

CALL FOR POSTERS

IMPORTANT DATES:

Poster Submission Deadline: May 30, 2021

Notification of Acceptance: June 20, 2021

Final Poster Submission: July 20, 2021

POSTER CHAIR:

Justice Owusu Agyemang

Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana

E-mail: justiceowusuagyemang@gmail.com

The PAN-AFRICAN Artificial Intelligence & Smart Systems (PAN-AI&SS 2021) will include a Posters session that provides a unique forum to exchange innovative research ideas, recent results, and share experiences among researchers and practitioners in all aspects of Artificial Intelligence and Smart Systems, and Applications.

Submissions for Posters should be a maximum of 3-pages short paper summarizing the key merits of proposed ideas, reporting on initial ideas (and possibly results), and discussing challenges. The papers must follow the Springer MS Word or LaTeX template available at: <https://www.springer.com/us/authors-editors/book-authors-editors/manuscript-preparation/5636>

The poster must contain the authors' names, affiliations, and contact information as well as specify the designated corresponding author. Submissions will be evaluated mainly based on their potential to stimulate interesting discussions, exchange of ideas and promote collaborations.

Sample topics of interest include, but are not limited to:

Track 1: Artificial Intelligence (Theory and Algorithms)

- Advances in Machine Learning (ML) algorithms
- Artificial Neural Networks
- Artificial Immune Systems
- Computational Intelligence
- Cognitive Intelligence
- Capsule Networks
- Evolutionary Computing
- Graph neural networks and reinforcement learning
- Emerging AI technologies and Swarm Intelligence
- Generative Adversarial Training for sparse and noisy datasets
- Multi-agent and Bio-inspired Intelligence for Complex Systems
- Fuzzy Models and Techniques

- Reinforcement Learning
- Machine Learning/Deep Learning on chip
- Meta-learning
- Cognitive analytics
- Quantum machine learning

Track 2: Smart Systems Enabling Technologies

- Internet of Things (IoT)
- Industry Internet of Things (IIOT) and industry 4.0
- Domain-Specific Internet of Things (DS-IoT)
- Personnel Internet of Things (P-IoT)
- Intelligent cyber physical systems
- AI-enabled IoT (smart IoT)
- Embedded Intelligence
- Blockchain-enabled security for IoT and smart systems
- Federated smart systems (systems of smart systems)
- Software Defined smart system architecture
- Performance and reliability modeling smart systems
- Autonomics (self-aware) system management and control
- Intelligent edge computing
- Smart sensor for environment monitoring

Track 3: 5G-Enabled Smart Systems

- RF sensors for IoT
- 5G-Enable IoT technologies: architectures and protocols
- 5G Machine Type Communications (MTC) for distributed IoT
- Cognitive 5G networks
- 5G, AI, IoT, and smart systems convergence
- AI optimization of 5G-enabled smart systems

Track 4: Applied Smart Systems Applications

- Smart city and village
- Smart agriculture
- Smart grids and energy systems
- Smart city and village
- Smart agriculture
- Smart grids and energy systems
- AI and tropical forest management
- AI and new direction in education
- AI and environment systems monitoring
- Smart rural telemedicine and healthcare
- AI-enabled epidemiology (discovery, prediction, and spread patterns)
- Smart Systems (villages and cities)
- AI-enabled cybersecurity Systems

- AI-based Biomedical Signal Processing
- AI-Enabled computational Hieroglyphics
- AI-Enabled computational Egyptology

Track 5: African Classics (English and French)

- MAAT and AI ethics
- Computational linguistics and application in African languages
- Hieroglyphics translation to African languages
- Computational Egyptology
- AI and sacred Geometry
- Pre-history computing, numerology, and natural intelligence artifacts
- History of augmented intelligence in classics and modern Africa
- Deciphering ancient Egyptian computation with hieroglyphic numerals

Authors of accepted posters will have a space to display their posters, as well as to describe their work in discussions with interested attendees. A Best Poster Award will be given to a high-impact submission selected by an organizing committee, taking into account inputs from the conference participants. The abstract of the accepted posters will appear in the conference program. No registration fee is required for posters.

Where to submit the poster?

Posters should be submitted before the prescribed deadline to the Poster Chair, **Justice Owusu Agyemang** by email using: justiceowusuagyemang@gmail.com and Subject matter: **Poster contribution to Pan-African AI & SS 2021**