



<https://www.dessert-conf.org/dessert-2026/>



16th International Conference
Dependable Systems, Services
and Technologies
DESSERT'2026,
Greece, Corfu,
October 2-4, 2026



2026 Theme:

Dependable, Human-Aligned and Cyber-Physical AI Systems for a Safe, Secure and Sustainable World

Organizers

IEEE Greece Section
National Aerospace University KhAI, Kharkiv, Ukraine
Hellenic Army Academy, Athens, Greece
Ionian University, Corfu, Greece
University of Thessaly, Lamia, Greece
Leeds Beckett University, UK
Lutsk National Technical University, Lutsk, Ukraine
IEEE Student Branch University of Thessaly – Lamia

Scope

The annual DESSERT conference began in 2006, and its primary focus has been on methodologies, techniques, and tools for dependability, security, and safety assessment, and assurance of software, hardware, computer systems, and IT infrastructures. A number of related DESSERT WSs addressed various issues in dependable critical computing. DESSERT'2026 is responding to current significant challenges relating to state-of-the-art information and communication technologies and paradigms, such as the Internet of Things, cloud and edge computing, AI and Big Data, and robotics systems, especially unmanned aerial, ground, and surface vehicles (UVs). Relevant areas of interest encompass regulations, analysis, modelling, development, verification, operation, and maintenance of computer systems, networks, and infrastructures for safety-, security-, mission- and business-critical applications.

DESSERT'2026 addresses the main theoretical, methodological, and technological challenges related to **Dependable, Human-Aligned and Cyber-Physical AI Systems for a Safe, Secure and Sustainable World**. Authors are invited to submit original manuscripts demonstrating recent advances in all areas relevant to these challenges, including, but not limited to:

Fundamentals and methodologies

- Methodology and technologies of dependable and resilient computing
- Methodologies and technologies of smart and pervasive computing
- Methodologies and technologies of sustainable and green computing and communications
- Infrastructure safety and security regulation, assessment and assurance
- Safety and Security co-design, verification and validation
- Safety, cybersecurity, and resilience of Industry 4.0 and 5.0
- AI/ML/LLM for design, safety, and security of intelligent systems
- Cryptography and information security
- Privacy and personal & information society data protection
- Big Data Analytics vs and for safety and security

Methods and technologies

- Dependable IoT for human and industry domains
- Trustworthy and explainable AI, AI as a Service, and resilient AI systems
- Methods and scenarios of AI-powered protection against AI-powered attacks
- Human-machine interaction and cooperation for safety and security
- Dependability, security, and resilience of web, cloud, and edge computing
- Big data and data mining techniques for business and critical domains
- Augmented, virtual, and mixed reality for secure industrial and human applications
- Blockchain technology for critical and business domains
- Formal methods and assurance case-based techniques of development and assessment
- Quantum computing and post-quantum cryptography
- Cryptography and steganography technologies
- Image processing and recognition for smart and dependable systems
- 5G/6G communications

Domains and applications

- Protecting critical infrastructures from cyberattacks
- Smart grid cybersecurity and resilience
- Reliability and safety of unmanned vehicles, UV swarms and fleets
- Intelligent UV swarms for monitoring critical objects and overcoming dangerous spaces
- Dependability of mission-critical, aviation and space systems
- Safety and cybersecurity of industrial robots and robotics systems as a Service
- Cybersecurity and privacy of health systems
- Biomedical engineering and informatics
- Ecology monitoring and decision-making support
- Dependable communication and high-reliable electronics
- UI cooperation, networking, education, and training for business and critical domains

The conference will include special events (workshops, tutorials, and industrial panels) and sessions dedicated to special topics.

Hot Topics for Discussion

- Dependable and Trustworthy Systems Foundation and Agentic Models.
- Trust, Governance and Regulation of AI-Enabled Critical Systems and Infrastructures.
- Human–AI synergy, Explainability and Decision Support in Security and Safety-Critical Domains.
- Secure, Safe and Resilient Cyber-Physical Systems with Embedded AI.
- Privacy-Preserving, Federated and Edge AI for IoT/IoE and Robotics.
- AI Driven Cyber Defense and Autonomous Threat Hunting.
- Using machine learning/LLMs/agents for real-time detection, hunting and response to attacks.
- Combining classic NIDS/SIEM with generative AI, behavioral analytics, etc.
- Adversarial Machine Learning and Secure AI Pipelines.
- Poisoning, evasion, inference, model stealing attacks and defenses.

- Secure/robust training pipelines, data provenance, model watermarking, red teaming of AI systems.
- Use of cryptographic/formal methods for integrity & confidentiality in AI lifecycle.
- Edge/IoT device protection with lightweight crypto, embedded AI, zero trust architectures.
- End to end security & observability with AI enhanced monitoring.

The Expected Benefit

DESSERT'2026 enables participants to engage in discussions with colleagues from diverse sectors, including academia, industry, IT, manufacturing companies, public and private research institutions, and organizations. With its truly international character, DESSERT'2025 fosters the development of relationships between countries from around the globe. The key DESSERT target is to create new values for humans, industry, state organizations, and businesses.

Submission Guidelines

The language of DESSERT'2026 Conference is English. Presentations in any other language are also not accepted. All submissions must comply with the IEEE format guidelines. Formatting instructions and template, as well as submission guidelines, are provided at <https://www.dessert-conf.org/dessert-2026/for-authors/>

Prospective authors are invited to submit a paper of a minimum of 5 and a maximum of 8 pages. Submissions must be made in .pdf or .doc/.docx format using the Microsoft CMT system. CMT submission link will be located on the website of DESSERT'2026. DESSERT'2026 participants must have a CMT account before attempting to submit their paper.

Here is a link to create the account:

<https://cmt3.research.microsoft.com/docs/help/general/account-creation.html>

Here is a link for authors on how to submit a paper:

<https://cmt3.research.microsoft.com/docs/help/author/author-submission-form.html> .

Please submit your paper to the applicable DESSERT'2026 Track.

Important Dates

Workshop proposal submission: April 6, 2026

Notification of Workshop proposal acceptance: April 13, 2026

Paper submission: May 11, 2026

Notification of paper acceptance: June 22, 2026

Final manuscript: June 29, 2026

Registration and payment: July 6, 2026

Program draft publication: July 20, 2026

Conference date: October 2-4, 2026

Publication and Indexing

Accepted papers presented at DESSERT'2026 will be published in Conference Proceedings, available in the IEEE Xplore and indexed by Scopus. Selected papers will be collected for publication in international journals indexed by Web of Science and Scopus, including:

- the International Journal "Radioelectronic and Computer Systems" (Scopus, Q2)

<http://nti.khai.edu/ojs/index.php/reks>

- Special Issue "Artificial Intelligence and Mobile Technologies for Sustainable Development of Smart Regions", the International Journal "Sustainability" (Scopus, Q1-Q2)

https://www.mdpi.com/journal/sustainability/special_issues/GS2572F29N.

A complete list of journals will be specified further.

Invitation to Sponsoring Program

Organisations interested in presenting their products are invited to participate in the Sponsor Program and the Technical Exhibition. The exhibition area assigned during DESSERT'2026 will be free of charge for sponsors only.

Venue and Host Institution

DESSERT 2026 will take place in Corfu (Kerkyra), Greece, the northernmost Ionian Island, located at a strategic intersection between Europe and the Mediterranean. Historically shaped by Venetian, French, and British administrations, Corfu functioned for centuries as a fortified gateway and defensive system against external threats. Its UNESCO-listed historic center—the only fully fortified city in Greece—reflects long-standing principles of resilience, reliability, and security-oriented urban design, closely aligned with the conference's focus on dependable and trustworthy systems.

The conference will be hosted by **the Ionian University** at the **historic Ionian Academy building, located in the heart of Corfu's old town**. Founded in 1824, the Ionian Academy was the first modern university-level institution in the Greek-speaking world, strongly influenced by the European Enlightenment and Western academic traditions. Today, the restored neoclassical building combines historical significance with modern conference facilities, providing an appropriate and inspiring environment for high-level scientific exchange in security, resilience, trust, and systems engineering.

Address: Academias & Kapodistriou str, Corfu 49100
<https://ionio.gr/en/university/>

DESSERT'2026 will be held in a mixed format – an online format will be accepted for authors from Ukraine only.

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