

**The 6th International Conference on Cloud Computing and Artificial Intelligence:
Technologies and Applications
November 21-23, 2023, in Marrakesh, Morocco.**

Special session: Edge and eXplainable Artificial Intelligence and Deep Learning (EXAI)

Call for Papers:

During last years, we noticed great progress in the domains and applications of artificial intelligence “AI” and more particularly deep neural networks, DNN, that are applied efficiently in different domains such as computer vision, video surveillance, natural language processing, industry 4.0, speech recognition, temporal series, robotics, etc. However, several limitations may prevent these applications to be deployed in real environments where the deployment, interpretability and explainability are highly required. The main drawbacks that are noted for the deployment of these applications are: 1) the high consumption of deep learning models in terms of computation time, memory size, storage and energy, this makes them less adapted for deployment in industrial sited and embedded hardware; 2) the low explainability and interpretability of deep learning models, where they are generally considered as black boxes, which complicates the process of models validation. In this workshop, we propose to investigate innovative solutions to related to these two major challenges in current AI: 1) embedded and edge artificial intelligence by the proposal of innovative solutions allowing to compress and optimize deep neural networks by maintaining their high precision. 2) explainable artificial intelligence that refers to a set of methods that allows human users to understand and therefore trust the results from AI algorithms. Explainable AI will be used to understand the potential biases of the developed models, to better characterize model accuracy and to identify for each decision taken, its explanatory factors, parameters, or inputs.

Thus, this workshop includes topics related (but not limited) to:

- Artificial intelligence ;
- Machine and Deep Learning;
- Cloud and edge computing ;
- Explainable artificial intelligence ;
- DNN compression ;
- DNN Pruning ;
- DNN quantization ;
- Knowledge distillation ;
- Multimodal learning ;
- Self-supervised learning ;
- Distributed Deep learning ;
- Computer vision and video surveillance ;
- Etc.

Paper submission

Submitted manuscripts are limited to 8 pages and have to be formatted according to the IEEE Proceedings template. Please follow the [IEEE Computer Society Press Proceedings Author Guidelines](#) to prepare your papers. At least one author of each accepted paper is required present the paper and attend the conference. Submissions should include paper title, abstract, names of authors, their affiliations, and emails addresses. The papers should be submitted in **PDF format** to the [CloudTech'23 easychair](#) online submission website.

Deadlines:

- Papers submission: **August 15th, 2023**
- Notification of Acceptance: **September 15th, 2023**

Papers Publication

All accepted and presented papers will be published in the conference proceedings and submitted for inclusion in **IEEE Xplore Digital Library** and will be indexing by **Scopus**.

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