



CALL FOR PAPERS

The 2nd International Conference on Technological Advancement in Embedded and Mobile Systems (2nd ICTA-EMoS)

Date: 19 and 20 September 2024

Location: Sainte Famille Hotel in Kigali, 19 and 20 September 2024 (*Virtual and physical*)

Theme: *Emerging Technologies and EMoS in Sustainable Development*

University of Technology and Arts of Byumba (UTAB), in collaboration with the Higher Learning Institution partners of the CENIT@EA (Centre of Excellence for ICT in East Africa), is delighted to announce the organization of the Second International Conference on Emerging Technologies and Embedded and Mobile Systems (2nd ICTA-EMoS) in Sustainable Development.

The conference theme "Emerging Technologies and EMoS in Sustainable Development" aims to explore the dynamic interplay between emerging technologies and Embedded Mobile Systems (EMoS) in advancing sustainable development goals. We invite scholars, practitioners, policymakers, and industry experts to contribute to the discussions on innovative approaches, best practices, and research findings in this field and its direct impact to the Sustainable Development.

About UTAB

University of Technology and Arts of Byumba (UTAB) is a fully accredited community-based university. It started as Institut Polytechnique de Byumba (IPB) and began teaching on 26th January 2006 in Byumba Sector, Gicumbi District, Northern Province, Rwanda. On 20th December 2015, IPB upgraded from the status of institute to that of university under the name of University of Technology and Arts of Byumba (UTAB).

Its vision is to become a radiating university of academic and professional excellence for sustainable socio-economic development with the following mission:

- To provide quality higher education and community oriented research
- To shape a skilled workforce in the domains of technology and arts
- To promote a culture of excellence and innovation for quality service delivery

About CENIT@EA

CENIT@EA is the Centre of Excellence for ICT in East Africa. This is the result of the partnership between East African universities and German institutions. CENIT@EA is hosted at the Nelson Mandela African Institution of Science and Technology (NM-AIST).



The implementing partners in collaboration with NM-AIST are Carl von Ossietzky University of Oldenburg (Germany), Deutsche Gesellschaft fuer Internationale Zusammenarbeit (GIZ), Inter-University Council for East Africa (IUCEA), and the German Academic Exchange Service (DAAD).

The implementation of the CENIT@EA is supported by the following partner institutions: University of Technology and Arts of Byumba (Rwanda), University of Dar es Salaam (Tanzania), Kabale University, Uganda, MOI University, Kenya, University of Juba, South Sudan, University of Burundi, Burundi, Université de Kinshasa, Democratic Republic of Congo (DRC), German Aerospace Center (DLR) Braunschweig, Hochschule Mannheim (Germany).

Topics of Interest (but not limited to):

1. Embedded and Mobile Systems (EMoS)

- EMoS and health information systems
- Role of EMoS in sustainable development
- Building economic resilience by EMoS
- Ethics in EMoS

2. Robotics and Artificial Intelligence:

- Predicting and monitoring impact of diseases: blockchain technologies and solutions to problems related to diseases
- Artificial intelligence and nano-robotics
- Robot surgery and economic considerations
- Artificial intelligence tools and sustainable development
- Mobile technologies and various innovations using local materials, drones, i.e., agriculture and health perspective

3. Internet of Things (IoT):

- IoT and agricultural development
- IoT and environment sociology
- IoT and mobile security for sustainable development
- Smart cities

4. Biotechnology:

- Public health and technology: innovative key considerations
- Biotechnology and environmental considerations
- Biotechnology, animal and plant considerations
- Biotechnology and industrial considerations
- Industrial technologies for green economy
- Biotechnology and food security

Submission Guidelines

High quality research contributions describing original and unpublished results of conceptual, constructive, empirical, experimental, or theoretical work in all the areas of Emerging Technologies and EMoS for sustainable development are invited.

All papers should be submitted via EasyChair conference <https://easychair.org/conferences/?conf=2ndictamos>



Recommended paper length: 5-15 pages including an abstract of 200 words with 5 keywords (font 12, Times New Roman, 1.5 line spacing). Only full paper submissions are accepted. All articles must be in English except articles from DRC and Burundi which may be presented in French.

All accepted papers will be published after the conference as conference proceedings with an ISBN number. However, an author can decide to submit his/her paper for possible publication in some selected international peer reviewed journals.

Certificate of presentation will be issued to participants presenting their research in online or in-person sessions.

Certificate of chairing a session will be issued to the chairs acknowledging their role at the conference.

Best Paper Award will be conferred by the Program Committee to the author(s) of the best paper presented at the conference.

Important Dates and Fees

- Call for papers – 25 March 2024
- Full paper submission - 31 June 2024
- Acceptance notification – 31 July 2024
- Registration fee: Online payment (Conference fee)
- Camera ready submission – 15 August 2024
- Conference dates – 19 and 20 September 2024
- ***Note:** Only papers that successfully pass the peer review procedure will be presented and published.

The fees include:

Admission and participation to the conference, one paper to be presented, copy of the conference program, conference certificate, book of abstracts, publication of an accepted paper in the online conference proceedings.

Item	Amount in Euro
Paper Registration (international/Online)	100.00
Paper Registration (international/Physical)	150.00
Registration (East Africa /Online)	100.00
Registration (EMoS students with submitted papers)	50.00
Registration (EMoS students without paper)	50.00
Registration (other students)	100.00
Other participants (non-author participants)	100.00

Organizing and Scientific Committee

Conference Chair: Prof. Dr. Jorge Marx Gomez
Fr. Dr. Lucien Hakizimana
Dr. Antoine Gatera
Technical Advisory: Prof. Dr. Anael Sam
Dr. Devotha Nyambo
Dr. Pancras Ndokoye



Contact Information: For inquiries and further details, please contact the conference secretariat: *icta-emos@utab.ac.rw*

Join us at Sainte Famille Hotel in Kigali for a stimulating exchange of ideas and insights on the transformative potential of emerging technologies and EMoS in sustainable development. We look forward to getting your valuable contributions and active participation in this enriching event.

Warm regards,



Fr. Dr. MUNANA Gilbert, O.P
Vice Chancellor of UTAB