Digital Skills, Economic Uncertainty, and Employment

NEMISA 2024 DIGITAL SKILLS SUMMIT
21-23 FEBRUARY

communications & digital technologies — Department Communications & Digital Technologies — REPUBLIC OF SOUTH AFRICA

WSU — Walter Sisulu University — In pursuit of excellence

UNISA — university of south africa

WEDNESDAY 21 FEBRUARY 2023 | DAY 1 (SUMMIT AND COLLOQUIUM) PROGRAMME DIRECTOR: DR PHAHLANE (UNISA) AND PROF THOBEKA NCANYWA (WSU)

Time	Activity	
08:00 - 09:00	Arrival and Registration (all day)	
09:00 - 09:10	Welcome Address	Prof R Songca (Principal and Vice Chancellor	WSU)	
09:10 - 09:20	Message of Support	UNISA	
09:20 - 09:30	Summit & Colloquium Opening Remarks	Ms Molebogeng Leshabane	NEMISA Board Chairperson	
09:30 - 10:00	Official Opening	Mlindi Mashologu	Deputy Director General: Department of Communications and Digital Technologies	
10:00 - 10:45	Keynote	Mr. Philip Thigo (UN Advisory Board on AI & Kenya Presidential Advisor on Technology)	
10:45 - 11:15	**Tea break (Demos & Exhibitions)**	
Track 1: Digital Skills and Rural Development		**Track Chair: Prof P Mkhize (UNISA)**
11:15 - 11:35	Mr. Moses Teffo – Technical Adivsor: GIZ "Findings on Digital Skills"	
11:35 - 11:55	Nomfezeko Ntika and Wallace Chigona (University of Cape Town) Factors Affecting Trust in Government's digital services in South Africa	
11:55 - 13:00	NEMISA Colab Panel Session (Discussions on Reflections about the Digital Skills journey)- Panelists: Ms. S Gumbo (WSU), Dr L Craffert (UWC), Ms. A Lombard (VUT), Prof. C Thakur (DUT), Prof Mankolo Lethoko (UL)	NEMISA PAAC Member| Mr M Lubega
13:00 - 14:00	**Lunch (Posters, Demos and Exhibitions)**	
14:00 - 14:20	Mmakwati Papo and Hlozi Gift Maluleke (University of Limpopo) Assessing The Relationship Between Digital Skills and the Educational Sector Labour Market in the Polokwane Local Municipality, South Africa	
14:20 - 14:40	Prof Vukosi Marivate (ABSA UP Chair of Data Science | University of Pretoria)- "Future trends in AI and local languages"	
14:40 - 15:00	James Lentsoane, Hope Makuwa and Ntjeketli Phooko (University of Limpopo) Exploring Policy Intervention Strategies for Digital Skilled Employment Opportunities in Limpopo.	
15:00 - 15:10	**Tea break (Colab Demos & Industry / SME Exhibitions)**	
15:10 - 15:20	Natasha Katunga, Carlynn Keating and Save Mange (University of the Western Cape) - Approaches to human capital development for the changing world of work: Perspectives on medium-sized organisations in South Africa	
15:30 - 15:50	Moses Sithole(University of Mpumalanga), Azikiwe Agholor, Nomzamo Msweli and Trevor Morepje (University of Limpopo) Towards Sustainable Agriculture: The Opportunities and Challenges of Artificial Intelligence in Agricultural Advisory Services	
15:50 - 16:10	Naledi Pila, Melody Madzivanyika, Bonginkosi Brutas Hlophe and Dr Tlou Meso. (University of Limpopo) - The role of digital literacy on creating youth employment opportunities in the textile industry in South Africa	
16:10 - 16:30	Caroline Magunje and Wallace Chigona (University of Cape Town) - Perceptions of School Management on Cyber-threats: The case of resource-constrained schools in South Africa	
16:30 - 16:50	Wrap up of day and concluding remarks	
17:30 - 19:30	**Summit Cocktail**	**NEMISA CEO	Mr. T Rammitlwa**

THURSDAY 22 FEBRUARY 2024 | DAY 2 (SUMMIT, COLLOQUIUM & DATATHON) PROGRAMME DIRECTOR: DR FERDIE GERBER

Time	Activity	Facilitator
08:30 - 09:00	Registrations (all day)	
Track 2: AI and Education in the Digital Age		**Track Chair: Prof C Thakur (DUT)**
09:00 - 09:20	Vusumzi Funda (University of Fort Hare) Intelligent decision support systems in higher education institutions in developing countries: Systematic Literature Review	
09:20 - 09:40	Annette Mangena and Prisca Sithole (University of Cape Town) - The Impact of Robo-Advisors on Decision Support Management In A South African Financial Sector	
09:40 - 10:00	Nosipho Mavuso and Olutoyin Olaitan (Walter Sisulu University) Education 5.0: Is South African Higher Education Ready?	
10:00 - 10:20	**Tea break (Demos & Exhibitions) / Poster & Research-in-progress presentations**	
10:20 - 11:20	Keynote 2	Prof Mmaki Jantjies (Group Executive Innovation & Transformation | Telkom)	
11:20 - 11:40	Asandiswa Diko and Vusumzi Funda (University of Fort Hare) - Factors Affecting Institutional Readiness for AI Integration in South African Higher Education	
Track 3: Impact of Technology on Media and Employment		**Dr L Craffert (UWC)**
11:40 - 12:00	Reginald Fick (NEMISA Retired) - Digital Readiness in a Digital Revolution: How is community radio responding to digital transformation in the changing broadcast environment of South Africa?	
12:00 - 13:00	Creative Media Panel - Panelists: Ms Sivuyisiwe Giba (SivuBuhle Media), Ms Shoeshoe Qhu (MDDA), Isabelle Rorke (AnimationSA), Dr Mashilo Boloka (FPB)	Deputy Director General – Department of Communications and Digital Technologies – Mr. Mlindi Mashologu
13:00 - 14:00	**Lunch (Demos & Exhibitions) / Poster & Research-In- Progress presentations**	
14:00 - 14:20	Naomi Isabirye (Witwatersand University) Lateef Amusa (Univesity of Johannesburg), Trevor Rammitlwa (NEMISA) and Hossana Twinomurinzi (Univesity of Johannesburg). The Future of Work: Assessing Job Susceptibility for Content Creators	
14:20 - 15:20	NEMISA Datathon 2023 Solutions	Mr Muzi Ntombela (CPSI)
15:20 - 15:35	**Tea break (Demos & Exhibitions)/ Poster & Research-In-Progress presentations**	
Track 4: Software and Technology Impact		**Track Chair : Dr S Mtsweni (UNISA)**
15:35 - 15:55	Dino Giovannoni (Belgium Campus iTversity), Evert Philip Knoesen (Rhodes University) and Jan Mentz (Belgium Campus iTversity) Modelling the Impact of Digital Skills on Employment with a Macroeconomic Agent-Based Model	
15:55 - 16:15	Mr Joseph Ndaba – Mafikeng Innovation Hub - Innnovation Funding	
16:15 - 16:35	Khulekani Mavundla and Colin Surendra Thakur (Durban University of Technology) - Employing Machine Learning Techniques to Analyse Customer Records for Cross-Selling Probability	
16:35 - 16:55	Fallo Khanye, Renette Blignaut, Julia Keddie and Humphrey Brydon (University of the Western Cape) - Insights gained from Smartphone Logging Data Collection	
16:55 - 17:15	Enhle Zandile Yvonne Kheswa and Zama Dlamini (Moses Kotane Institute) – An Assessment of Available Access to Technology in KwaZulu-Natal	
17:15 - 17:20	Day 2 closing and concluding remarks	
18:30 - 21:00	**Gala Dinner (Awards Ceremony & Hackathon Winners)**	

FRIDAY 23 FEBRUARY 2024 | DAY 3 (INNOVATE, ELEVATE, ITERATE: POSTGRADUATE WORKSHOP) PROGRAMME DIRECTOR: PROF COLIN THAKUR

Time	Activity	Facilitator
08:00 - 09:00	Registrations (all day)	
09:00 - 09:45	Master Class: Innovate, Inform, Inspire: Generative AI for Government, Academia, and Industry	Prof N Ochara
09:45 - 10:00	**Tea break (Demos & Exhibitions)/ Poster & Research-In-Progress presentations**	
Track 5: Data Analytics and Public Health		**Track Chair : Ms S Gumbo (WSU)**
10:00 - 10:20	Elias Tabane (University of South Africa) - Cutting-Edge Machine Learning Approaches in DNA Sequence Classification: An In-Depth Examination	
10:20 - 10:40	Elias Tabane (University of South Africa) - Heart Disease Predictions using hybrid LSTM and CNN deep learning models	
10:40 - 11:15	Multistakeholder Panel (Government, Industry, Academia, and Civil Society) - Panelists: Ms. Galit Cohen (Ripplesforchange), Mr. Xola Shona (Dept of Social Dev) Prof. Jere (WSU), Prof. Maria Matshidiso Kanjere (University of Limpopo)	Mr. Trevor Rammitlwa – NEMISA CEO
11:15 - 11:30	Recap	
11:30 - 12:00	Closing remarks	Ms Molebogeng Leshabane	
12:30 - 13:30	**Lunch and departures**	