

Workshop on AI in Security and Defense (AI4SD)

Artificial Intelligence is increasingly recognized as a dual-use technology, where the same solutions are applied to both civil security and defense. However, its integration into these domains extends beyond the mere adoption of existing AI methodologies. Security and defense introduce distinct and complex requirements, particularly in areas such as ethics and cybersecurity, which necessitate tailored AI solutions.

This workshop aims to examine these evolving requirements and explore potential AI-driven approaches for security and defense. Key topics include AI use cases in security and defense, innovative methodologies for addressing sector-specific challenges, and both technical and non-technical obstacles associated with AI implementation in these contexts. Furthermore, the focus is on the techno-ethical dimension of AI deployment encompassing not only the ethical responsibilities inherent in the design and development of AI systems but also critical concerns regarding accountability in decision-making processes where AI supports or informs human judgments. These issues are especially pressing in scenarios where AI-driven decisions have significant societal or humanitarian implications.

Important Dates:

- Paper submission: Sunday, 13 July 2025, 23:59 AoE
- Notification of acceptance: Wednesday, 6 August 2025, 23:59 AoE
- Camera-Ready copy due: Monday, 6 October 2025, 23:59 AoE
- Workshop: Saturday 25 or Sunday 26 October 2025

Topics of the workshop include but are not limited to:

- Possible Applications, technical and nontechnical Challenges and Limitations of AI in Command & Control, Strategic and Operational Planning, Wargaming, Data Fusion, Situation analysis, Intelligence, Surveillance and Reconnaissance (ISR) ...
- Uncertainty in Security and Defense: Strategies for effectively managing the inherent uncertainty associated with data-driven AI methodologies in Security and Defense.
- Ethical Foundations of AI in Security and Defense: Exploring the core principles of AI ethics in dual-use technologies.
- Accountability and Responsibility in AI Systems: Developing frameworks for responsibility in AI-supported decision-making processes.
- Human Oversight and the Role of Ethics in Decision-Making: Examining human-in-the-loop, human-on-the-loop, and human-starting-the-loop paradigms for AI governance.

Submissions and Review Process:

We invite researchers to submit original contributions in the form of full papers (up to 8 pages), following the standard ECAI format. Papers previously submitted to other journals / conferences are also welcome. If the paper has already been rejected from a different conference a significant effort to address the criticisms should be made before submission. The review process will be single blind.

Proceedings: proceedings will be published in [OpenHSU](#). An opportunity to publish in this series is given, provided that the work has not been published before. Original accepted papers will be submitted for indexation.

Workshop URL: [Workshop AI4SD](#)

Conference URL: [ECAI 2025](#)

Submission: [EasyChair AI4SD](#)

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