



# DIRISA 2024 Annual National Research Data Workshop

## Tuesday 02 July 2024

### Session: Opening - ICC-G-Ruby - Ruby Auditorium (08:00-10:10)

**-Conveners: Ina Smith**

time	[id] title	presenter
08:00	[26] Welcome	Mrs SMITH, Ina
08:05	[27] Opening	Dr WAKABA, Lulama
08:20	[39] Update on South African Cyberinfrastructure Initiatives	
08:35	[28] How do we measure the impact of big data in society?	Mr MOKHOHLANE, Daniel Manama
08:50	[8] DOCiD (Digital Object Container iD) by the Africa PID Alliance	Mr KSIBI, Nabil
09:20	[32] The prediction of the South African elections' outcome	Dr MOKILANE, Paul

### Session: DIRISA - ICC-G-Ruby - Ruby Auditorium (10:30-11:35)

**-Conveners: Ina Smith**

time	[id] title	presenter
10:40	[23] Update on NICIS 100Gbps Data Transfer Services – 1TB in 3mins!	PILLAY, Kasandra

### Session: Technical - ICC-G-Ruby - Ruby Auditorium (12:30-14:30)

**-Conveners: Ina Smith**

time	[id] title	presenter
12:30	[6] Spatial Modelling of Irrigation Water Quality: Assessing SAR in South Africa's Agricultural Landscapes	Dr ROBERTS, Danielle Dr NOCANDA, Xolani
12:50	[3] AI model for securing Internet of Things communication systems in smart agriculture.	NGOMANE, Issah
13:10	[1] The Significance of CoreTrustSeal Certification: A Case Study of Stellenbosch University	Mr XESI, Xabiso
13:30	[2] Data Management in National Assessments: A Look towards the Future	Dr CHAMBA, Lucy Tambudzai
13:50	[4] A Robust Data Visualisation Technique for Data-Driven Decisions: Illustrations from Power Demand and Supply	Dr MWITONDI, Kassim
14:10	[38] National Policy Data Observatory (NPDO)	Mr HOLDER, Ross

### Session: Technical - ICC-G-Ruby - Ruby Auditorium (14:50-16:15)

**-Conveners: Ina Smith**

time	[id] title	presenter
14:50	[29] The Future of Research Data: Open Science, FAIR Principles, and Effective Governance	Mr MAREDI, Thapelo

15:30	[33] Data mining, management and modelling in advancing water and sanitation systems	Dr SULIMAN, Ridhwaan
15:50	[34] Big Data Analytics for Intelligent Temperature Prediction in CNC Machining using PCA and AI	HWEJU, ZVIKOMBORERO Ms DANDIRA-CHIBAYA, Varaidzo
16:10	[40] Wrap Up Day 1	SMITH, Ina

# Wednesday 03 July 2024

## Session: Technical - ICC-G-Ruby - Ruby Auditorium (08:00-09:45)

-Conveners: Ina Smith

time	[id] title	presenter
08:00	[41] Welcome	
08:05	[7] Machine-learning algorithms for mapping LULC of the uMngeni catchment area, KwaZulu-Natal	BHUNGENI, ORLANDO
08:25	[9] Exploring Technical Challenges in Data Science Fundamentals with Python for First-year Students at a Rural South African University	Ms GUMBO, Sibukele
09:25	[22] Investigating the Prospects of Blockchain Technology in an Electoral System	

## Session: Technical - ICC-G-Ruby - Ruby Auditorium (10:15-11:55)

-Conveners: Ina Smith

time	[id] title	presenter
10:35	[12] Securing Identity using Biometrics and Zero Knowledge Proofs	Mrs NTSHANGASE , Sthembile Ms MYAKA, Siphellele
10:55	[13] Unpacking the role of information specialist at a 21st century academic library: Research Data Management at the University of Pretoria.	Mr MATHIBA, Tlou
11:35	[15] Machine Learning in HIV Testing: A Bibliometric Analysis of Published Studies 2000-2024	Mr JAITEH, Musa

## Session: Technical - ICC-G-Ruby - Ruby Auditorium (12:35-14:35)

-Conveners: Ina Smith

time	[id] title	presenter
12:35	[17] Context-Based Question Answering using Large Language BERT Variant Models for Low Resourced Sotho sa Leboa Language.	MASETHER, Hlaudi
13:15	[24] Big data and machine learning skills, experience, methods, and big data usage. Empirical evidence from manufacturing firms in Zimbabwe.	Mrs CHIBAYA, Sostina Varaidzo Dr CHINAKIDZWA, More
13:35	[20] Enhancing Climate Services in South Africa	Dr MAHLOBO, DAWN

## Session: Technical - ICC-G-Ruby - Ruby Auditorium (14:55-16:15)

-Conveners: Ina Smith