



Call for Papers: 19th International Conference on Intelligent Environments Mauritius – 27th to 30th of June 2023

<http://ie2023.mdxmru.com/>

The 19th International Conference on Intelligent Environments (IE2023) is the major annual venue in the area and will be held in the beautiful Mauritius, next to Madagascar, from June 27th to June 30th. Mauritius is home to some of the world's rarest plants and animals. However, for those who cannot come to the beautiful Mauritius, IE2023 will also offer hybrid (online) participation options.

IE2023 offers an international forum and welcomes contributions from all over the planet. Intelligent Environments refer to physical spaces in which information and communication technologies, artificial intelligence, interfaces sensing and actuating technologies are woven in order to create interacting spaces. The ultimate objective of such environments is to enrich users' activities, while allowing users to manage them and be aware of each other's capabilities.

Conference Program: IE2023 is a multidisciplinary event welcoming contributions from a diversity of various relevant areas, including sensors and actuating, signal processing (incl. audio and images), networking, human-computer interaction, artificial intelligence, software engineering, context-awareness, internet of things, pervasive and ubiquitous computing, applied in domains such as healthcare, education, culture, and building environments etc.

IE2023 will include

- full (8-page) and short (4-page) papers;
- 4 special sessions
- 9 workshops
- 6 tutorials
- a doctoral colloquium;
- an industrial forum; and
- demos & videos session.

Moreover, IE2023 will host affiliated workshops.

Special Sessions. IE2023 will have 4 special sessions:

- Event Processing for Intelligent Environments
- Business Process Management and Smart Environments
- Behavior Recognition and Scene Reconstruction in Driving Environments
- The Role of Cognitive AI in Causing, and Managing, Disruption

Workshops. The conference will start with a series of 9 workshops:

- 3rd International Workshop on Self-Learning in Intelligent Environments (SeLIE 2023)
- 12th International Workshop on Intelligent Environments Supporting Healthcare and Well-being (WISHWell 2023)
- 12th International Workshop on the Reliability of Intelligent Environments (WoRIE 2023)
- 2nd International Workshop on Edge AI for Smart Agriculture (EAISA 2023)
- 3rd International Workshop on Artificial Intelligence and Machine Learning for Emerging Topics (ALLEGET 2023)
- 5th International Workshop on Legal Issues in Intelligent Environments (LIIE 2023)
- 2nd Workshop on Sentiment Analysis and Emotion Recognition for Social Robots (SENTIRobots)
- 1st International Workshop on Empathic Artificial Intelligence for Placemaking
- 1st Workshop on Ubicomp Environments and Social Robots Applications (UbiBot)

Tutorials. IE2023 will host 6 tutorials:

- Towards Fully Mobile Publish/Subscribe
- Graph Neural Networks and Applications in Intelligent Environments
- Toward Bridging Business Processes and IoT Big Data
- Video Object Tracking: a Deep Learning Perspective
- Resilient Predictive Analytics Services in IoT Smart City Environments
- Mastering data for enabling Smart Cities

Doctoral colloquium

The aim of the colloquium is to provide research students an opportunity to meet other people in a similar position, make relatively informal presentations, discuss and give/receive feedback on each other's experiences, ideas, and findings, and to make connections and to have fun! All accepted presentations will be submitted as short (4-page) papers and published in the IE2023 IEEE Proceedings. A prize will be awarded for the best colloquium paper.

Industrial Forum

In the Industrial Forum, colleagues from the industry domain will have the opportunity to showcase their projects while attracting funding or further expand collaborations with industry and academia at an international level. A limited number of presentation/demo slots of up to 30 minutes including question and answer will be available for industry partners. During these slots, it will be possible for companies to present products/solutions/projects related to the Intelligent Environment.

Publications (ISI-indexed)

- Papers accepted in the main conference as either short or full paper will be published by IEEE indexed proceedings.
- Papers accepted in workshops will be published as a volume of the IOS Press Ambient Intelligence and Smart Environments book Series of IOS Press as well as electronically through ACM Digital Library.

Both the articles in the IEEE proceedings and the IOS Press books will be ISI-indexed.

A selection of papers will be invited to extend and submit extended versions to special issues of the following journals:

- [Journal of Ambient Intelligence and Smart Environments](#), IF(JCR 2021)=2.759(Q3)
- [Open Computer Science \(OCS\)](#), IF=*pending*. OCS is a diamond open access journal, which offers 40% discount in publication costs for selected IE2023 authors.
- [IEEE Transactions on Learning Technologies](#), IF(JCR2021)=4.433(Q1)
- ...

Keynote Speakers. IE2023 includes keynote lectures by the following distinguished speakers:

- Jan Peters, Technische Universitaet Darmstadt, Germany (on-site)
- Anton Nijholt, University of Twente, The Netherlands (on-site)
- Behzad Dariush, Honda Research Institute, USA (online)
- Aki Härmä, Philips Research, The Netherlands (online)

Awards. The following 5 awards will be presented at IE2023:

- [Beatrice WORSLEY](#) award for the best full paper
- Best short paper award
- Best doctoral colloquium paper award
- Best Demos & Video award
- Best full paper presentation award by a
 - female presenter
 - male presenter
- Award for the most influential paper in the last 5 years

Important Dates

Conference paper submission:	1 December 2022
Communication of results:	20 February 2023
Camera ready versions :	30 March 2023
Workshops paper submission :	1 March 2023
Workshops results:	5 April 2023
Workshops camera ready :	15 April 2023
Workshops/Tutorials :	27-28 June 2023
Conference :	29-30 June 2023

Honorary Chair(s):

Priscilla Ramsamy (MDX-Mauritius)

General Chair(s):

Juan Carlos Augusto (Middlesex University London, UK)

Program Chair(s):

Egon L. van den Broek (Utrecht University, The Netherlands)

Ehsan Adeli (Stanford University, USA)

Local Organising Committee Chair(s):

Aditya Santokhee (Middlesex University, Mauritius)



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Topics of interest include but are not limited to:

Smart spaces, cities, and communities
Mobile computing
Multimodal interaction
Robotic companions
Artificial intelligence and Computational intelligence
Virtual/Mixed reality
Collaborative tools
Sensors and actuators
Industry 4.0
Smart buildings, education, and healthcare technology
Pervasive computing
Context awareness
Energy Efficiency
Ambient Assisted Living
Evaluation Paradigms