expat'23 Special Session

'Artificial Intelligence and Deep Learning Applied to Smart Environments (*AI Smart'23*)'

Today interconnected systems are everywhere, they provide diverse and challenging sources of data and their processing allow to boost smart and interacting environment capabilities. To this aim, Artificial Intelligence (AI) and Machine Learning (ML) play an important role in accomplishing this achievement. In the latest decade AI and ML have received great attention to solve difficult and complex problems in smart and interactive environments, and their advances brought impressive progresses in several fields such as medicine, e-health, healthcare, neuroscience, brain-computer interface, neurofeedback, robotics and automotive, biometrics, etc. In this context, the advanced learning techniques such as deep learning, reinforcement learning, deep reinforcement learning, multi-agent systems, statistical learning have shown their effectiveness to solve various problems of detection, classification, clustering, segmentation, control, diagnosis, optimization, etc.; and thus, becomes useful solutions to be investigated more for other open problems.

This Special Session will provide an opportunity for scientists, engineers and researchers to discuss new applications, design problems, ideas, solutions, research and development results, experiences and work-in-progress activities in this important technological area.

Prospective researchers are invited to submit their original research findings in AI, Deep and Machine Learning to this Special Session.

Topics of Interest:

- Remote Sensing and IoT
- Human-Robot Interaction
- Affective Computing
- Augmented and Virtual Reality
- AI in smart retail environments
- AI in ambient assisted living systems
- AI in smart factories and manufacturing
- Haptic Interfaces & Sensorial Devices
- Collaborative/Soft Robotic Systems
- Case studies, field trials, and industrial Applications

Chairs of the Program Committee of (SS abbreviation'23):

Susana M. Vieira, IDMEC, Instituto Superior Técnico, Universidade de Lisboa, Portugal, susana.vieira@tecnico.ulisboa.pt
Paulo Menezes, ISR-Coimbra, Faculdade de Ciências e Tecnologia, Universidade de Coimbra, Portugal
João M.C. Sousa, IDMEC, Instituto Superior Técnico, Universidade de Lisboa, Portugal

Program Committee (to be completed)

Miguel Martins, IST, ULisboa, PT
Bernardo Firme, IDMEC, LAETA, PT
João Santos, IST, ULisboa, PT

Important dates:

Submission Deadline	February 27, 2023
Notification of Acceptance	March 27, 2023
Camera-Ready Due	April 28, 2023
Early Author Registration	April 28, 2023
Conference Dates	June 05-07, 2023
Technical Activities	June 08, 2023

Language, Review Process, and Publications (following the main Conference)

English is the official language of the Conference.

The articles and extended abstracts (demos) will be under a double-blind peer review process.

Submission Articles (full papers with 4-6 pages) and extended abstracts (demos with 2 pages) submitted to expat'23 (according to IEEE Template) will follow Artificial Intelligence and Deep Learning Applied to Smart Environments the EasyChair platform.

Accepted and presented papers and demos will be published in electronic format and will be submitted for acceptance into the IEEE Xplore® paper database.

The conference will promote the organization of special issues in internationally indexed journals (e.g., Information, https://www.mdpi.com/journal/information) for extended versions of selected papers, with APC discount for publication in Open Access format.