The First International Conference On Reasoning And Decision-Making In Intelligent Systems

Porto, Portugal
June 7 - 11, 2026

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This event will be held in hybrid mode, with both on site and remote options.

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Submission:	March 18, 2026
Notification:	April 9, 2026
Registration:	April 21, 2026
Camera Ready:	April 28, 2026

Submission deadline: March 18, 2026

+ At a Glance

In an era where intelligent systems operate in increasingly dynamic and complex environments, the bridge from raw sensing to reliable decision-making is a defining challenge. Advances in sensor technology, data fusion, and AI-driven reasoning are converging to create pipelines capable of perceiving, understanding, and acting with precision and resilience. This conference focuses on the mechanisms and implementations that make such pipelines possible – from embedded hardware and signal processing to adaptive reasoning and safe decision execution.

Conference Chairs

Dr.
Steve Chan

Decision Engineering Analysis Laboratory, VTIRL, VT, USA

Prof. Ing.
Luigi Lavazza

Università dell'Insubria - Varese, Italy

Prof. Dr.
Ankush Ghosh

Chandigarh University, India

Prof. Dr.
Filip Ilievski

Vrije Universiteit Amsterdam, The Netherlands

Dr. habil. Assoc. Prof.
Bálint Molnár

Eötvös Loránd University, Hungary

If you want to get involved beyond submitting an article, please consider organizing a workshop, a thematic session, or a demo. Details are available on the Event Satellites page.

+ Call For Papers

In an era where intelligent systems operate in increasingly dynamic and complex environments, the bridge from raw sensing to reliable decision-making is a defining challenge. Advances in sensor technology, data fusion, and AI-driven reasoning are converging to create pipelines capable of perceiving, understanding, and acting with precision and resilience. This conference focuses on the mechanisms and implementations that make such pipelines possible — from embedded hardware and signal processing to adaptive reasoning and safe decision execution.

The scope spans both the diversity of sensing modalities and the sophistication of computational mechanisms that transform raw inputs into actionable intelligence. By integrating topics across hardware, software, and system-level considerations, the event addresses challenges such as low-power sensing, multimodal fusion, explainable recognition, adaptive decision-making, reasoning, and lifecycle validation. The goal is to provide participants with not only theoretical insights but also concrete tools and methods that can be implemented in operational environments.

Through a mix of technical sessions, demonstrations, and collaborative discussions, the conference serves as a forum for bridging the gap between cutting-edge research and deployment-ready solutions. It invites engineers, researchers, and practitioners to explore innovations that are robust, secure, and scalable — enabling intelligent systems that can sense, interpret, and decide with confidence in an ever-changing world.

Professionals from industry, government, and academia, researchers, engineers, practitioners, and students are invited to contribute. REASON welcomes 1) full papers presenting significant research, development, application, position, or survey, 2) short papers on work-in-progress, 3) posters, 4) contributed talk presentations, as well as workshops, thematic sessions, and demos.

Prospective authors are invited to submit original, unpublished works, which are not under review in any other conference or journal. Topics of interest include, but are not limited to, the following.

Topics

- **Reasoning and Decision-making in Agentic and (generative)AI-based Environments**
- **IoT and Real-time Decision-making Systems**
- **Context-aware Data Processing and Representation**
- **Pattern Discovery and Recognition in Intelligent Systems**
- **ML and Hybrid Advanced Reasoning Mechanisms**
- **Intelligent Approaches to Decision-making**
- **Complex Behavioral and Situational Reasoning**
- **Human-centered and Domain-specific Decision-making**
- **Security, Privacy, and Trust in Decision Processes**
- **Domain-specific Decisions in Intelligent Systems**
- **AI Mechanisms and Digitalization for Data, Patterns, and Reasoning**

- **Trends in Adaptive AI-based Decision Architectures**
- **Decisions for Edge, Fog, and Cloud integration**
- **Decision-making in Visual Machines, Robotics, and Mechatronics Environments**

Instructions for Authors

For more information on the submission process, please consult The Detailed Instructions for Authors.

To submit your work to this event:

Submit To This Event

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+ Submit an Article

Before submitting, please consult The Detailed Instructions for Authors.

To submit your work to this event:

Submit To This Event

+ Event Satellites

If you are interested in organizing a workshop, a thematic session, or a demo within the program of this conference, we are looking forward to hearing from you.

The details for what this entails are available at Event Satellites. The contact information on that page will serve as the starting point with someone ready to answer any questions you may have and to help set up the required logistics.

+ Camera Ready

Prepare the camera-ready following these guidelines:

- Ensure the paper is formatted according to the IEEE formatting template. See https://www.ieee.org/conferences/publishing/templates
- Consider all the comments from the reviewers that were sent with your acceptance notification email.
- Do NOT include page numbers or any copyright information.
- The length is 6 pages of text (including figures and references) in the standard IEEE two-column format above, with the possibility of 2 extra pages.

Upload your camera-ready to DTR Society Press here:

Camera Ready For REASON 2026

+ Registration

The registration site will be open at the same time as the notification date.

Details about the registration process are available on the Registration page.

Registration Site For REASON 2026

+ Publication

All accepted and registered papers (full papers and short/work in progress papers), regardless of presentation mode, will be published in the conference Proceedings under an ISBN reference and included in the Digital Library.

Proceedings: DRT Society Press

Library: DTR Society Digital Library

Accepted and registered Posters and Contributed Talks, regardless of presentation mode, will be posted on the conference webpage.

+ Presentation

All accepted and registered contributions are allotted a 25-minute presentation slot in the conference program.

We encourage all authors to attend the conference and present in person whenever possible. We recognize, however, that travel or other circumstances may prevent some presenters from attending the conference physically. Authors who are unable to present in person may request to deliver their presentation live via Zoom.

Please note that in-person sessions at the conference venue will not be streamed. Remote presenters will join their assigned session via Zoom, while attendees at the conference venue will participate in person.

Additional information and instructions for both in-person and Zoom presentations are available on the Presentations page.

+ Peer Review

Methodology

All submissions are peer reviewed by three or more reviewers, and evaluated based on relevance, technical content, originality, competence, significance, and presentation.

Reviewers are asked to offer constructive feedback to help the authors improve their work, regardless of whether the submission is accepted or rejected.

Reviewers are expected to adhere to our Conduct Policies.

Notification

Notification of acceptance or rejection will be issued by the evaluation system and sent to the contact author email address.

Rebuttal

Authors have a period for rebuttal of one week after notification. A rebuttal can be filed by contacting us along with the relevant data (conference name, submission number, and reason for rebuttal).

All rebuttals are answered, and the decisions are final.

+ Indexing

Most events are at the beginning of their series. Indexing is planned for the coming years, once the events mature and become solid in terms of number of contributions and content.

DTR Society aims to enhance the visibility of all its publications. The proceedings will be submitted to various indexes like Google Scholar, SCOPUS, DBLP, PubMed, HCIBib, EI-

Compendex, etc.

+ Conference Venue

The conference will take place at:

Hotel Novotel Porto Gaia

Rua Martir Sao Sebastiao, Afurada,
4400-499 Vila Nova de Gaia

Phone: +351 22 772 8700
Email: h1050@accor.com

A group registration form will be available.

Hotel website

For more information about the conference venue, please consult the Hotel Novotel Porto Gaia page we have put together.

+ Touristic Information

For places to visit around the conference location, please consult the Porto touristic information page.

+ Program

Location
Hotel Novotel Porto Gaia
Rua Martir Sao Sebastiao, Afurada, 4400-499 Vila Nova de Gaia

Time zone conversion: https://www.worldtimebuddy.com/
Sunrise and sunset times: https://meteogram.org/sun/portugal/porto/

Photos	**Photos from the event are available in this Google Drive Folder.**
Awards	**The following publications have been selected as outstanding, and have been awarded as such. In addition to this, the authors will receive an invitation to submit extended versions to an upcoming DTR Society journal.** **Reconnaissance to Ransom – A Kill Chain-Based Approach to Ransomware Analysis** Alexander Lawall, Petra Beenken, and Alexandra Blia **Noisy Networks, Nosy Neighbors: Simple Privacy Attacks Against Residential Wireless Traffic** Arne Roszeitis, Bartosz Burgiel, Victor Jüttner, and Erik Buchmann **A Multi-Criteria Evaluation of Cloud Security Posture Management Aligned with Users' Security Requirements** Lamia Alsakkaf, Ahmed Taha, and Jörn-Marc Schmidt **Prospective Overthinking Mitigation: Hyperheuristics to Facilitate System 1.5** Steve Chan **Narrative Contagion Under Competing Information Environment: An Epidemiological Modeling Analysis of Tariff Discourse on Twitter and Weibo** Nitin Agarwal **From Self-Perception to Demonstrated Competence: Designing a Skills-Based Assessment of Higher Education Teachers' Digital Competence** Sylke Vandercruysse and Bas Vanderbrugge **Ψ-Risk-DT: A Neurosymbolic Framework for Adaptive Zero-Day Threat Detection in Digital Twin Ecosystems** Roberto Pazzi, Davide Facheris, and Davide Tosi
Journal Invitations	**The following publications have been selected on the basis of the contents lendig itself for interesting extended work. The authors of these works will receive an invitation to submit extended versions to an upcoming DTR Society journal.** **Understanding the Resource Cost of Fully Homomorphic Encryption in Quantum Federated Learning** Lukas Böhm, Arjhun Swaminathan, Annika Hannemann, and Erik Buchmann **Ethigen – autonomous CVE analysis and PoC verification with contract-driven agents** Hugo Amaro, Sérgio Figueiredo, Pedro Conde, and Henrique Branquinho **ADRIAN InstructFace-Edit – Towards Robust Detection of AI-Manipulated Face Images** Viktoriia Vovchenko, Vincenzo Barberi, Sergej Schultenkämper, and Frederik S. Bäumer **Securing FIDO2 Credentials Using Intel SGX** Tomás Matos, Andre Zuquete, and Tomás Silva **Predictive Hybrid Resource Allocation in Wireless Sensing Systems for Value of Service Maximization** Biwei Li and Wanli Zhang

	Authentication Challenges in Generative AI Era Wesley dos Reis Bezerra, Lais Machado Bezerra, and Carlos Becker Westphall **Towards a Multi-Agentic Pipeline to Automate Model-to-Text Transformations for Domain-Specific Languages** Theodoros Tsampouris, Emmanouil Tsardoulias, Konstantinos Panayiotou, and Andreas L. Symeonidis
On Site Schedule	**The schedule of events in Porto is available. Please note that there will be updates.**
Tutorial Lectures	**T1: Barriers to AI Adoption in Education and How We Overcame Them: The MIKKO Case Study – On Site** Mykhailo Kalitkin, Co-Founder, CEO, UNOWA, Portugal • presentation • short bio
Keynote Speeches	**K1: Reliable Intrusion Detection of Zero-Day Attacks: A Two-Stage Architecture Combining Deep Learning and Conformal AI – On Site** Prof. Dr. Alexander Lawall, IU International University of Applied Sciences, Germany • presentation • short bio
	K2. From Biosignals to Clinical Decisions – What we Have Done, and What we Must do? – On Site Prof. Dr. Nuno Garcia, University of Lisbon, Portugal • presentation • short bio
	K3. Fighting Fire with Fire: Developing AI-enhanced Methodologies to Combat AI-enhanced Cognitive Threats – Virtual Prof. Dr. Nitin Agarwal, COSMOS Research Center, University of Arkansas at Little Rock; ICSI, University of California, Berkeley, USA • presentation • short bio
	K4. Rapid Innovation & Operationalization – Virtual Dr. Steve Chan, Decision Engineering Analysis Laboratory, USA • presentation • short bio
	K5. Using AI for threat modeling in the context of 6G and IPS – Virtual Prof. Dr. Wesley dos Reis Bezerra, Federal University of Santa Catarina, Brazil • presentation • short bio
	K6. AI-driven Digital Technologies for Crisis Management – On Site Prof. Dr. Ivan Ganchev, University of Limerick, Ireland & University of Plovdiv "Paisii Hilendarski", Bulgaria • presentation • short bio
	K7. TBD – Virtual Prof. Dr. Andreas L. Symeonidis, Aristotle University of Thessaloniki, Greece • presentation • short bio
Panels	**Panel #1 – Monday, June 8** **Theme:** Challenges and Costs on Robust and Cyber-protected Systems – On Site **Moderator:** Prof. Dr. Erik Buchmann, ScaDS.AI Dresden/Leipzig, Germany **Panelists:** Prof. Dr. Alexander Lawall, IU International University of Applied Sciences, Germany Viktoriia Vovchenko, Bielefeld University of Applied Sciences and Arts, Germany Prof. Dr techn. Jörn-Marc Schmidt, IU International University of Applied Science, Germany
	Panel #2 – Tuesday, June 9 **Theme:** Education and New Societal Trends – On Site **Moderator:** Prof. Dr techn. Jörn-Marc Schmidt, IU International University of Applied Science, Germany **Panelists:** Mykhailo Kalitkin, Co-Founder, CEO, UNOWA, Poland Student Tomás Matos, Universidade de Aveiro, Portugal Andrew White, CMO, UNOWA, Poland
	Panel #3 – Wednesday, June 10 **Theme:** Edge-Cloud Computing Continuum – On Site **Moderator:** Prof. Dr. Rossitza Goleva, New Bulgarian University – Sofia, Bulgaria **Panelists:** Prof. Dr. Nuno Garcia, University of Lisbon, Portugal Prof. Dr. Erik Buchmann, ScaDS.AI Dresden/Leipzig, Germany Prof. Dr. Ivan Ganchev, University of Limerick, Ireland & University of Plovdiv "Paisii Hilendarski", Bulgaria
Open Discussions	**Open Discussion #1 – Tuesday, June 9** **Theme:** Trends on Adopting AI and Digital Technologies – On Site **Coordinators:** Mykhailo Kalitkin, Co-Founder, CEO, UNOWA, Poland Andrew White, CMO, UNOWA, Poland
Publications	**All published articles (both presented on site or not) will be available in the DTR Society Library once the event concludes.**

+ Contact

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