

Preface

RELAF 2026: Workshop on Reasoning with Evidence in Law Enforcement and Forensics

Singapore Management University, Singapore, June 8, 2026
co-located with the International Conference on Artificial Intelligence and Law (ICAAIL 2026)

1. About RELAF'26

This volume contains the proceedings of RELAF 2026, the Workshop on Reasoning with Evidence in Law Enforcement and Forensics, held on Monday, June 8, 2026 at the Singapore Management University campus, Singapore, co-located with the International Conference on Artificial Intelligence and Law (ICAAIL 2026). The workshop was organized in cooperation with the Korean Association for Artificial Intelligence and Law (KAAIL) and was held as a full-day hybrid event, with both in-person and remote participation.

RELAF 2026 explored the role of artificial intelligence in forensic analysis, digital evidence analysis, and evidential reasoning for judicial and law enforcement applications. The workshop provided a forum for researchers and practitioners from artificial intelligence and law, forensic science, argumentation theory, probabilistic reasoning, and natural language processing to exchange recent advances in models, methods, and practical applications for evidence-based reasoning. In addition to the research paper sessions, the program featured two hands-on demonstrations of AI-assisted forensic systems: Hansken Copilot, presented by Timo Meconi and Roos Scheffers, and DeepCase, presented by Ari Choi and Sungmi Park.

2. Topics of Interest

The Call for Papers invited contributions on topics including:

- AI legislation and its impact on law enforcement
- Formal models of reasoning with evidence (argumentation, Bayesian networks)
- Machine learning for forensics and legal information retrieval
- Natural language processing for law enforcement data
- Logical and probabilistic knowledge representation for forensics
- Legal and ethical issues in the use of AI for forensics and law enforcement
- Explainable and transparent AI for evidential decision-making
- Simulation and synthetic data generation for forensic and law enforcement evaluation

3. Review Process

RELAF 2026 received 16 submissions by May 2, 2026. Each submission underwent single-blind review by two members of the Program Committee. Based on these reviews, 12 papers were selected for presentation at the workshop, and the authors were notified on May 17, 2026.

All 12 papers were presented at the workshop. Following the event, their authors were invited to submit revised manuscripts by July 12, 2026. The editors evaluated the revised manuscripts and accepted 10 papers for inclusion in this volume.

4. Acknowledgments

We thank the authors for their contributions and the members of the Program Committee for their thoughtful reviews and constructive comments. We also thank the organizers of ICAAIL 2026 and Singapore Management University for hosting the workshop. We are grateful to the Korean Association for Artificial Intelligence and Law (KAAIL) for its cooperation in organizing the event, and to CEUR-WS.org for making these proceedings openly available.

5. Organizing Committee

Floris Bex Utrecht University, The Netherlands
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Hans Henseler Netherlands Forensic Institute and University of Applied Sciences Leiden, The Netherlands
Ro-Seop Park Hallym University, Republic of Korea

Supported by Jee Won Park (Hallym University), Roos Scheffers (Utrecht University), and Gwang-Jae Won (Hallym University).

6. Program Committee

(in alphabetical order)

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Floris Bex and Sungmi Park