NICIS
NATIONAL INTEGRATED
CYBERINFRASTRUCTURE SYSTEM
DIRISA

Council for Scientific and Industrial
Research - International
Convention Centre

6th Annual National Research Data Workshop 2024

CSIR International Conference Centre

3 - 4 July 2024

03 July 2024	Speaker	Topic/Activity
07:30 – 08:30 AM	Arrival, Registration and Breakfast	
08:30 – 08:35 AM	Programme Director; ASSAf Planning Manager; Mrs Ina Smith	Welcoming
08:35 – 08:45 AM	NGEI Executive Manager; Dr Lulama Wakaba	Opening
08:45 – 09:05 AM	NICIS Centre Manager; Dr Happy Sithole	Update on South African Cyberinfrastructure Initiatives
09:05 – 09:25 AM	DSI Deputy Director, Cyber Infrastructure; Mr Daniel Mokhohlane	How do we measure the impact of big data in society?
09:25 – 09:50 AM	Co-founder of Africa PID Alliance and Engagement Lead for Global Direct, ORCID; Nabil Aziz Ksibi	Keynote Address: DOCiD (Digital Object Container iD) by the Africa PID Alliance
09:50 – 10:40 AM	CSIR Data Scientist and Research Group Leader; Dr Paul Mokilane	The prediction of the South African elections' outcome
10:40 – 11:00 AM	**BREAK**	
11:00 – 11:15 AM	DIRISA Data Stewardship Manager; Dr Nobubele Shozi	About DIRISA HCD

11:15 – 11:30 AM	DIRISA Senior Software Developer; Mr May Maile	DIRISA Services
11:30 – 11:45 AM	DIRISA Senior Software Developer; Mr Hlawulani Sibisi	DIRISA Services: Single Sign-On (SSO) and Data Management Plan (DMP) system
11:45 – 12:05 PM	CSIR SANReN Researcher & Engineer; Dr Kasandra Pillay	Update on NICIS 100Gbps Data Transfer Services – 1TB in 3mins!
12:05 – 12:25 PM	CSIR Data Librarian; Dr Louise Patterton	Introduction to Research Data at Risk and its Conservation
12:25 – 13:05 PM	**LUNCH BREAK**	
13:05 – 13:25 PM	UKZN Statistics and Senior Data Science Lecturer; Danielle Roberts	Spatial Modelling of Irrigation Water Quality: Assessing SAR in South Africa's Agricultural Landscapes
13:25 – 13:45 PM	UMP Computer Science, Lecturer; Mrs Issah Ngomane	AI model for securing Internet of Things communication systems in smart agriculture **(Online)**
13:45 – 14:05 PM	Stellenbosch University, Research Data Services Manager; Mr Xabiso Xesi	The Significance of CoreTrustSeal Certification: A Case Study of Stellenbosch University
14:05– 14:25 PM	DUT Scholar; Dr Lucy Tambudzai Chamba	Data Management in National Assessments: A Look towards the Future
14:25 – 14:45 PM	Sheffield Hallam University, Senior Data Lecturer; Dr Kassim Mwitondi	A Robust Data Visualisation Technique for Data-Driven Decisions: Illustrations from Power Demand and Supply **(Online)**
14:45 – 15:05 PM	CSIR Information & Cyber Security Centre Researcher; Mr Ross Holder	National Policy Data Observatory (NPDO)
15:05 – 15:25 PM	**BREAK**	
15:25 – 15:45 PM	Altron Senior: Solution Architect, Data Platforms; Mr Mawande Mongo	Technical Track: The Future of Research Data: Open Science, FAIR Principles, and Effective Governance
15:45 – 16:05 PM	Chisquares, COO; Ms Nkosi, Lungile	Technical Track: The Role of AI-Powered Tools in Data Management and Analysis
16:05 – 16:25 PM	CSIR Senior Researcher; Dr Ridhwaan Suliman	Technical Track: Data mining, management and modelling in advancing water and sanitation systems

16:25 – 16:45 PM	Chinhoyi University of Technology Lecturer; Zvikomborero Hweju	Technical Track: Big Data Analytics for Intelligent Temperature Prediction in CNC Machining
16:45 – 16:50 PM	Programme Director; Mrs Ina Smith	Wrap Up Day 1

04 July 2024	Speaker	Topic/Activity
07:30 – 08:30	All	Arrival, Registration and Breakfast
08:30 – 08:35	Programme Director, ASSAf Planning Manager; Mrs Ina Smith	Welcoming
08:35 – 08:55	UKZN Environment Scientist; Orlando Bhungeni	Machine-learning algorithms for mapping LULC of the uMngeni catchment area, KZN
08:55 – 09:15	WSU Lecturer; Sithandiwe Twetwa-Dube	Exploring Technical Challenges in Data Science Fundamentals with Python for First-year Students at a Rural University **(Recorded)**
09:15 – 09:35	SAWS Climate Service Senior Manager; Dr Dawn Mahlobo	Enhancing Climate Services in South Africa
09:35 – 09:55	SMU Software Engineer: Mr. Adivhaho G. Muofhe	Investigating the Prospects of Blockchain Technology in Electoral System
09:55 – 10:15	**BREAK**	
10:15 – 10:35	CSIR, Cybersecurity Researcher; Sthembile Ntshangase	Securing Identity using Biometrics and Zero Knowledge Proofs
10:35 – 10:55	UP Space Institutional Repository Administrator; Mr Tlou Mathiba	Unpacking the Role of Information Specialist at a 21st Century Academic Library: Research Data Management at the University of Pretoria
10:55 – 11:15	UAE, HCT Academic Program Chair; Dr More Chinakidzwa	Building Data Literacy and Data Prioritization in Business.
11:15 – 11:35	UJ PhD Fellow; Mr Musa JAITEH	Machine Learning in HIV Testing: A Bibliometric Analysis of Published Studies 2000-2024

Time	Speaker	Topic
11:35 – 11:55	SMU Software Engineer: Mr Sandile J Buthelezi	Uncovering Seasonal Trends in Motor Insurance Claims: A Gender-Based Analysis
11:55 – 12:15	TUT TO Section Head Data Science and Lecturer; Mr Hlaudi Masethe	Context-Based Question Answering using Large Language BERT Variant Models for Low Resourced Sotho sa Leboa Language
12:15 – 13:00	**LUNCH BREAK**	
13:00 – 13:20	UMP School of Computing Lecturer; Dr. Motselisi Chere	Navigating Ethical and Fairness Implications of Integrating Artificial Intelligence in Higher Education: Challenges, Opportunities, Policy **(Online)**
13:20 – 13:40	UP Data Curation Officer; Ms Rosina Ramokgola	Institutional Repositories as Tools to Enhance Research Visibility and Leverage SDGs
13:40 – 14:00	WSU Computer Science Lecturer; Prof Nobert Jere	Social Engineering a Security Data Management Risk for Novice Internet and Mobile Users
14:00 – 14:20	Liaoning Technical University China Lecturer; Varaidzo Sostina Dandira	Big Data and Machine Learning Skills, Experience, Methods and Usage. Empirical Evidence from Manufacturing Firms. **(Online)**
14:20 – 14:40	UJ Post Doctoral Research Fellow; Dr Claris Siyamayambo	Applications of Artificial Intelligence and Machine Learning to the Diagnosis and Management of STIs: A Bibliometric Analysis
14:40 – 15:00	**BREAK**	
15:00 – 15:40	QuantumCorp SE Director EMEA; Mr Roland Rosenau	Technical Track: Quantum ActiveScale - Durable, Secure, S3-Compatible Object Storage for Data Analytics.... **(Online)**
15:40 – 16:00	WSU IT Academic: Ms N. Mavuso	Technical Track: Health Records Data Management Role of Security
16:00 – 16:05	Programme Director; Mrs Ina Smith	Wrap Up Day 2