CALL FOR PAPERS
SPECIAL SESSION ON
Artificial Intelligence for Computer Vision Applications
for ICCAD'23
May 10-12, 2023, Rome-Italy

Session Co-Chairs:

- Pr. Aymen Mouelhi, University of Tunis, ENSIT, Tunisia, aymen.mouelhi@issatm.u-carthage.tn

Session description:

This special session in Artificial Intelligence (AI) for Computer Vision Applications will explore new directions integrating emerging and new techniques in AI to enhance performances of computer vision systems in several applications. In fact, computer vision systems are an integral part of advanced security, clinical decision support systems, manufacturing, and industrial processes. Computer vision are widely used in various fields, such as automotive navigation systems, intelligent surveillance systems, robot guidance, human-assistive systems, product classification, defect inspection, and so on. There are a number of challenges in computer vision systems, such as object segmenting, object recognition, object tracking, image enhancement, LIDAR data processing, 3D scene reconstruction, and so on.

Nowadays, AI-based computer vision systems have played a crucial role in many applications. It is expected that AI will be the main approach of the next generation of computer vision research. The explosive number of AI algorithms and increasing computational power of modern computers has significantly extended the number of potential applications for computer vision. This Special Issue solicits state-of-the-art research findings from both academia and industry, with a particular emphasis on novel approaches to ensure the impact of AI in computer vision research and its related applications. Prospective authors are invited to submit high for this Special Issue.

Topics of interest for this Special Issue include but are not limited to the following:

- ✓ Theoretical foundations of artificial intelligence and computer vision
- ✓ Object tracking, detection, segmentation, and recognition;
- ✓ Deep learning for computer vision;
- ✓ Big data analysis for computer vision;
- ✓ 3D scene reconstruction;
- ✓ RGB-D vision;

SUBMISSION

Papers must be submitted electronically for peer review by**: January 31, 2023**
Submission – ICCAD 2023 (iccad-conf.com)

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).