



NEMISA 4IR Digital Skills Summit and Research Colloquium

Enhancing Human Capacity for the 4IR: It is about people

Birchwood Hotel &
OR Tambo Conference
Centre, Gauteng

11-13 March 2020
09:00 To 16:00

DAY 1: 11 MARCH 2020 | PROGRAMME DIRECTOR: PROF HOSSANA TWINOMURINZI

Start	End	Room: OR Tambo 1	
08:00	09:00	Registration	
09:00	09:10	Introduction to Summit, Colloquium and Hackathon Administrative Matters	
09:15	09:45	Opening and Welcome - NEMISA Chair of the Board Ms Molebogeng Leshabane	
09:45	10:00	Digital Skills Research - Key findings (Prof H Twinomurinzi UNISA)	
10:05	11:10	Plenary session: Interministry Collaboration (Chaired by Prof Mpho Chaka) Communications and Digital Technologies: Mr Alfred Mashishi Higher Education, Science and Technology: Mr Randall Faulmann Organised Labour: Mr Mpho Tshabalala Basic Education: Mr Seliki Thlabane	
11:10	11:40	Tea break & Networking	
		Room: OR Tambo 1	Room: OR Tambo 2
11:40	12:50	Plenary & Presentation Societal Inclusion & Scaling Models: NEMISA Colabs & Inhouse KwaZulu Natal: Dr Colin Thakur Southern Gauteng and Northern Cape: Ms Antoinette Lombard Mpumalanga: Dr Bukelwa Ngoqo Western Cape: Dr Leona Craffert Limpopo: Dr Farivar Rahimi NEMISA: Ms Tebogo Ngxande & Mr Doc Fick Eastern Cape: Ms Sibukele Gumbo North West: Prof Mpho Chaka	Colab Exhibitions
12:30	13:30	Lunch & Networking: Cloversgreen	

12:50	13:50	Lunch & Networking: Cloversgreen	
13:50	15:00	Plenary & Presentation Thought Leadership for Human Centric Approaches to the 4IR: NEMISA Colabs & Inhouse KwaZulu Natal: Dr Colin Thakur Southern Gauteng and Northern Cape: Ms Antoinette Lombard Mpumalanga: Dr Bukelwa Ngoqo Western Cape: Dr Leona Craffert Limpopo: Dr Farivar Rahimi NEMISA: Ms Tebogo Ngxande & Mr Doc Fick Eastern Cape: Ms Sibukele Gumbo North West: Prof Mpho Chaka	Colab Exhibitions
15:00	15:10	Tea break	
15:10	16:30	Plenary session: Technology and People (Chaired by Dr Leona Craffert) Dr. Ilse Mariën Studies in Media, Innovation and Technology Dr Michael Gastrow Human Sciences Research Council (HSRC) & 4IR Commissioner Hon Michael Onyango Future of Work Kenya Mr Emeka Onyia Afri EximBank Prof Justice Djokoto Central University, Ghana Mr Kyle Parker Informed Decisions	Colab Exhibitions
16:30	17:00	Networking	
17:00	20:00	Gala Dinner, Entertainment & CISCO Showcase: ACEO Mr Treveen Rabindhnath T Vote of thanks (Serengeti Lapa)	

DAY 2: 12 MARCH 2020 | PROGRAMME DIRECTOR: PROF TEMBISA NGQONDI

Start	End	Room: OR Tambo 1
09:00	09:05	Prof B Mamba: Dean of CSET UNISA Opens the Research Colloquium & Welcomes the keynote
09:05	09:35	Keynote: Prof Christiaan Adendorf 4IR Commissioner and NEMISA Board PAAC Chair (Perspectives on the 4IR Commission and Digital Skills)
09:40	09:45	Board Member: Ms Thobeka Buswana Welcomes Vice Chancellors
09:45	11:00	<p>Plenary session: Vice Chancellors (Chaired by Dr Colin Thakur)</p> <p>Principal and Vice-Chancellor Durban University of Technology Principal and Vice-Chancellor University of Limpopo Principal and Vice-Chancellor North-West University Principal and Vice-Chancellor University of Mpumalanga Principal and Vice-Chancellor University of South Africa Principal and Vice-Chancellor University of Western Cape Principal and Vice-Chancellor Vaal University of Technology Principal and Vice-Chancellor Walter Sisulu University Principal and Vice-Chancellor University of Johannesburg</p>
11:00	11:05	Best paper award, best short paper/abstract, runner-up papers Dr Tendani Mawela
11:05	11:30	Tea: Networking & Postgraduate Symposium Posters (Meet & Greet: VCs and NEMISA Leadership in Plaque Boardroom)

		Room: OR Tambo 1	Room: Cape Town	Room: Heathrow
		Session Chair: Prof Annelie Jordaan	Session Chair: Ms Antoinette Young	Session Chair: Ms Sibukele Gumbo
11:30	12:00	Opportunities for Digital Transformation in Government: A Case for the National Treasury Budget Process (Takalani Rasalanavho and Hossana Twinomurinzi)	A Case Study of Machine Learning as applied to Hearing Aids in South Africa (Prof Herman Myburgh HearX)	11:30 - 11:40 Security and Privacy Challenges in the Internet of Things Devices (Issah Ngomane and Duduzile Masuku) 11:40 - 11:50 Promoting E Health Policies, Strategies & Programmes in South Africa for Universal Health Coverage (Champaklal Chhaganlal Jinabhai) 11:50 - 12:00 Huawei Short Paper (Mogandren Govender)
12:00	12:30	A Case Study of Blockchain as applied in South Africa (Fabian van der Merwe - Microsoft SA)	A systematic literature review of factors influencing the adoption of smart libraries at universities (Osden Jokonya)	Using Machine Learning Algorithms and Data Mining Tools to Diagnosis Heart Diagnosis for Elderly Patients (Elias Tabane)
12:30	13:00	Keynote - Minister of DCDT. Hons Stella Ndabeni-Abrahams		
13:00	13:30	3 x short papers <ul style="list-style-type: none"> Towards a Framework for Examining Compliance of Digital Financial Service Agents to Legislation in Kenya: A Systematic Literature Review (Rebecca Njuguna and Adheesh Budree) From Key Drivers Towards a Frameworks for Media Literacy Training (Annelie Jordaan and Antoinette Lombard) 	Needs Assessment for Basic ICT Literacy Training for Persons with Disabilities: An Eastern Cape Case Study (Mnoneleli Nogwina, Sibukele Gumbo and Ndiyakholwa Ngqulu)	A Case Study of Gamification of Education as Applied in South Africa (Jade Duckitt Sea Monster)

13:30	14:30	Lunch & Postgraduate Symposium Posters		
		Room: OR Tambo 1	Room: Cape Town	Room: Heathrow
		Session Chair: Dr Bukelwa Ngoqo	Session Chair: Mr Andrew Scholtz	Session Chair: Mr Mogandren Govender
14:30	15:00	A case study of Cybersecurity as applied in South Africa (Amukelani Manganyi ABSA)	Up-Scaling ICT for Development Projects in Growing the Digital	A case study of 3D Printing as applied in South Africa (Prof Deon de Beer DSTMerSETA Chair: Innovation and Commercialisation of Additive Manufacturing)
15:00	15:30	The Impact of Cybersecurity Threats on E-Government in Developing Countries: A Case of South Africa (Anass Bayaga and Michael Kyobe)	Digital Transformation in the Context of the 4IR: A case Study from the ICT Department of Eskom (Kayakazi Taleni and Hosanna Twinomurinzi)	Digital Skills and Employability in the South African GIG Economy (Lovemore Khambane and Pitso Tsibolane)
15:30	16:00	Opportunities for the Fourth Industrial Revolution (4IR) in Organisation: A Case of Digital Transformation in EtheKwinil Municipality (Mzuvumile Eric Zondani and Hossana Twinomurinzi)	Social Media, The Law & Online Safety Diana Schwarz (Director/Founder Diana Schwarz Attorneys)	Investigating factors influencing the Adoption of Smart Classrooms at Universities (Osden Jokonya)
16:00	16:30	Potential Implications and The Need to Include Perceived Ease of Use, Perceived Risk and Cultural Values on Citizens' Acceptance of E-Governement Services (Anass Bayaga and Michael Kyobe)	Principals' and Teachers' Experiences and Reflections on the Use of Educational Technology in Selected Rural Mopani-Limpopo Schools in South Africa (Kgomotlokoa Linda Thaba-Nkadimene and Mogatli Allsie)	A survey study on the state of readiness of young South African adults for the Fourth Industrial Revolution in Mpola Mission within eThekwini Municipality (Samuel Ssemugabi and Thobani Mhlongo)
16:30	17:00	Vote of Thanks: Chairperson of the Board Ms Molebogeng Leshabane		
17:00	21:00	Board Member: Mr Melvyn Lubega - Cocktail, Entertainment + Industry Exhibitions		

DAY 3: 13 MARCH 2020 | PROGRAMME DIRECTOR: ANNELIE JORDAN

Start	End	Room: OR Tambo 1
09:00	09:20	Dr Colin Thakur (keynote)
09:20	10:00	Unveiling 4IR Data-Driven Digital Transformation Platform for NEMISA: Adi Eyal (OpenUp)
10:00	13:00	Postgraduate Symposium Posters
13:00	14:00	Lunch
14:00	17:00	Data Science Hackathon presentations
17:00	17:30	Prize-giving ceremony (Board Member Ms Bongekile Filana)
17:30	19:00	Closure, cocktails and entertainment (ACEO: NEMISA)