

CONFERENCE PROGRAM

(Physical Part)

Timezone is Botswana time (GMT+2)

December 4 th , 2024	
Time	REGISTRATION
08:00-08:30	
08:30-09:30	Welcome Speech <i>Ms. Serty LEBURU</i> Executive Director, BAC, Botswana
	Opening Speech <i>Dr. Galamoyo MALE</i> ICECER'24 Chair, Director of School of Computing and Information System, BAC, Botswana
	Keynote Speech <i>Prof. Dr. Ken'Ichi YANO</i> (Intelligent Robotics Lab., Department of Mechanical Engineering, Faculty of Engineering, Mie University, Japan) Title: Assistive Robot Technologies for Aging Society
	Keynote Speech A Governmental Official from Botswana
09:30-11:00	Session 1 Artificial Intelligence
11:00-11:15	COFFEE BREAK
11:15-12:45	Session 2 Mixed - I
12:45-13:30	LUNCH & Group Photo
13:30-14:00	Poster Session
14:00-15:30	Session 3 Energy & Control
15:30-15:45	COFFEE BREAK
15:45-17:00	Session 4 Mixed - II
17:00-17:15	CLOSING REMARKS <i>Dr. Tebogo Magang</i> Deputy Director Academics, BAC, Botswana

December 4th, 2024

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REGISTRATION

Welcome Speech

Ms. Serty LEBURU

Executive Director, BAC, Botswana

Opening Speech

Dr. Galamoyo MALE

ICECER'24 Chair, Director of School of Computing and Information System, BAC, Botswana

Keynote Speech

08:30-09:30

Prof. Dr. Ken'Ichi YANO

*(Intelligent Robotics Lab., Department of Mechanical Engineering,
Faculty of Engineering, Mie University, Japan)*

Title: Assistive Robot Technologies for Aging Society

Keynote Speech

A Governmental Official from Botswana

09:30-11:00

Session I: Artificial Intelligence

Chair: Gibson Chengetanai

ID	Authors	Title
68	Stewart Muchuchuti , Serestina Viriri	Exploring ResNet50 with Advanced Learning Strategies for Improved Ocular Disease Diagnosis
77	Tshepo Kitso Gobonamang , Dimane Mpoeleng	A Deep Learning Approach to Causal Inference in Human Genomics using Counterfactual Reasoning
194	Gibson Chengetanai , Stewart Muchuchuti, Freedmore Sidume, Rabson Tamukate, Kushata Ntwaetsile, Patience R. Nthekeng	State of the art survey on Artificial Intelligence-based approach for early diagnosis of Tuberculosis
199	Freedmore Sidume , Stewart Muchuchuti, Gibson Chengetanai, Rabson Tamukate, Kushata Ntwaetsile, Patience Ntekeng	Deep Learning Techniques for Tuberculosis Detection on Chest X-rays in Low-Resource Settings: A Survey of Opportunities and Challenges
33	Mondli Mthombeni, Rebecca Alowo , German Nkhonjera	A Scoping Study on The Use of Artificial Intelligence for Effective Decision Making in the Water Management Space in South Africa
34	Mondli Mthombeni, Rebecca Alowo , German Nkhonjera	SPSS Assessment of Artificial Intelligence for Effective Decision Making in Water Management in South Africa

11:00-11:15

COFFEE BREAK

11:15-12:45

Session II: Mixed - I
Chair: Artwell Regis Muzata

ID	Authors	Title
94	Laurenz Adolph , Lennart Ries, Thilo Braun, Johannes Bernhard, Vishnu Priya Kumar, Eric Sax	A Combined Maneuver-Trajectory Approach to Cluster Real-World Driving Data
190	Muhammad Kudu Muhammad, Ishaq Oyebisi Oyefolahan , Olayemi Mikail Olaniyi, Ojeniyi Joseph Adebayo, Francis Osang, Idris Mohammed Kolo	Learners' Privacy Preserving Scheme for Ranking Data Sensitivity in Mobile Learning System
195	Délio Polana , Orlando Zacarias	Model for systems migration to Cloud Computing in Mozambique: The case of INAGE
257	Artwell R. Muzata , Ghanshyam Singh, Mikhail S. Stepanov, Innocent Musonda	Immersive Education: Exploring the Combination of New Technology and Virtual Reality in Real-Time Teaching
52	Boago Okgetheng, Gabofetswe Malema	Context-Aware Sentiment Analysis in Setswana
158	Obafemi O. Olatunji , Paul A. Adedeji, Nkosinathi Madushele	Support Vector Regression for the prediction of Net Power output in Downdraft gasifier

12:45-13:30

LUNCH & Group Photo

13:30-14:00

Poster Session

ID	Authors	Title
375	Marius Misaros , Dan Ioan Gota, Ovidiu-Petru Stan, Liviu Miclea	Reliability Assessment of a Hardware Device. A Use Case Study of a Text-to-Braille Translator
376	Dan Ioan Gota , Marius Misaros, Ovidiu-Petru Stan, Liviu Miclea	Optimizing Indoor Plant Care: Monitoring Systems and Reliability Assessment
377	Marius Misaros, Dan Ioan Gota, Vlad Muresan , Liviu Miclea	Pit detection using convolutional neural networks
379	Ioan Valentin Sita , Iulia Maria Chiş	An overview of non-invasive blood glucose measurement devices using microcontrollers
382	Radu Miron , Vlad Mureşan, Mihai Hulea, Camelia Avram	Blockchain in Logistics and Smart City Transportation: A Hyperledger Fabric-Focused Literature Review
319	Richard Ramchurn, Joanne Parkes , Callum Berger, Giovanni Schiazza	Before We Disappear: The New Faces of Interactive Media
51	Yi-Sheng Huang , Yi-Shun Weng, Wei-Chih Wang	Integrated Traffic Congestion Control Strategies Using Cell Transmission Model and Advanced Mathematical Modelling Techniques
38	Giancarlo Storti Gajani , Giambattista Gruosso, Paolo Maffezzoni	Passivity and its relation to stability in LRTI N-ports
191	Rumbidzai Tanya Machera , Stewart Muchuchuti	Cloud computing technology enhances the performance of small businesses

14:00-15:30

Session III: Energy & Control

Chair: Rositsa Velichkova

ID	Authors	Title
42	Rositsa Velichkova , Aleksandar Stanilov, Angel Aleksandrov, Rangel Sharkov, Martin Pushkarov, Iskra Simova	Experimental Investigation of Axial Hydrokinetic Turbines
45	Helmuth P. E. Morath , Alejandra M. Castro-Chong, Florian Protze, Jens Wagner, Yana Vaynzof, Frank Ellinger	Advancing Wireless Robotic Skin: A 60 GHz Receiver with Bondwire Antenna supplied by a Perovskite Solar Cell
64	Markus Lehner , Wilhelm Stork	Application and use-cases for a smart distribution grid in developing countries
120	Patrick Manditereza	Sensitive voltage differential method for the protection of long transmission lines compensated with SC
288	Seyed Davood Mousavi , Martin Griese, Thomas Schulte	Dynamic Optimization of CO2 Emissions and Electricity Costs in Smart Factories
200	Mandla Ndlovu	Bridging the Gap: A Comprehensive Analysis of Higher Education Skill Production and Industry Needs in Botswana

15:30-15:45

COFFEE BREAK

15:45-17:00

Session IV: Mixed - II

Chair: Kenichi Yano

ID	Authors	Title
41	Riku Shibahara , Ken'Ichi Yano, Takeshi Nakamura, Kenji Eguchi, Koichiro Asai	Heat Pattern Design System for a Wire Coil Annealing Process for Specialty Steel
294	Chan Lee , Sang Ho Yang, Hyeong Jin Lee	Multi-objective Optimization of a Variable-Pitch Axial Flow Fan Design
357	Mopati Kekgathetse , Botlhe Lucas, Mavuna Sebapalo	A Systematic Review on Cyber Security Integration in Information Technology Governance
384	Petronella Nyakudya , Nkosinathi Madushele, Daniel M. Madyira, Ezekiel Evans Matare	Embracing Digital Twin Technology to Enhance Efficacy of Industrial Symbiosis: A Path to Sustainability
272	Thabo Mathonsi	Recovery Device for a Hand to be used by Patients with Mild Stroke Complications

CLOSING REMARKS

17:00-17:15

Dr. Tebogo Magang

Deputy Director Academics, BAC, Botswana

ICECER 2025 will be in Madagascar.

Details are here: <https://www.icecer.com/2025>



ICECER'25
06 - 08 December 2025, Madagascar

