

## 7th International Workshop on EXplainable, Trustworthy, and Responsible AI and Multi-Agent Systems (EXTRAAMAS 2025)



in conjunction with AAMAS 2025, Detroit, 19-20 May 2025

Since 2019, EXTRAAMAS has been a well-established workshop and forum on EXplainable and TRAnsparent AI and Multi-Agent Systems. It aims to discuss and disseminate research on explainable artificial intelligence, with a particular focus on intra/inter-agent explainability and cross-disciplinary perspectives. In its 7th edition, EXTRAAMAS identifies key focus areas with the ultimate goal of strengthening cutting-edge foundational and applied research. This, of course, comes in addition to the workshop's main theme, which focuses, as usual, on XAI fundamentals.

### EXTRAAMAS Tracks

- **Track 1: XAI in Symbolic and Subsymbolic AI**
  - XAI for machine learning, explainable neural networks, symbolic knowledge injection or extraction, neuro-symbolic computation, computational logic for XAI, multi-agent architectures for XAI, surrogate models, explainable planning (XAIP), XAI evaluation.
- **Track 2: XAI in Negotiation and Conflict Resolution**
  - Explainable conflict resolution techniques, explainable negotiation protocols, recommendation systems, trustworthy voting mechanisms, argumentation for explanations, explainable user/agent profiling, and applications in virtual coaches, robots, and IoT.
- **Track 3: Interactive Explainability and Dialogue**
  - Interactive capabilities for XAI, explanatory dialogues, context/user modeling, prompt engineering, research methodology for LLMs, and responsible LLM applications.
- **Track 4: XAI in Law and Ethics**
  - Fair AI, XAI & machine ethics, bias reduction, legal issues, liability, enforceability, transparency in AI systems, culture-aware systems.

### Important Dates and Submission Link

Important Dates	Submission Link
Paper submission: 01 March 2025 Notification of acceptance: 15 March 2025 Early registration deadline: TBA Workshop: 19-20 May 2025 Camera-ready papers (Springer post-proceedings): 20 June 2025	<a href="https://easychair.org/conferences/?conf=extraamas2025">https://easychair.org/conferences/?conf=extraamas2025</a>

## EXTRAAMAS Tracks

<p><b>T1: XAI in symbolic and subsymbolic AI</b></p> <ul style="list-style-type: none"> <li>• XAI for Machine learning</li> <li>• Explainable neural networks</li> <li>• Symbolic knowledge injection or extraction</li> <li>• Neuro-symbolic computation</li> <li>• Computational logic for XAI</li> <li>• Multi-agent architectures for XAI</li> <li>• Surrogate models for sub-symbolic predictors</li> <li>• Explainable planning (XAIP)</li> <li>• XAI evaluation</li> </ul>	<p><b>T3: Prompts, Interactive Explainability and Dialogue</b></p> <ul style="list-style-type: none"> <li>• Interactive capabilities for XAI</li> <li>• Arguments for persuasive explanations</li> <li>• Context modeling</li> <li>• User modeling</li> <li>• Initiative handling</li> <li>• Topic modelling</li> <li>• Grounding and acknowledgment</li> <li>• Prompt engineering</li> <li>• Research methodology for LLM applications</li> <li>• Responsible LLM applications</li> </ul>
<p><b>T2: XAI in negotiation and conflict resolution</b></p> <ul style="list-style-type: none"> <li>• Explainable conflict resolution techniques/frameworks</li> <li>• Explainable negotiation protocols and strategies</li> <li>• Explainable recommendation systems</li> <li>• Trustworthy voting mechanisms</li> <li>• Argumentation for explaining the process itself</li> <li>• Argumentation for explaining and supporting the potential outcomes</li> <li>• Explainable user/agent profiling (e.g., user's preferences/strategies)</li> <li>• User studies and assessment of the aforementioned approaches</li> <li>• Applications (virtual coaches, robots, IoT)</li> </ul>	<p><b>T4: (X)AI in Law and Ethics</b></p> <ul style="list-style-type: none"> <li>• XAI in AI &amp; Law</li> <li>• Fair AI</li> <li>• XAI &amp; Machine Ethics</li> <li>• Bias reduction</li> <li>• Deception and XAI</li> <li>• Persuasive technologies and XAI</li> <li>• Nudging and XAI</li> <li>• Legal issues of XAI</li> <li>• Liability and XAI</li> <li>• XAI, Transparency, and the Law</li> <li>• Enforceability and XAI</li> <li>• Culture-aware systems and XAI</li> </ul>

### Workshop Chairs

<p>Dr. Davide Calvaresi, HES-SO, Switzerland          research areas: <i>Real-Time Multi-Agent Systems, Explainable AI, BCT, eHealth</i>,          mail: <a href="mailto:davide.calvaresi@hevs.ch">davide.calvaresi@hevs.ch</a>, <a href="#">web page</a>, <a href="#">Google scholar</a></p>	<p>Dr. Amro Najjar, University of Luxembourg, Luxembourg          research areas: Multi-Agent Systems, Explainable AI, AI          mail: <a href="mailto:amro.najjar@uni.lu">amro.najjar@uni.lu</a>, <a href="#">Google Scholar</a></p>
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### Advisory Board

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## Organizing Committee Contact

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Visit the workshop website for more details: <https://extraamas.ehealth.hevs.ch/>