Call for Papers:

5th International Workshop on Camera Traps, AI, and Ecology

September 9-10, 2025 in Seattle, USA (hybrid)

https://camtrapai.github.io

As part of the International Workshop Series on Camera Traps, AI, and Ecology that focuses on AI analysis of camera trap data for wildlife monitoring, we are glad to announce our next workshop:

Where? at Allen AI Institute (Ai2) in **Seattle, USA** (as a hybrid event)
When? on **September 9 and 10, 2025.**

We invite you to submit **extended abstracts** (4 pages, double-column, excl. references) or **full papers** (6 pages, double-column, excl. references) related to AI image analysis of camera trap data for wildlife monitoring and conservation, covering one or more of the topics listed on page 2. We specifically **encourage to submit early findings** that might be extended for future submission to another venue after the workshop. Nevertheless, all **submitted papers must contain original research** that has not been published elsewhere before (except for preprint servers like arxiv) and which has not been submitted (simultaneously) to another workshop, conference, or journal being currently under review. The review process will be single-blind, and there will be at least two independent reviewers evaluating each paper. **Selected best papers** will be invited to submit an extended version of their paper to a Special Issue in the IET Computer Vision Journal.

Submit your paper via CMT: https://cmt3.research.microsoft.com/CamTrapAI2025

Important Dates

Paper submission deadline:	July 1, 2025 (23:59 AOE)
Notification of acceptance:	August 14, 2025
Camera-ready submission:	August 28, 2025 (23:59 AOE)
Workshop (hybrid):	September 9-10, 2025

Check our website for further information. In case of questions, just get in touch by email.

Best wishes on behalf of:

The local organization team

The workshop series organization team

Ted Schmitt and Jes Lefcourt
(*Allen Institute for AI, Seattle, USA*)

Paul Bodesheim
(*University of Jena, Germany*)

Otto Brookes and Tilo Burghardt
(*University of Bristol, UK*)

Scope of the workshop, topics and application domains

The scope of this workshop is to bring together people analyzing camera trap data with artificial intelligence (AI) support. We want to discuss current open challenges and the latest algorithmic solutions to related problems. Besides computer scientists working on new computer vision and machine learning methods, we also address ecologists using existing AI tools to tackle open problems and answer specific questions within their application domain. Hence, we encourage especially interdisciplinary teams working at the intersection of AI and ecology to submit the results of their recent work.

Paper submission is open for a **broad range of topics and application domains**, including but not limited to:

- Analyzing camera trap data or other related ecological vision datasets (images, image sequences, or videos)
- Camera traps in the wild or in controlled environments like a Zoo,
- Observations of birds and bugs, mammals and moths, spiders and snakes, etc.,
- Investigating images and videos from insect monitoring cameras (Lepidoptera, pollinators, anthropods, etc.),
- Maritime and freshwater applications by studying underwater imagery of fish and other aquatic animals,
- Animal detection and movement tracking of groups and individuals,
- Video recognition of animal behavior analysis,
- Identification of species, individuals, and morphological traits (in images or videos)
- Fine-grained visual categorization approaches and related recognition tasks at subordinate levels,
- Animal pose estimation in still images and video footage,
- Applying AI methods to camera trap data for answering ecological questions,
- New ecological questions or important open problems that can't be solved with current AI approaches.

We also invite papers showing **preliminary results** if the paper contribution is clearly outlined and inspects one of the following topics:

- A new AI method that shows promising results on camera trap or other ecology datasets.
- A new ecological question or an open problem that can barely be addressed with existing AI techniques and inspires the development of advanced algorithms.
- A new dataset with a description of the specific tasks and challenges, that require the development of new AI methods.