









1ST INTERNATIONAL CONFERENCE ON TECHNOLOGICAL ADVANCEMENT IN EMBEDDED AND MOBILE SYSTEMS (ICTA-EMOS)

CONFERENCE PROGRAMME

VENUE: ARUSHA INTERNATIONAL CONFERENCE CENTER DATES: 24TH – 25TH NOVEMBER 2022

All Times are Local (Arusha, Tanzania), EAT

TIME	EVENT	ROOM	RESPONSIBLE		
THURSDAY 24 TH NOVEMBER 2022					
7:00 - 8:15	Arrival and Registration				
8:15 – 8:30	Welcome Remarks		Chair, ICTA-EMoS Organizing Committee (Prof. Anael Sam, Prof. Jorge Marx Gómez)		
8:30 – 8:50	Statement for partners:	Mbayuwayu hall	- Lars Gerold, - Godje Bialluch,		
8:45 – 8:55	Welcome Remarks; - NM-AIST, CENIT@EA Host Institution - Executive Secretary, IUCEA		- NM-AIST Vice Chancellor - Prof Gaspard Banyankibona		
9:00 – 9:30	Opening Remarks from the Chief Guest		Hon. Dr. Peter MATHUKI Secretary General – EAC		
9:30 – 10:00	Keynote address "Safe and Secure AI as an Enabler for future Mobility Services"		Prof. Frank Köster from German Research Institute DLR (AI Centre)		
10:00-10:30	Health Break, Networking and Sponsors Exhibition				
10:30 – 11:00	Keynote address "Project Management in Data Science Projects"	Main Conference Hall	Prof. Jorge Marx Gómez		
	Tutorials and Workshops – Parallel sessions				
11:30 – 13:00	Tutorial on Embedded Systems	Mbuni Room	Prof. Kisangiri Michael & the Embedded Systems Club – CENIT@EA		
11:30 – 13:00	Tutorial on Mobile Systems	Themi Room	Dr. Mussa Ally & the Embedded Systems Club – CENIT@EA		
11:30 – 13:00	Sustainability of the ICT centers of excellence in East Africa	Kololo Room	Mr. Ben Ruhinda Senior Systems Officer and IUCEA dSkills@EA Project Coordinator		

















TIME	EVENT	ROOM	RESPONSIBLE
11:30 - 13:00	Workshop on Academia –	Mbayuwayu	Dr. Judith Leo (Outreach and
	Industry engagement:	hall	Industrial Coordination Unit –
	"Developing strategies for		CENIT@EA)
	Academia – Industry		
	engagement for sustainable		
12.00 11.00	development"		
13:00 – 14:00	Lunch Break (Karafuu Lob		· -
14:00 – 15:00	Sponsors exhibition, Poster s		
Session I Sms	Paper presentat art Systems Development	ions – Paranei s	essions
	Room, Session Chair: Prof. A	naal Sam Dr I	Flizahath Mkoha
15:00 – 15:15		· · · · · · · · · · · · · · · · · · ·	
(Online)	Mobility Transition & Quality of Life (MobiLe)— The development of a qualitative model for conveying significant interdependencies in the complex		
(/	transport system		
	Sreedhar Kokkarachedu and Jorge Marx Gómez		
15:15 – 15:30	Concept integration of APQC	c's Process Class	ification Framework (PCF) and
	Enterprise Architecture Frameworks with Signavio		
	Hans-Jürgen Scheruhn and P		
15:30 – 15:45	_	d Mass Customiz	ation Process in Smart Phone
	Industry	A111 - D1 1. T	
15 45 16 00			Karan Guleri and Harpreet Kaur
15:45 – 16:00			eas to Support use of Websites to ent Information: Case of Tanzania
	Victor Ngessa, Kisangiri Mic	•	
16:00 – 16:15			urface quality as collected by three
(Online)	different technologies	s of cycle path st	arrace quarity as conceived by times
(Omme)	Jana Klemp, Jorge Marx Gór	nez, Johannes Sc	thering and Steven Soetens
16:15 – 16:30			cycles in Net-Centric Systems-of-
	Systems		
	Johann Schütz and Jorge Mar		
	tificial Intelligence Tools and		
	wayu Hall, Session chair: Pro		
15:00 – 15:15			Texts to enrich Internal Audit Data
15:15 – 15:30	Gerrit Schumann and Jorge Machine and Deep Learning		ha Contact of Pig Pracision
13.13 – 13.30	Livestock Farming: A System	• •	<u> </u>
	_		Lampe and Jorge Marx Gómez
15:30 – 15:45	i e e e e e e e e e e e e e e e e e e e		or Improved Image Restoration
(Online)			nwele and Jorge Marx Gómez
15:45 - 16:00	Evidence Based Practices on	Co-Operative So	ocieties Information Record
	Management		
	George Germinous and Muss		
16:00 – 16:15			e Smart Solutions with the Google
	Design Sprint and LEGO® S	•	1 151 ' 0 1' 1
16:15 – 16:30	Marius Wybrands, Barbara R		
(Online)	Data Requirements for the An Bettina Steden and Jorge Man		pany's Car Fleet
			nformatics
Session III – Ethics in Information Systems and Cognitive Informatics Venue: Mbuni Room, Session chair: Gerrit Schumann, Dr. John Tarus			
15:00 – 15:15	A KPI system to measure bic		
	Johannes Schering and Jorge		•

















TIME EVENT ROOM RESPONSIBLE			
15:15 – 15:30 Analysis of Bicycle Use in Germany Cities Based on Smartphone App-	-generated		
(Online) Data	Data		
	Firdaous Hebbal, Johannes Schering, Jorge Marx Gómez and Jana Klemp		
15:30 – 15:45 Barriers to Using Open Data in the Innovation Process	Barriers to Using Open Data in the Innovation Process		
	Ifeoluwapo Fashoro, Antonieta Alcorta de Bronstein and Jantje Halberstadt		
	Multilevel Trustworthiness for improved Process and Network Security in Critical		
	Infrastructures and Domains		
	Hermann Strack, Marlies Gollnick, Sebastian Karius, Robin Kopitz, Meiko Lips		
and Sandro Wefel			
	Competencies for Southern African Computing Sciences Graduate in the Fourth		
(Online) Industrial Revolution			
Rexwhite Tega Enakrire, Brenda Scholtz and Yakobi Khulekani.			
16:15 – 16:30 Evaluating the Impact of Energy Pricing Policies on Households Consu	mntion		
Behaviour in Light of Global Pandemics Using Theoretical System Dyn	Evaluating the Impact of Energy Pricing Policies on Households Consumption		
Model	Hairiic		
Mohamad Hamed and Jorge Marx Gómez			
Session IV – Wireless and Mobile Computing			
Venue: Themi Room, Chair: Prof. Kisangiri Michael, Dr. Godfrey Justo			
15:00 – 15:15 A Machine Learning Internet of Things (IoT) – Adaptive Smart Cloud H	Farming		
System for Small-Scale Farmers in Tanzania			
Alcardo Alex Barakabitze and Ames Robert			
15:15 – 15:30 IoT and health systems in developing countries: A review			
	Doudou Dione, Idy Diop, Demba Faye, Ibrahima Gueye and Sidi Mohamed Farssi		
^	Performance Comparison between Massive MIMO Based Network and		
Conventional LTE Network for High-Speed Broadband Connection in	Rural		
	Areas of Tanzania		
Marko Mwalongo and Kilavo Hassan	ъ.		
15:45 – 16:00 A Machine Learning-Based IoT Environmental Monitoring Platform for	or Data		
Centres Wayne Stayen Okalla Silas Minay Michael Visangini Andrew Vatyon	ho and		
Wayne Steven Okello, Silas Mirau, Michael Kisangiri, Andrew Katum Edwin Mugume	va and		
16:00 – 16:15 IoT-Based Control AND Monitoring System of a Solar-Powered Brush	aless DC		
Motor for Agro-Machines	iicss DC		
Gilbert Minja, Jema Ndibwile and Shubi Kaijage			
16:15 – 16:30 Real-time IoT-based Air quality monitoring and health hazards indicat	or system		
for mines region	1 1		
Daudi Flavian, Ramadhani Sinde and Michael Kisangiri			
16:30 – 17:00 Announcement & Main Chair, ICTA-EMoS Org	ganizing		
Promotion of ICTA-EMoS Conference Committee	-		
sponsors Hall			

















FRIDAY 25TH NOVEMBER 2022

Session Ia – Smart Systems Development Venue: Kololo Room, Session Chair: Prof. Anael Sam, Dr. Elizabeth Mkoba	
9:00 - 9:20	Development of user-friendly digital library resource discovery tool to mitigate
	learners' technical hitches
	Agrey Kato, Eric W. Steinhauer, Elizabeth Ludovick Temba, Michael Kisangiri and
9:20-9:40	Shubi Kaijage Developing an Automated Core Rolling Machine for The Metering Unit's Current
(Online)	Transformer
(Gilling)	Rebecca Magomere, Michael Kisangiri and Silas Mirau
9:40-10:00	A Web-Based Human Resource Management System with Machine Learning
	Techniques
	Gideon Muleme, Shubi Kaijage and Ben Ruhinda
10:00-10:20	Development of a location-based app for the net-working of researchers and
	industry personnel based on innovation
10.20	Ali Akyol and Manuel Zunguze
10:20 - 10:50	Health Break, Networking and Sponsors Exhibition
10:50-11:20	A Loan Application Management System for Efficient Loan Processing: A case of
10000 11020	Muhimbili SACCOS LTD
	Luciana Murimi, Marius Siebert, Godwin Salira, Elizabeth Mkoba4 and Mussa Ally
11:20-11:40	Integrated Academic Programmes Information System for Inter-University Council
	of East Africa (IUCEA)
	Alban Manishimwe, Ben G. Ruhinda and Juru M. Eglantine
11:40-12:00	A Proposed framework for the role of information technology (IT) infrastructure for
(Online)	Administrators' effective remote working
12:00 –	Melinda Chakurira and Michael Kyobe Lunch Break (karafuu Lobby)
12:00 – 13:00	Lunch Break (Karatuu Lobby)
13:30-14:00	Smart Energy Management System for Government Institutions: A Case of the
	Nelson Mandela African Institution of Science and Technology
	Ateny Gabriel Aguto, Sanisse Adrielle Berinkinzo, Zacharie Niyonzima, Anael Sam
	and Ramadhani Sinde
14:00-14:20	Development of the web-based data-driven University Information Management
	System (UIMS) for the Inter-University Council for East Africa (IUCEA) Abel Nshimiye, Mussa Dida Ally, Silas Steven Mirau and Ben Ruhinda
14:20-14:40	Embracing Sustainable Tourism Development through Information Communication
14.20-14.40	Technology (ICT) in Tanzania: Analysis using Selected Tour Operators in Dar es
	Salaam
	Juma James Masele and Nassor Sadick
14:40-15:00	Design And Implementation of a Closed Loop Traffic Control System with Speed
	Control Influence on Proximity Vehicles, and Overriding Capabilities
15.00.15.00	Daniel Mkongo and Zeeshan Khan
15:00-15:20	Explaining Changes in Short-term Water Demand Patterns During the COVID-19
	Pandemic – An Absorptive Capacity Perspective Michael Mattern
15:20 -	Health Break, Networking and Sponsors Exhibition
15:50 — 15:50	izenci Diena, inchrotaing and Oponsous Pamoinon
15:50-16:10	Smart Industrial Electrical Energy Analytics and Forecasting System

































9:40-10:00	
, <u>_</u>	Mobile Based Application for E-services and E-payments A Study case of Habari
	Node Public Limited Company in Arusha, Tanzania
	Umuhoza Ritha, Anael E. Sam and Devotha G Nyambo
10:00-10:20	Smart System for Monitoring and Controlling Oxygen Gas Level in High Purity
	Germanium Detector Room
	Yvonne Uwamahoro, Devotha G Nyambo, Anael Sam and John B Ngatunga
10:20-10:50	Health Break, Networking and Sponsors Exhibition
	Ethics in Information Systems and Cognitive Informatics
	i Room, Session chair: Dr. John Tarus, Dr. Ramadhani Sinde
10:50-11:20	The States Perspective of Blockchain - A Qualitative Content Analysis
(Online)	Hauke Precht, Tim Siedenburg and Jorge Marx Gómez
11:20-11:40	A Proposal to Store Remote Monitoring Sensor Data in a distributed manner, using
11.20 11.10	IOTA Streams and IPFS
	Ali Aminrezaei and Jorge Marx Gómez
11:40-12:00	Predictors of E-Government Adoption in Developing countries: A survey in South
Online	Africa
Omne	Anass Bayaga
12:00-13:00	Lunch Break (karafuu Lobby)
13:30-14:00	DLT Architecture Proposal for IoT applications based on Data Streams
13:30-14:00	* **
	Francisco Moya, Luis Martínez, Francisco Estrella, Rafael Espín, and Jorge Marx Gomez
14:00-14:20	
14:00-14:20	Blockchain-based Crowdfunding Charity Platform
14:20-14:40	Prithivi Rao Appadoo and Roopesh Kevin Sungkur
14:20-14:40	A Conceptual Model of the Benefits and Concerns of Wearable Health Data
	Management Lydia Izu, Brenda Scholt, and Ifeoluwapo Fashoro
14:40-15:00	Lydia 12d, Brenda Schott, and freordwapo Pashoro
14:40-15:00	
	The Data Value Chain Definition
	Dirk Bendlin, Jorge Marx Gómez and Moritz Werther Häckel
15:00-15:20	An Expert System Model for Animal Welfare for Bovine Cattle Dehydration Risk
(Online)	Detection Using Precision Livestock Farming
	Silvia Molina, Emilio Luque and Dolores Rexachs
15:20-15:50	Silvia Molina, Emilio Luque and Dolores Rexachs Health Break, Networking and Sponsors Exhibition
15:20-15:50 15:50-16:10	1
	Health Break, Networking and Sponsors Exhibition
	Health Break, Networking and Sponsors Exhibition Development of an Arithmetic Video Game and Console for Standard I and II Pupils in Tanzania Winny Bundotich, Luciana Murimi, Alvareze Ntafatiro, Michael Kisangiri and
15:50-16:10	Health Break, Networking and Sponsors Exhibition Development of an Arithmetic Video Game and Console for Standard I and II Pupils in Tanzania Winny Bundotich, Luciana Murimi, Alvareze Ntafatiro, Michael Kisangiri and Devotha G Nyambo
15:50-16:10 Session IV – V	Health Break, Networking and Sponsors Exhibition Development of an Arithmetic Video Game and Console for Standard I and II Pupils in Tanzania Winny Bundotich, Luciana Murimi, Alvareze Ntafatiro, Michael Kisangiri and Devotha G Nyambo Wireless and Mobile Computing
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15:50-16:10 Session IV – V Venue: Them 9:00-9:15 9:15-9:30 9:30-9:45 (Online)	Health Break, Networking and Sponsors Exhibition Development of an Arithmetic Video Game and Console for Standard I and II Pupils in Tanzania Winny Bundotich, Luciana Murimi, Alvareze Ntafatiro, Michael Kisangiri and Devotha G Nyambo Wireless and Mobile Computing i Room, Chair: Prof. Kisangiri Michael, Dr. Godfrey Justo IoT Based-System for Fire Detection and Aviation Obstruction Light Monitoring Thierry Ndayitezibiganza, Anael Sam and Devotha G Nyambo A Digital Twin Approach and Challenges for Real-time Automated Surface-drip Irrigation Monitoring: A Case of Arusha Tanzania Joseph Wangere, Ramadhani Sinde, Mussa Ally and Omary Mbwambo IoT on Newborn Room Temperature Control System with Fire Detector: Case Study at Meru Hospital Juma Salim, Ramadhani Sinde and Shubi Kaijage

















	Avith Habonimana, Devotha G Nyambo, Anael Sam and John Ngatunga
10:00-10:15	An Investigation on Internet of Things Technology (IoT) In Smart Homes
	Carmel Nkeshimana, Kwiringira Tumusiime, Amuki Joseph Kesi and Ramadhani
	Sinde
10:20-10:50	Health Break, Networking and Sponsors Exhibition
	Artificial Intelligence Tools and Applications
	i Room, Session chair: René Kessler, Dr. Zeeshan Khan
10:50-11:20	Determining Emotion Intensities from Audio Data Using a Convolutional Neural
(Online)	Network
44 00 44 40	Simon Kiptoo, Kennedy Ogada and Tobias Mwalili
11:20-11:40	Improving Robustness of Optimized Parameters Gradient Tree Boosting for Crime
	Forecast Model
11.20 11.40	Godfrey Justo, Leonard Binamungu and Festo Clemence
11:20-11:40	Feature Selection Approach to Improve Malaria Diagnosis Model's Performance for
	High and Low Endemic Areas of Tanzania Martina Mariki, Neema Mduma and Elizabeth Mkoba
12:00-13:00	Lunch Break (karafuu Lobby)
13:40-14:00	Application of multiple Time Series Models for Forecasting New and Relapse
(Online)	Tuberculosis Cases: A case of Kibong' oto Infectious Disease Hospital in Tanzania
(Omne)	Eunice Silas, Devotha G Nyambo, Anael Sam, Elizabeth Mkoba and Sanket
	Pandhare
14:00-14:20	A Comparative Study of some Pre-Trained Models on Transfer Learning Approach
11100 11120	in Detection and Classification of Cassava Leaf Diseases
	Emmanuel Ahishakiye, Waweru Mwangi, Petronilla Murithi, Danison Taremwa,
	Fredrick Kanobe and Ruth Wario
14:20-14:40	Machine Learning Based Forward Collision Avoidance System: A Case study for
	the Kayoola EVS
	Ali Ziryawulawo, Adonia Mbarebaki and Sam Anael
14:40-15:00	2-Stage Hybrid Based Heterogeneous Ensemble Committee Machine for Improving
	Soil Fertility Status Prediction Performance
	Augustine Josephat Malamsha, Mussa Ally Dida and Sabine Moebs
15:00-15:20	Mask R-CNN model for banana disease segmentation
	Christian Elinisa and Neema Mduma
15:20-15:50	Health Break, Networking and Sponsors Exhibition
15:50-16:10	A machine Learning Prediction Tool for Dolutegravir Associated Hyperglycemia
	for People Living with HIV in Uganda
	Ceaser Wisdom Favor, Sinde Ramadhan, Michael Kisangiri, Levicatus Mugenyi,
	Francis Musinguzi, Martin Balaba, Noela Owarwo, Eva Laker, Ruth Obaikol,
16:10-16:30	Agnes Kiraga, Barbara Castelnuovo and Rosalind Parkes Ratanshi
10:10-10:50	The artificial neural network-based smart number plate for vehicles with real-time
	traffic signs recognition and notification Alexandre Niyomugaba, Neema Mduma and Michael Kisangiri
16:30-17:00	Announcement of Best Papers & Exhibition – Mbayuwayu hall
10.50-17.00	Announcement of Dest I apers & Exhibition – Minayuwayu nan
18:00	Conference Closing Remarks, Prof. Anthony Mshandete (NM-AIST)
19:00	Conference Dinner – Woodpecker Restaurant
	SATURDAY 26 TH NOVEMBER 2022
NATIONAL PARK VISITING/INDIVIDUAL ACTIVITIES	
	THE THE THE THE THE THE THE TOTAL TOTAL THE

















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