot Breton	The Baobab ScapeTale: Transforming readers into protagonists in an embodied and collaborative hybrid reading game
29	Hlaudi Masethe.	Sentiment Analysis of GEMS application process for Sesotho sa Leboa language using NLP
56	Rubben Nambinga	Beyond Traditional Methods: The Creative Tactics of Music Advertising in a Low-income Informal Settlement
<p>DAY 3 Date: Thursday, 19 October 2023, Time: 08:30 - 17:00 (CAT) Vanue: Zoom/HTTPS</p>		
8:30	Technical Session - ICISET-9 (Parallel)	
	Chair 1: Prof. Samuel Akinsola NUST Chair 2 : Dr Irja Shaanika, NUST Moderator: Dr Simon Muchinenyika, NUST	
Paper ID	Authors	Title of Paper
31	Nkosikhona Theoren Msweli.	A Transdisciplinary Pedagogical Model for Data Science Education



35	Aina Andima, Gloria Iyawa	Identifying Persuasive Strategies that Promote the Uptake of STEM Courses by Women and Girls: A Scoping Review
4	Precious Metiboba, Gabriel Junior Arome, Boniface Kayode Alese	Crsytochain: Towards Securing Electronic Voting Systems in Nigeria
6	Titus Haiduwa, Hedvig Mendonca, Vilho Nakalemo	E-Voting Mobile Application for UNAM Student Representative Council Election
55	Jude Osakwe, Sinte Mutelo, Njideka Obijiofor	Integrating Customer Relationship Management and Business Intelligence to Enhance Customer Satisfaction and Organisational Performance. A Literature Review
8:30	Technical Session - ICISSET-10 (Parallel)	
	Chair 1: Dr Gereon Kapuire, NUST Chair 2: Mr Nkululeko Mthembo, NUST Moderator: Ms Josephina Muntuumo, UNAM	
Paper ID	Authors	Title of Paper
13	Ritesh Ajoodha	Cognitive Data Imputation for Unemployment Rate Forecasting: A Comparative Analysis of Expectation Maximization and Last Known Value Techniques in South Africa



15	Irja Shaanika, Filippus Ilenimutale Nafuka	Enterprise Architecture Framework for the Social Grants' Information Systems in the Namibian Government
16	Irja Shaanika, Vaino Dhimbulukwa Vaino.	Factors influencing the adoption and usage of the Government Offices, Ministries, and Agencies' National One-Stop Portal System
22	Julia Jonas, Gloria Iyawa, Attlee Gamundani	Essential Components of an IT Risk Management Framework for the Financial Services Industry: A Review
26	Agnes Nelao Nghipopile Nyirenda, Chudey Pride	An Assessment of The Implementation of Information and Communication Technology Platforms in Stakeholder Engagement in Namibia's Ministry of Home Affairs, Immigration, Safety and Security.

Valedictory Session

Date: Thursday, 19 October 2023

Time: 12:30 - 13:30

Venue: Zoom

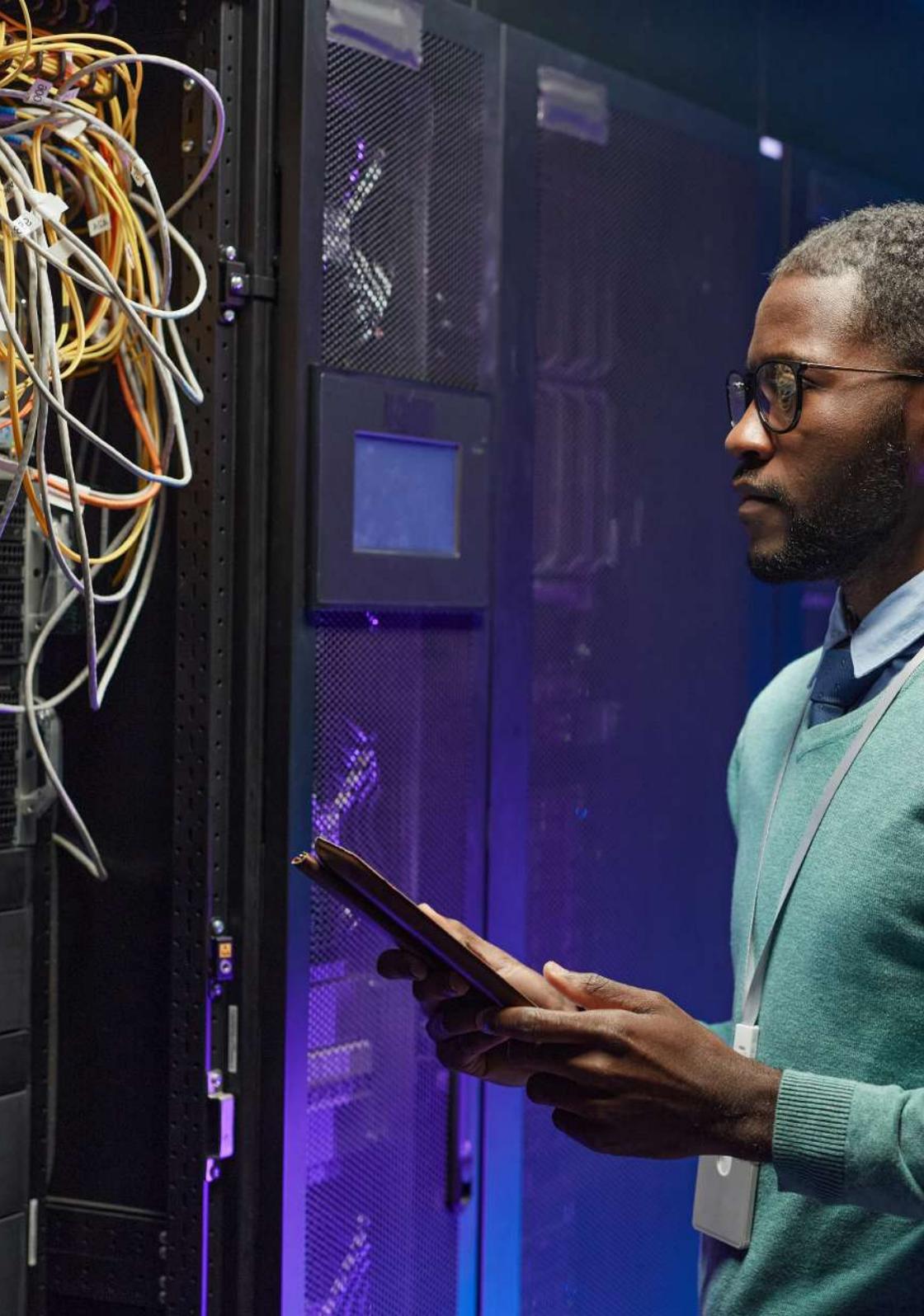
Director of Ceremonies

Prof Suama L Hamunyela

Associate Dean: School of Informatics, Journalism and Media Technology



12:30	Concluding Remarks	Prof Fungai Bhunu Shava <i>General Co-Chair: Acting Executive Dean, Faculty of Computing and Informatics</i>
12:40	Recommendations of the Conferences	Prof Dharm Singh Jat <i>TPC Chair Chairman: ACM Windhoek Chapter</i>
12:50	Remarks	Dr Colin Stanley <i>DVC-RIP, NUST</i>
13:00	Vote of Thanks	Dr Irja Shaanika





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