AISSAI Anomaly Detection Workshop

Clermont-Ferrand - France, 4-7 March 2024

FIRST ANNOUNCEMENT

The first [AISSAI Anomaly Detection Workshop](#) will be held from the 4th to the 7th March 2024 in Clermont-Ferrand, France.

This event is sponsored by the [CNRS AISSAI center](#) and hosted by the [LPC-Clermont](#).

Scientific program

This workshop will bring together scientists from a range of scientific fields including applied and theoretical computer science, statistics, particle physics and astrophysics, medical image analysis, accelerator physics, and others. The goal is to start a dialogue between different experts, fostering a collaborative environment where experiences, knowledge, and methodologies can be shared.

The workshop will explore topics related to, but not limited to:

- Novel machine learning algorithms for anomaly detection
- Statistical techniques for detecting rare events
- Anomaly detection for discovery of new phenomena in physics
- Unveiling anomalies in astrophysical observations
- Real-time anomaly detection in data streams and data acquisition
- Integration of domain knowledge with machine learning approaches
- Transverse applications including detectors, medicine, biology

Introductory presentations by leading experts of each topic will be followed by oral presentations and posters during the workshop.

Invited speakers

[Mazen ALAMIR](#) (CNRS – University of Grenoble Alpes (GIPSA-lab), France),
[Shikma BRESSLER](#) (Weizmann Institute of Science, Rehovot, Israel)

Gregor KASIECZKA (Universität Hamburg, Germany)
Mikael KUUSELA (Dep. Statistics and Data Science, Carnegie Mellon University, USA)
Carole LARTIZIEN (CNRS – Université de Lyon (CREATIS), France)
Konstantin MALANCHEV (LINCC Frameworks, Carnegie Mellon University, USA)

Participation in workshop

Participation in the workshop is open for all scientists and engineers working on different aspects of anomaly detection techniques - development and application. To ensure participation, please **register by February 5, 2024**. The registration is free but it will be limited to 75 on-site participants. The **deadline for the abstract submission is January 15, 2024.** The registration and abstract submission will be open on November 6, 2024. Both, oral and poster presentation, are expected to be given in person only. The workshop's working language is English.

Important dates

16 October – First announcement

6 November – Second announcement, open registration and abstract submission

15 January – Deadline for abstract submission

5 February – Deadline for registration

12 February – Third announcement, programme release

4-7 March – Workshop

Scientific organizing committee:

Emille Ishida (LPC, chair)

Vincent Barra (LIMOS)

Anja Butter (LPNHE)

Julien Donini (LPC)

Tommaso Dorigo (INFN)

Adnan Ghribi (GANIL)

Francois Lanusse (CEA)

Carole Lartizien (CREATIS)

Louis Lyons (Oxford)

Paula Sanchez (ESO)

Pietro Vischia (UniOvi and ICTEA)

Local organizing committee:

Samuel Calvet (LPC)

Alexandre Claude (LPC)

Julien Donini (LPC)

Cyril Galpier (LPC)

Marine Hebert (LPC)

Emille Ishida (LPC)

Maria Pruzhinskaya (LPC)