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CALL FOR PAPERS
SPECIAL SESSION ON
Generative Artificial Intelligence in Medical Diagnosis: Challenges and Perspectives
for ICCAD'24
May 15-17, 2024, Paris-France

Session Co-Chairs:

- Prof. Nabiha Azizi, Labged Laboratory, Badji Mokhtar University of Annaba, Algeria, azizi@labged.net
- Dr. Samira Lagrini, Labged Laboratory ,Badji Mokhtar University of Annaba, Algeria
- Prof. Mohamed Tarek Khadir, Labged Laboratory, Badji Mokhtar University of Annaba, Algeria, khadir@labged.net
- Prof. Nadir Farah, Labged Laboratory, Badji Mokhtar University of Annaba, Algeria, farah@labged.net

Session description:

This special session focuses on the role of Generative Artificial Intelligence (GAI) in healthcare and medicine. GAI is a field of AI that focuses on creating models able to generate new and original content. Unlike traditional AI models, GAI models can learn from existing data rather than relying on predefined rules and patterns. Furthermore, these models can generate new outputs that mimic the training data characteristics.

GAI empowers healthcare professionals with enhanced diagnostic capabilities, especially personalized treatment plans, and improved patient outcomes. Leveraging the power of deep learning algorithms, GAI has revolutionized the analysis, interpretation, as well as use of medical images and textual data in clinical practice.

The goal is to explore the effectiveness and the Challenges of GAI in Healthcare, especially in Medical Diagnosis.

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

- GAI applications in medicine and healthcare;
- GAI in Medical imaging;
- Generative adversarial networks (GANs);
- Variational autoencoders (VAEs);
- Image Synthesis and Segmentation with Gans or Vans;
- Image Denoising and Enhancement;
- GAI models for Natural Language Processing…

SUBMISSION
Papers must be submitted electronically for peer review by **December 15, 2023**
https://www.iccad-conf.com/submission/

All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double-column format).