



NEMISA SUMMIT AND COLLOQUIUM

15-17 FEBRUARY 2022

PROGRAMME



DAY 1: 15 FEBRUARY 2022 | PROGRAMME DIRECTOR: PROF NIC THEO | CPUT AND MS NKOSIKHONA MSWELI | UNISA

Start	End	Auditorium
08:00	09:00	Registration
09:00	09:15	Opening and Welcome - Prof Chris Nhlapo Vice Chancellor, Cape Peninsula University of Technology
09:15	09:30	IPID Information Session - Dr Sam Mwapwele University of The Witwatersrand
09:30	10:00	Research in Data Science - Prof Justine Olawande Daramola Cape Peninsula University of Technology
10:00	10:45	Theory and Theorising in IS Research - Prof Kirstin Krauss University of South Africa
10:45	11:00	Tea break & Networking
STUDENT PRESENTATIONS		
11:15	11:30	Student Presentation: Social Exclusion in AI-infused Gamification Emil van der Poll: PhD Candidate (Information Systems at the University of South Africa)
11:30	11:45	Student Presentation: Effective Utilization of Human Resource Information Systems in the South African Health Sector Emmanuel Udekwe Chux Gervase Iwu, Andre Charles de la Harpe and Justin Olawande Daramola (Cape Peninsula University of Technology)
11:45	12:00	Student Presentation: SMME Readiness Framework for Smart Manufacturing Adoption in South Africa Lucas Gumbi (University of Johannesburg)
12:00	12:15	Student Presentation: Towards AI algorithmic fairness Khensani Xivuri (University of Johannesburg)
12:15	12:30	Student Presentation: Enhancing heart diseases predictions through Convolutional neural network for South African men living in the Western Cape province Elias Tabane (Tshwane University of Technology)
12:30	12:45	Student Presentation: A blockchain solution to drugs counterfeiting in the South African pharmaceutical supply chain Bongisizwe E. Buthelezi (University of Johannesburg)
12:45	13:00	Student Presentation: Democratizing Data Science Education using Microcredentials Nkosikhona T Msweli (University of Pretoria)
13:00	14:00	Lunch & Networking
14:00	15:00	Research Design and Methodology - Prof Rennie Naidoo University of Pretoria
15:00	16:30	Thesis Report Writing and Academic Writing - Prof Wallace Chigona University of Cape Town
16:30	17:00	Networking
17:00	19:00	Opening Cocktail: Meet and Greet - Granger Bay Hotel School

DAY 2: 16 FEBRUARY 2022 | PROGRAMME CO-DIRECTORS: PROF TEMBISA NGQONDI AND PROF HOSSANA TWINOMURUNZI

Start	End	Auditorium
08:00	10:00	Registration (Online and Physical - use more digital mechanisms) SMEs Virtual Exhibition (Video Clips)
10:00	10:10	Welcome from Cape Peninsula University of Technology (Prof Balkaran)
10:10	10:25	Opening and Welcome - NEMISA Chair of the Board Ms Molebogeng Leshabane
10:25	10:35	Message of support: British High Commissioner to SA Mr Antony Phillipson
10:35	10:40	NEMISA Chair of the Board (Ms Molebogeng Leshabane) welcomes Deputy Minister of Communications and Digital Technologies, Mr Philly Mapulane
10:40	11:00	Keynote - Deputy Minister of Communications and Digital Technologies, Mr Philly Mapulane
11:10	11:30	Tea break SMEs Virtual Exhibition (Video Clips)
11:30	13:00	Plenary session: The Future of Government Work National School of Government: (Centre Head C4IR SA) Dr Ntsibane Ntlatlapa Human Sciences Research Council: (Director) Dr Michael Gastrow NEMISA: (CEO) Mr Trevor Rammitlwa University of Johannesburg (Head: Applied Information Systems) Dr Stella Bvuma Dr Mark Nasila (FNB) – Why Design Thinking is Critical in the Artificial Intelligence and Machine Learning Applications Chaired by Prof Nixon Ochara
13:00	14:00	Lunch SMEs Virtual Exhibition (Video Clips)
14:00	15:30	Plenary session: Wellbeing, Organisations and the rise of AI Standard Bank: (Head: Engineering Capability and Ways of Working) Prof Josef Langerman Miss Nomso Kana (Nuclear Scientist) UN representative: Prof Muhhamadou Kah (Gambian Ambassdor to the UN) Ms Cynthia Samuel-Olonjuwon, ILO Assistant Director-General and Regional Director for Africa Ms Anne-Rachel Inné, Regional Director for Africa, International Telecommunication Union (ITU) Chaired by Prof Colin Thakur
COLLOQUIUM		
15:30	17:00	Paper 1: Systematic Mapping of Studies on The Adoption of Digital Work in Developing Countries Ntombiyokusa Nyoni, University of Johannesburg
		Practice note: Prof Kanshu Rajaratnam Director: School for Data Science and Computational Thinking at Stellenbosch University
		Paper 2: Toward the Conceptual Digital Skills Framework in South African Elias Tabane, UNISA
		Tea break SMEs Virtual Exhibition (Video Clips)
		Paper 3: Skilling and Reskilling Students for Relevance in A 4IR Economy Olutoyin Olaitan and Nosipho Mavuso, Walter Sisulu University
		Paper 4: Swarm Control Mechanisms for Creating Swarm Intelligence Ontologies Colin Chibaya, Sol Plaatje University
18:30	21:00	Gala Dinner - Aquarium Theme: African

DAY 3: 17 FEBRUARY 2022 | PROGRAMME CO-DIRECTORS: PROF TEMBISA NGQONDI AND PROF HOSSANA TWINOMURUNZI

Start	End	Auditorium
08:00	09:00	Registration (Online and Physical - use more digital mechanisms)
09:00	09:10	Welcome from NEMISA CEO, Mr Trevor Rammitlwa
09:10	09:40	The Future of Work - Prof C Adendorff (NEMISA)
09:40	11:00	Paper 5: Creativity in the 4IR Curricula th Assistive Technologies Norwell Zhakata, University of Mpumalanga
		Paper 6: Developing Countries' Continuance Usage of E-Services after Covid-19 in the 4IR Era Billy Mathias Kalema, University of Mpumalanga
		Paper 7.1: Data Analytics for South Africa's Sexual Crime Landscape Olayemi S. Falope and Colin Thakur, Durban University of Technology Paper 7.2: Topic Modeling for Crime Monitoring in South Africa Temitope Kekere, Marie Hattingh and Vukosi Marivate, University of Pretoria
		Paper 8: Digital skills development for digitally maturing South African Higher Education Institutions Ilse Kariem, CoLab for e-Inlcusion and Social Innovation
Chaired by Ms Sibukele Gumbo		
11:00	11:30	Tea: Networking & Postgraduate Symposium Posters
SMEs Virtual Exhibition (Video Clips)		
11:30	13:00	Plenary Session: Digital Skills Framework Prof. Walter Claassen Mr Gabriel Ramokotjo (British High Commission) Ms Baratang Miya – CEO Girlhype Coding Academy Ms Gugu Sema – MICT SETA – Senior Manager 4IR Prof Leo Van Audenhove - Vrije Universiteit Brussels
Chaired by Prof Leona Craffert		
13:00	14:00	Lunch time
SMEs Virtual Exhibition (Video Clips)		
14:00	15:00	Paper 9: Factors Affecting the Use of Infomediaries In mHealth Interventions: Case of Maternal Healthcare Priscilla Maliwichi and Wallace Chigona, University of Cape Town
		Practice note: 5 - Lindiwe Matlali - 4IR and the Next Generation
		Paper 10: Operationalising the Future of Work Naomi Isabirye, Hossana Twinomurinzi, University of Johannesburg and Trevor Rammitlwa, NEMISA
Chaired by Ms Antoinette Lombard		
15:00	16:30	Plenary session: Ethics, Governance and Compliance in AI and Data Science in a Changed World Philosopher: Dr Rachel Adams - Researchictafrica Educationist: Prof Johannes Cronje (CPUT) AI Specialist: Ms Deshni Govender (GIZ SA)
Chaired by Prof Leona Craffert		