

1st Portuguese Workshop on Neuromorphic Vision

The first national meeting dedicated to event cameras and event-based vision

Thursday, 8 October 2026 · 10:00–13:00 WEST

ISCTE – Instituto Universitário de Lisboa

PhD in Information Science and Technology

Auditorium A302 · Building 4 – CVTT · Lisbon

Dear colleagues,

We are pleased to invite you to the **1st Portuguese Workshop on Neuromorphic Vision**, a half-day meeting for researchers, students and professionals working with event cameras and event-based vision. It is a forum to exchange results, discuss scientific and technological challenges, and strengthen ties between universities, research institutes, students and industry.

WHY EVENT CAMERAS?

Instead of capturing full frames at fixed intervals, event cameras **asynchronously record brightness changes as they occur**, opening new opportunities in robotics, autonomous systems, aerospace, industrial inspection, computational imaging and machine learning.

- **Microsecond resolution:** fast motion captured without blur.
- **Extremely low latency:** pixels respond as changes happen, not frame by frame.
- **High dynamic range:** reliable perception under extreme lighting contrasts.
- **Lower power and data rates:** only changes are recorded, giving sparse, efficient data streams.

KEYNOTE



10:00–11:00

Event-Based Sensing for Space-Based Applications

Dr. Scott McCloskey

Director of Computational Imaging, Kitware (USA)

IEEE Signal Processing Society Distinguished Industry Speaker

About the talk. Event streams are sparse, capture very high dynamic range and preserve fast changes without motion blur, which makes them ideal for space, where scenes are mostly static, lighting is extreme and relative orbital motion is high. The talk reviews event-based sensors and then explores two space applications: **star tracking** with an event sensor looking into deep space, and **vehicle re-identification** in remote sensing.

About the speaker. Dr. McCloskey leads the Computational Imaging group at Kitware and has headed large multi-organization research projects funded by agencies such as DARPA, IARPA and AFRL. He has held chair roles at WACV, CVPR and ICCV.

PROGRAM

10:00–11:00	Keynote Event-Based Sensing for Space-Based Applications · Scott McCloskey
11:00–11:30	Coffee Break
11:30–12:30	Event-Based Vision in Portugal — Ongoing Research Human Attention Mechanisms for Robotics: From Concepts to Applications · Alexandre Bernardino Structuring and Encoding Event Data · João Ascenso Event Data Coding for Machine Intelligence · Nuno Rodrigues Event-Based Video Reconstruction and Enhancement · Caroline Conti
12:30–13:00	Panel Discussion Event-Based Vision Research, Applications and Collaboration · Moderated by · Fernando Pereira

SPEAKERS AND PANEL MEMBERS

Scott McCloskey — Kitware (USA)
Alexandre Bernardino — Instituto de Sistemas e Robótica / Instituto Superior Técnico
João Ascenso — Instituto de Telecomunicações / Instituto Superior Técnico
Nuno Rodrigues — Instituto de Telecomunicações / Universidade de Leiria e Oeste
Caroline Conti — Instituto de Telecomunicações / ISCTE – Instituto Universitário de Lisboa
Fernando Pereira — Instituto de Telecomunicações / Instituto Superior Técnico

VENUE

ISCTE – Instituto Universitário de Lisboa
Auditorium A302 · Building 4 – CVTT (Knowledge and Innovation Building)
Avenida das Forças Armadas 40, 1649-026 Lisbon, Portugal

[View on map](#)

We look forward to welcoming you in Lisbon.
Please feel free to share this invitation with colleagues and students who may be interested.

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Organizing Committee

Nuno Rodrigues (IT / Universidade de Leiria e Oeste) · Fernando Pereira (IT / IST) · João Ascenso (IT / IST) · Caroline Conti (IT / ISCTE)