

SACAIR2024

Southern African Conference for Artificial Intelligence Research

AI for Societal Impact

2 - 6 December 2024

University of the Free State
Bloemfontein

Monday, 2 December 2024 | Unconference

Venue | UFS | Unit for Engineering Sciences

07:30	-	08:30	Registration Tea & Coffee	
08:30	-	08:45	Welcome and Introduction, Johan Van Niekerk Vice Dean for Agriculture, Faculty of Natural and Agricultural Sciences, University of the Free State	
08:45	-	09:30	Changing world of Complexity Science, Jacques Maritz, Engineering Sciences, UFS	
09:30	-	09:50	Data-driven LSTM Power Grid Inertia Estimations	Ethan Codron, Jacques Maritz, Leonardo Rydin-Gorjão, Thomas Drageset and Philip Armand Bester
09:50	-	10:10	Spatio-Temporal Graph Neural Networks for Human Activity Recognition	Suvana Rohanal and Deshendran Moodley
10:10	-	10:30	Temporal Hierarchical Time Series Modeling: A Comparative Analysis of Aggregation Techniques and Model Efficiency	Callyn Blayne Barath and Edgar Jembere
10:30	-	11:00	Tea & Coffee Refreshments	
Session 1 Session Chair: Albert Van Eck, UFS				
11:00	-	11:20	Automatic Grading of First-Year HTML and CSS Assignments	Jocelyne Smith
11:20	-	11:40	Implications of Privacy and Consent on Data-Driven Decision-Making Adoption in Higher Education	Silence Chomunorwa
11:40	-	12:00	Critiquing Cross-Cultural Ethics in Artificial Intelligence in Education	Nasreen Watson
12:00	-	13:00	Lunch Centenary Complex	
Session 2 Session Chair: Stefaans Erasmus, Soil Crop and Climate Science, UFS				
13:00	-	13:20	Exploring Predictive Anomaly Detection in Mineral Processing: A Machine Learning Approach	Morne Du Plessis and Deshendran Moodley
13:20	-	13:40	Exploring Implementations of KLM-Style Defeasible Explanation Algorithms (Poster)	Chipo Hamayobe
13:40	-	14:00	Can an intelligent robot inherit intellectual property?	Csilla Mónika Rácz
14:00	-	14:20	Algorithm Marginalization: A Problem Beyond Technological Solutions	Bongekile Mkrola
14:20	-	14:50	Tea & Coffee Refreshments	
Session 3 Session Chair: Armand Bester, Pathology, UFS				
14:50	-	15:10	Utilizing Hybrid LSTM-CNN Deep Learning Models for Heart Disease Prediction	Elias Tabane
15:10	-	15:30	Propolingo: A Language Learning Application for Propositional Logic (Poster)	Bonga Gibson Baleni and Clayton Baker
15:30	-	15:50	A Comparative Study of Contemporary Cross Sectional Hierarchical Time Series Reconciliation Techniques	Ahana Maharaj
15:50	-	16:10	Break	
16:10	-	16:20	Announcement of the best student presentation by Jacques Maritz, UFS	
16:20	-	16:40	Closing by ICDF team	
16:40	for	17:00	Meet at the UFS Sci-Ed Science Education Centre for the Unconference Ice-Breaker Function	