AfriAI Lab
Innovate Africa

2ND INTERNATIONAL CONFERENCE ON THE ADVANCEMENTS OF ARTIFICIAL INTELLIGENCE IN THE AFRICAN CONTEXT

OFFICIAL PROGRAM SCHEDULE & TIMETABLE

AAIAC 2026

DATE: 22 Jul 2026 – 23 Jul 2026 | LOCATION: Mlimani City Conference Centre, Dar-es-Salaam

Theme: "Harnessing Artificial Intelligence for an Inclusive and Sustainable Digital E..."

Day 1 — Wednesday, 22 July 2026

TIME	SESSION TITLE & TYPE	VENUE / ROOM	SPEAKERS / PRESENTERS
08:00 – 09:00	REGISTRATION PRELIMINARIES: Arrival of the participants + Registration	MAIN HALL	Dr. Augustino Kessy
09:00 – 09:20	BOOTH VISITING Booth Visiting Booth Visiting	EXHIBITION ROOM	Hon. Prof. Adolf Mkenda
09:20 – 09:50	WELCOMING Welcoming Remarks	MAIN HALL	Dr Gloriana Monko, Dr Ibrahim Mwammenywa, Prof. Lughano Kusiluka, Prof. Maulilio Kipanyula
09:50 – 10:20	OPENING Official Opening Session	MAIN HALL	Hon. Prof. Adolf Mkenda
10:20 – 11:10	NETWORKING Photo Session + Sponsors recognition + Press conference + Exhibition & Networking	MAIN HALL	N/A
11:00 – 11:30	BREAK Coffee Break	MAIN HALL	N/A
11:30 – 12:00	KEYNOTE Keynote Speech: Dr. Idris Abdulmumin	MAIN HALL	Dr. Idris Abdulmumin
12:00 – 12:30	PRESENTATION Topic 1: Data protection in AI	MAIN HALL	Dr Emmanuel Mkilia

TIME	SESSION TITLE & TYPE	VENUE / ROOM	SPEAKERS / PRESENTERS
12:30 – 13:00	PRESENTATION Topic 2: AI and Data Governance	MAIN HALL	Eng. Maxwell Ababio
13:00 – 14:00	LUNCH LUNCH BREAK	MAIN HALL	N/A
14:00 – 14:20	PARALLEL SESSION Eco-Efficient Neuroimaging: AI-Powered Vasculature Mapping from Routine MRI for Presymptomatic Stroke and Cognitive Impairment Prediction	MAIN HALL	Mr. Jamal Banzi
14:00 – 15:40	PARALLEL SESSION 1st Plenary Session: AI Leadership Perspectives on Building an Inclusive and Sustainable Digital Economy in Africa Panel discussion	Breakout Room 1	Mr. Ben Ruhinda, Dr. Cornelius Kalenzi, Proff Ebenezer Esenogho, Dr. Judith Leo, Dr. Mahadia Tunga, Dr. Mayur Chhipa
14:00 – 14:20	PARALLEL SESSION Intelligence and Metaverse for Education Transformation in Africa: Where are We?	Breakout Room 2	Dr. Alcardo Barakabitze
14:20 – 14:40	PARALLEL SESSION From Prototype to Pilot: Scaling Offline AI Item Writing with Built-in Quality Assurance and Integrity Controls for High-Stakes Examinations	MAIN HALL	Dr. Louisa Muparuri
14:20 – 14:40	PARALLEL SESSION Prioritarian Neuromorphic AI: SNN-Based Diagnostic Model for Equitable e-Health	Breakout Room 2	Mr. Cosmas Knowen
14:40 – 15:00	PARALLEL SESSION Novel Kiswahili Audio Processing Pipeline: An Integrated Approach to Speech Recognition, Sentiment Analysis, and Text Summarization	MAIN HALL	Mr. Kevin Obote
14:40 – 15:00	PARALLEL SESSION Ubiquitous human activity monitoring leveraging AI and modern sensors	Breakout Room 2	Prof Kevin Bouchard
15:00 – 15:20	PARALLEL SESSION Advancing Responsible AI in African Higher Education through Inclusion and Implementation	MAIN HALL	Dr. Helen Olojede
15:20 – 15:40	PARALLEL SESSION Building Technology that Understands the African Child	MAIN HALL	Ms. Tshaamano Mabuba

TIME	SESSION TITLE & TYPE	VENUE / ROOM	SPEAKERS / PRESENTERS
15:20 – 15:40	PARALLEL SESSION From Algorithms to Livelihoods: Human-Centered Artificial Intelligence for an Inclusive and Sustainable Digital Economy in Africa	Breakout Room 2	Dr. Ankit Patel
15:40 – 16:00	PARALLEL SESSION Physics-Informed Machine Learning: Integrating Data with Physics Laws	MAIN HALL	Dr. Manoj Kumar
15:40 – 16:00	PARALLEL SESSION Questions and Answers to all speakers Questions and Answers to all speakers	Breakout Room 1	N/A
15:40 – 16:00	PARALLEL SESSION Questions and Answers to all speakers Questions and Answers to all speakers	Breakout Room 2	N/A
16:00 – 16:30	PARALLEL SESSION Questions and Answers to all speakers	MAIN HALL	N/A

Day 2 — Thursday, 23 July 2026

TIME	SESSION TITLE & TYPE	VENUE / ROOM	SPEAKERS / PRESENTERS
08:00 – 09:00	REGISTRATION PRELIMINARIES: Arrival of the participants + Registration	MAIN HALL	N/A
09:00 – 09:30	PRESENTATION From AI Readiness to Real Impact: Scaling Responsible, Inclusive and Home-Grown AI Solutions in Africa	MAIN HALL	Dr. Eng. Dennis Mwighusa
09:40 – 09:55	PARALLEL SESSION Paper presentations AAIAC2026-02: Digital Divide and Political Instability in the Sahel: Is ICT Access a Catalyst for Peace or Turmoil?	MAIN HALL	Mr. Chefor Meungwe, Dr Mboni Kibelloh, Dr Tabu Kondo
09:40 – 10:10	PARALLEL SESSION Paper presentations Papers: AAIAC2026-59, AAIAC2026-60, AAIAC2026-61, AAIAC2026-62, AAIAC2026-65, AAIAC2026-66	MAIN HALL	Ayodeji Olalekan, Mr. Dawit Shibabaw, Dr Mboni Kibelloh, Munir Awol, Salau Salau, Dr Tabu Kondo, Tesfa Tegegne, Vukosi Marivate

TIME	SESSION TITLE & TYPE	VENUE / ROOM	SPEAKERS / PRESENTERS
09:40 – 09:55	PARALLEL SESSION Paper presentations AAIAC2026-34: A Conceptual Lightweight Multi-Agent Reinforcement Learning Algorithm for Recyclable Waste Segregation at the Urban Deposition Sites	Breakout Room 1	Mr. Matendo Didas, Fredrick Ishengoma, Frederick Chali, Dr. Dr. Matogoro, Ms. Ms. Kivaria
09:40 – 09:55	PARALLEL SESSION Paper presentations AAIAC2026-59: GovVulnAgent: A Multi-Agent Large Language Model Framework for Sovereign Code Vulnerability Detection in Government Information Systems	Breakout Room 2	Mr. Japhari Mbaru, Francis Mbwana, Dr. Jabhera Matogoro, Bahati Zuberi, Erick Kitali, Dr. Dr. Moshi, Dr. Dr. Elisa
09:55 – 10:10	PARALLEL SESSION Paper presentations AAIAC2026-35: Lightweight Vision-Language Models for Handwritten Document Transcription and Classification	Breakout Room 1	Mr. David Bouda, Maïmouna Ouattara, Rodrique Kafando, Aminata Sabane, Tégawendé Bissyande, Dr. Dr. Matogoro, Ms. Ms. Kivaria
09:55 – 10:10	PARALLEL SESSION Paper presentations AAIAC2026-60: Leveraging Transfer Learning and Optimization Techniques in Deep Learning Models for Enhanced TB Detection from Chest X-Rays	Breakout Room 2	Ms. Asia Turra, Dr Tabu Kondo, Gilbert Gilbert, Dr. Dr. Moshi, Dr. Dr. Elisa
10:10 – 10:25	PARALLEL SESSION Paper presentations AAIAC2026-04: An Adaptive Learning Architecture for Real-Time Detection of Data Poisoning and Model Evasion Attacks in Cybersecurity Systems	MAIN HALL	Dr Mboni Kibelloh, Dr Paul Okanda, Ms. Sarah Muriithi, Dr Tabu Kondo
10:10 – 10:25	PARALLEL SESSION Paper presentations AAIAC2026-36: A Critical Analysis of Gender and Disability Inclusion in Selected African National Artificial Intelligence Policies	Breakout Room 1	Dr. Helen Olojede, Faidat Abdullahi, Dr. Dr. Matogoro, Ms. Ms. Kivaria
10:10 – 10:25	PARALLEL SESSION Paper presentations AAIAC2026-61: Authorship-Based Plagiarism and AI-Text Detection: A Systematic Review of Stylometric and Deep Learning Methods (2015–2025)	Breakout Room 2	Mr. Nikiema Issoufou, Bissyandé D'Asise, Trawina Halguièta, Sabané Aminata, Dr. Dr. Moshi, Dr. Dr. Elisa
10:25 – 10:40	PARALLEL SESSION Paper presentations AAIAC2026-10: Context-Aware Adaptive Federated Learning for Privacy-Preserving Intrusion Detection in African IoT Networks	MAIN HALL	Asabe Sandra Ahmad, Dr Mboni Kibelloh, Mr. Mohammed Ajuji, Mustapha Ismail, Dr Tabu Kondo, Yusuf Musa
10:25 – 10:40	PARALLEL SESSION Paper presentations AAIAC2026-37: A transfer learning-based approach for the classification of tree species and the diagnosis of their health status: implementation with a FAIR ...	Breakout Room 1	Mr. Zakaria Keita, Yaya Traore, Sadouanouan Malo, Zoeyande Dianda, Issa Wonni, Dr. Dr. Matogoro, Ms. Ms. Kivaria

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10:25 – 10:40	PARALLEL SESSION Paper presentations AAIAC2026-62: Towards Inclusive Conversational AI in Africa: A Scoping Review and Multi-Channel Design Framework for Low-Resource Environments	Breakout Room 2	Ms. Evelyn Asio, Dr. Dr. Moshi, Dr. Dr. Elisa
10:40 – 10:55	PARALLEL SESSION Paper presentations AAIAC2026-21: Advancements in the Use of AI for Mental Health in Africa: A Systematic Review and Bibliometric Analysis	MAIN HALL	Azan Nyundo, Bertha Shao, Doris Mwengwa, Elihuruma Eliufoo, Dr Florence Rashid, Freddy Nyanda, Fredrick Ishengoma, Dr Gloriana Monko, Habibu Dadi, Innocent Mwombeki, Dr. Jabhera Matogoro, Judith Leo, Kulwa Malyango, Dr Mboni Kibelloh, Salim Diwan, Stephen Kibusi, Dr Tabu Kondo, Veronica Lyimo
10:40 – 10:55	PARALLEL SESSION Paper presentations AAIAC2026-39: A Context-Aware Approach for content-based Recommendation System Leveraging Large Language Model	Breakout Room 1	Mr. Peter Joseph, Victor Odumuyiwa, Dr. Dr. Matogoro, Ms. Ms. Kivaria
10:40 – 10:55	PARALLEL SESSION Paper presentations AAIAC2026-65: From Digital Consumerism to Strategic Sovereignty: Analyzing the Draft EAC Regional AI Strategy (2026)	Breakout Room 2	Mr. Patrick Ndowo, Innocent Nyalala, Dr. Dr. Moshi, Dr. Dr. Elisa
10:55 – 11:10	PARALLEL SESSION Paper presentations AAIAC2026-24: A Hybrid Approach to Psychometric-Based Credit Scoring Using Explainable Expert-Machine Learning	MAIN HALL	Dr Mboni Kibelloh, Dr Tabu Kondo, Debela Desalegn, Azmeraw Bekele Yihew, Beakal Gizachew Assefa, Natnael Argaw Wondimu
10:55 – 11:10	PARALLEL SESSION Paper presentations AAIAC2026-40: Heterogeneous Treatment Effects in Agriculture: A Comprehensive Review of Estimation Methods, Applications, and Challenges	Breakout Room 1	Mr. Fabrice Crinot, Epiphane Sodjinou, Dr. Dr. Matogoro, Ms. Ms. Kivaria
10:55 – 11:10	PARALLEL SESSION Paper presentations AAIAC2026-66: A Low-Cost IoT Edge Framework with Embedded Machine Learning for Predictive Cold Storage Management in Resource-Limited Agriculture	Breakout Room 2	Mr. Stanley Mugisha, Marius Nshekanabo, Benjamin Mucunguzi, Balinda Roland, Dr. Dr. Moshi, Dr. Dr. Elisa
11:10 – 11:25	HEALTH BREAK Health Break Health Break, Networking and Sponsors Exhibition	MAIN HALL	N/A
11:25 – 11:40	PARALLEL SESSION Paper presentations AAIAC2026-27: Sauti Halisi: Towards Direct Speech-to-Text Translation for Colloquial and Code-Switched SwahiliI	MAIN HALL	Mr. Brian Gillo, Mr. Foromo Guilavogui, Dr. Neema Mduma, Mr. Patrick Ndowo

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11:25 – 11:40	PARALLEL SESSION Paper presentations AAIAC2026-41: Explainability of AI Solutions in Security: Where Do We Stand and What Lies Ahead?	Breakout Room 1	Mr. Mohamed Zeba, Tégawendé Bissyande, Aminata Sabane, Dr. Dr. Matogoro, Ms. Ms. Kivaria
11:25 – 11:40	PARALLEL SESSION Paper presentations AAIAC2026-67: Toumöla: Towards an AI-based Medicinal Plant Leveraging Solution for Healthcare using Retrieval-Augmented Generation and Computer Vision	Breakout Room 2	Mr. Foromo Guilavogui, Ansoumane Condé, Abdoulaye Baldé, Mamadou Ly, Francois Toure, Dr. Dr. Moshi, Dr. Dr. Elisa
11:40 – 11:55	PARALLEL SESSION Paper presentations AAIAC2026-29: Speech Synthesis for the Malagasy Low-Resource Language	MAIN HALL	Dr Mboni Kibelloh, Dr Tabu Kondo, Thomas Mahatody, Mr. Tiana Razafimandimby, Volatiana Marielle Ratianantitra
11:40 – 11:55	PARALLEL SESSION Paper presentations AAIAC2026-42: Kernel-Native Packet Steering and Network Function Virtualization for Pod-Level Traffic Engineering in Distributed Container Clusters: An eBPF-...	Breakout Room 1	Mr. Ashish Zombade, Dr. Dr. Matogoro, Ms. Ms. Kivaria
11:40 – 11:55	PARALLEL SESSION Paper presentations AAIAC2026-68: Leakage-Free Fraud Detection in Mobile-First Banking: A PR-AUC Benchmark of XGBoost, Random Forest, and Isolation Forest for East Africa	Breakout Room 2	Mr. Patrick Ndowo, Innocent Nyalala, Dr. Dr. Moshi, Dr. Dr. Elisa
11:55 – 12:10	PARALLEL SESSION Paper presentations AAIAC2026-30: Role of Artificial Intelligence in Advancing Fintech Development in Tanzania’s Financial Sector	MAIN HALL	Abdi Talib Abdalla, Prof Joel Mtebe, Dr Mboni Kibelloh, Dr Tabu Kondo, Tumaini Edgar, Mr. Wilson Vicent
11:55 – 12:10	PARALLEL SESSION Paper presentations AAIAC2026-43: Dirichlet-Based Evidential CNN Ensemble with Monte Carlo Dropout for Robust X-ray Fracture Classification under Acquisition Variability and Mis...	Breakout Room 1	Ms. Rebecca Munuhe, Rufus Gikera, Alessia Guarnera, Dr. Dr. Matogoro, Ms. Ms. Kivaria
11:55 – 12:10	PARALLEL SESSION Paper presentations AAIAC2026-68: A Physics-Informed Random Forest Framework for Multi-Decadal Solar Irradiance Forecasting in Tanzanian Off-Grid Mini-Grids	Breakout Room 2	Mr. Patrick Ndowo, Innocent Nyalala, Dr. Dr. Moshi, Dr. Dr. Elisa
12:10 – 13:10	LUNCH Health Break Lunch Break	MAIN HALL	N/A

TIME	SESSION TITLE & TYPE	VENUE / ROOM	SPEAKERS / PRESENTERS
13:10 – 13:25	PARALLEL SESSION Paper presentations AAIAC2026-05: Federated Sequence Intelligence for Edge NLP: Blockchain-Orchestrated Training with Shallow Recurrent Backbones	MAIN HALL	Dr Mboni Kibelloh, Mr. Sunil Somavarapu, Dr Tabu Kondo
13:10 – 13:25	PARALLEL SESSION Paper presentations AAIAC2026-46: Low-Resource ASR for Kalenjin: Two-Stage Fine-Tuning of Wav2Vec2-XLS-R with KenLM Integration	Breakout Room 1	Mr. Kevin Obote, Annah Muli, Vivian Moraa, Joyce Njiiri, Dr. Dr. Matogoro, Ms. Ms. Kivaria
13:10 – 13:25	PARALLEL SESSION Paper presentations AAIAC2026-70: Resilient Cyber Defence for African Military 5G Networks: A Multi-Stage Hybrid ML Framework for Zero-Day Detection	Breakout Room 2	Mr. Patrick Ndowo, Innocent Nyalala, Dr. Dr. Moshi, Dr. Dr. Elisa
13:25 – 13:40	PARALLEL SESSION Paper presentations AAIAC2026-19: V2V Communication System Using Cognitive Radio and AI for Collision Avoidance	MAIN HALL	Balamurugan G, Raghavendra R, Rajendran A, Venkata Subramaniam S, Mr. Vigneshwaran S
13:25 – 13:40	PARALLEL SESSION Paper presentations AAIAC2026-47: Domain Generalization of Tuberculosis Detection in Chest X-Rays through MixStyle and Multi-Level Augmentation	Breakout Room 1	Mr. Eunchan Hwang, Dr. Dr. Matogoro, Ms. Ms. Kivaria
13:25 – 13:40	PARALLEL SESSION Paper presentations AAIAC2026-71: Predicting Insurgency Hotspots in the Sahel: Leveraging GTD Data for Regional Defence Resource Allocation	Breakout Room 2	Mr. Patrick Ndowo, Innocent Nyalala, Dr. Dr. Moshi, Dr. Dr. Elisa
13:40 – 13:55	PARALLEL SESSION Paper presentations AAIAC2026-25: Improving PV System Efficiency through Machine Learning: Deployment of a Neural Network for Maximum Power Point Tracking (MPPT)	MAIN HALL	Aminata Sabane, David Tsuanyo, Marie-Lise Nakoulma, Dr Mboni Kibelloh, Rodrique Kafando, Sidnoma Lorenza, Dr Tabu Kondo, Tégawendé Bissyande
13:40 – 13:55	PARALLEL SESSION Paper presentations AAIAC2026-49: Enhancing Farm Efficiency: Autonomous Weed and Crop Detection for Automated Weed Removal and Fertilizer Application Using Knowledge Distillation	Breakout Room 1	Mr. Wongel Daniel, Onitsiky Ranaivoson, Abdulwaliyi Jimoh, Dr. Dr. Matogoro, Ms. Ms. Kivaria
13:40 – 13:55	PARALLEL SESSION Paper presentations AAIAC2026-73: AI Governance for Inclusive and Sustainable Digital Economies in Africa: Bridging Policy and Institutional Readiness	Breakout Room 2	Mr. Mohamed Hussien, Dr. Dr. Moshi, Dr. Dr. Elisa

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13:55 – 14:10	PARALLEL SESSION Paper presentations AAIAC2026-31: AI for eGovernance: Leveraging Language Technologies for Inclusivity	MAIN HALL	Ms. Cynthia Amol, Lilian Wanzare
13:55 – 14:10	PARALLEL SESSION Paper presentations AAIAC2026-50: AI Governance, Capacity Building, and Inclusive Innovation: Scaling Africa's Digital Economy	Breakout Room 1	Mr. Victor Oshodi, Grace Akinfoyewa, Dr. Dr. Matogoro, Ms. Ms. Kivaria
13:55 – 14:10	PARALLEL SESSION Paper presentations AAIAC2026-74: An Enhanced Machine Learning Model for the Prediction and Analysis of Crimes Using an Ensemble Learning Technique	Breakout Room 2	Mr. Muhammad Muhammad, Dr. Dr. Moshi, Dr. Dr. Elisa
14:10 – 14:25	PARALLEL SESSION Paper presentations AAIAC2026-32: AI-Enabled Infopreneurship as a Pathway to Inclusive Youth Employment in East Africa: A Critical Perspective from Kenya	MAIN HALL	Mr. Cosmas Knowen, Sadati Okeyo, Joel Nakitare
14:10 – 14:25	PARALLEL SESSION Paper presentations AAIAC2026-52: Teachers' Perceptions of AI-Generated Kiswahili STEM Content in Primary Schools in Tanzania: A TPACK-Based Evaluation	Breakout Room 1	Prof Joel Mtebe, Aron Kondoro, Salome Maro, Dr. Dr. Matogoro, Ms. Ms. Kivaria
14:10 – 14:25	PARALLEL SESSION Paper presentations AAIAC2026-75: Aspect-Based Sentiment Analysis Beyond High-Resource Benchmarks: Trends, Resource Concentration, and the Position of African Languages with Emp...	Breakout Room 2	Mr. Kulwa Malyango, Dr. Jabhera Matogoro, Noe Nnko, Mohamedi Mjahidi, Dr. Dr. Moshi, Dr. Dr. Elisa
14:25 – 14:40	PARALLEL SESSION Paper presentations AAIAC2026-33: Environmental Regime Analysis of Greenhouse Gas Variability: A Machine Learning Approach	MAIN HALL	Erica Kimei, Devotha Nyambo, Dr. Neema Mduma, Shubi Kaijange
14:25 – 14:40	PARALLEL SESSION Paper presentations AAIAC2026-56: Governing the Ungoverned : A GRC Framework for Responsible AI Adoption in African Public Institutions	Breakout Room 1	Mr. Bouchetara Mehdi, Dr. Dr. Matogoro, Ms. Ms. Kivaria
14:25 – 14:40	PARALLEL SESSION Paper presentations AAIAC2026-76: Detection of Phishing URLs by Explainable AI	Breakout Room 2	Mr. Ujjwal Meena, Dr. Dr. Moshi, Dr. Dr. Elisa
15:00 – 15:30	PARALLEL SESSION Poster session Poster session	Main Hall	Dr. Dr. Elisa, Dr. Dr. Moshi

TIME	SESSION TITLE & TYPE	VENUE / ROOM	SPEAKERS / PRESENTERS
15:40 – 16:00	SPONSORS TALK Sponsors Talks (PDPC, DSE, UTT-AMIS, AFRIPRISE) 5mins each sponsor Sponsors Talks (PDPC, DSE, UTT-AMIS, AFRIPRISE) 5mins each sponsor	Main Hall	N/A
16:00 – 16:20	AWARDS Awards Ceremony Co-General Conference Chair and Co-PI, AfriAI Lab	MAIN HALL	Co-PI Sponsors, Conference Chair
16:20 – 16:30	CLOSING Conference Closing General Conference Chair and PI, AfriAI Lab	MAIN HALL	N/A
16:30 – 18:30	NETWORKING Cocktail Party (VIPs) Cocktail Party	MAIN HALL	N/A