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**15th International Conference
Dependable Systems, Services
and Technologies
DESSERT'2025,
Greece, Athens,
December 19-21, 2025**



2025 Theme:

Trustworthy and Resilient AI Systems for a Safe and Secure World

Organizers

IEEE Greece Section
National Aerospace University KhAI, Kharkiv, Ukraine
Hellenic Army Academy, Athens, 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 Ws addressed various issues in dependable critical computing. DESSERT'2025 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'2025 addresses the main theoretical, methodological, and technological challenges related to **Dependable, Resilient, and Trustworthy Artificial Intelligence, Internet of Everything, VR/AR, and Big Data Analytics for a Safe and Secure 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.

The Expected Benefit

DESSERT'2025 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'2025 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-2025/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'2025. DESSERT'2025 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'2025 Track.

Important Dates

Workshop proposal submission: September 30, 2025

Notification of Workshop proposal acceptance: October 3, 2025

Paper submission: November 3, 2025

Notification of paper acceptance: November 21, 2025

Final manuscript: November 28, 2025

Registration and payment: November 30, 2025

Program draft publication: December 1, 2025

Conference date: December 19-21, 2025

Publication and Indexing

Accepted papers presented at DESSERT'2025 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'2025 will be free of charge for sponsors only.

The Venue

Athens is the capital and largest city of Greece, a world-renowned cultural and historical centre situated on the picturesque coast of the Aegean Sea. The heritage of the Classical Era remains evident in the city, represented by ancient monuments and works of art, most notably the Parthenon, considered a key landmark of early Western civilization. Athens is home to two UNESCO World Heritage Sites, the Acropolis of Athens and the medieval Daphni Monastery, as well as many other ancient shrines:

The Parthenon is a grandiose temple that has become the symbol of Athens and Greece.

Plaka, the "Neighbourhood of the Gods", – is the oldest and liveliest area of Athens.

Acropolis Museum – the construction of the New Acropolis Museum was inaugurated in 2009 and has become one of the most visited and most important museums in Athens.

The Ancient Agora was the social, political and commercial hub of the city during Ancient Greece.

The National Archaeological Museum is one of the most-visited museums in Greece and Europe.

Panathenaic Stadium was built in 144 AD. In the 19th century, it was dug up and restored. It hosted the first contemporary Olympics in 1896.

Temple of Poseidon – dedicated to Poseidon, the ancient Greek god of the sea – could not have been built in a better spot than Cape Sounion, overlooking the Aegean Sea and guarding the city of Athens from anyone heading to the main port of Piraeus.

Delphi was considered the centre of the world.

Lyceum – The Lyceum (Ancient Greek: Λύκειον, romanised: Lykeion) was a temple in Athens dedicated to Apollo Lyceus ("Apollo the wolf-god"). It was best known for the Peripatetic school of philosophy founded there by Aristotle in 334 BC. Aristotle fled Athens in 323 BC, and the university continued to function after his lifetime under a series of leaders until the Roman general Sulla destroyed it during his assault on Athens in 86 BC.

DESSERT'2025 is being held at Hellenic Armed Forces Officers Club (Saroglio Megaro), abandoned on the outskirts of the Aristotle Lyceum.

DESSERT'2025 will be held in a mixed format – an online format will be accepted for authors from Ukraine, or on special request after the General Chair's decision.

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