

CALL FOR PAPERS

Mark your calendars for **Eclipse SAAM** *on Data spaces 2024* on **October 22, 2024**. The conference will bring together industry experts and researchers working on innovative software and systems solutions for **data spaces**, specifically focusing on Security and Privacy, Artificial Intelligence and Machine Learning, Systems and Software Architecture, Modelling and related challenges. The event is co-located with **Open Community Experience 2024** (formerly EclipseCon). This will be a great opportunity to meet our dynamic open source community.

BACKGROUND

The importance of data as a valuable asset for companies, organisations, and public administrations has continuously increased over the past decade. According to the EU, it is reshaping how we produce, consume, and live. From real-time navigation to improved personalised medicine, precision farming, or the reduction of CO2 emissions, data serves as a fundamental ingredient for innovative products and services. Data sharing in real-world ecosystems has introduced new value opportunities for the entities that exchange data. Such ecosystems enable business entities to optimise their processes and products, to create new products and to set up new business models and opportunities. However, areas such as data exchange and monetization are still in their early stages of development.

In recent years, the concept of Data Spaces is continuously gaining interest on a global level and a series of developments and challenges regarding them have been highlighted. Data Spaces are anticipated to advance the state of the art in data exchange and monetization by providing a secure and trusted environment where organisations can share and access data. Data Spaces will foster collaboration and enhance the discoverability, accessibility, and reusability of data while ensuring interoperability. However, this endeavour presents various challenges, including privacy preservation, interoperability, trustworthiness, data value, governance and legal compliance, among others. In particular challenges are related both to data interoperability and ICT infrastructure interoperability. Moreover, alongside governance, concepts of data sovereignty and trust, have been key challenges related to data sharing.

A plethora of emerging architectures, concepts, technologies, methodologies, associations and initiatives are currently under investigation and development to establish these ecosystems based on common principles and standards. These include the development of data connectors, privacy preservation techniques, vocabularies, metadata catalogues and data sovereignty frameworks. Researchers and professionals engaged in these fields are encouraged to present their work to the community, comprising industry stakeholders, standardisation bodies, and open-source initiatives, at the **Eclipse SAAM on Data Spaces** conference scheduled for **October 22, 2024**.

IMPORTANT DATES



New Submission deadline



Acceptance Notification



Camera-Ready



Conference Date



TECHNICAL TOPICS

We encourage submissions that report on constructive, design-oriented research on innovative artefacts, such as software, models, and methods related to the conference theme. The conference is focused on, but not limited to the following topics of interest.

Data Space	Data Space	Al, and Machine Learning	Modelling
Security and Privacy	Architecture	in Data Space	for Data Space Systems
 Data Encryption Techniques Access Control and Authorization Data Anonymization and Pseudonymization Secure Data Transmission Data Masking and Obfuscation Data Governance and Compliance Privacy-Preserving Data techniques Data Privacy Impact Assessments (DPIA) Data Lifecycle Management Data Auditing and Monitoring Collaborative Data Space Security Sovereign Data Connectors and Applications 	 Data Space Architecture Fundamentals Data Modeling and Design Data Integration Architectures Real-time Data Processing Metadata Management and Data Spaces Brokers Big Data Architectures Data Security Architectures Data Sharing Architecture for Al and Machine Learning Cloud-edge Architecture for Data Spaces Connected and Federated Data Spaces Architectures Evaluation Framework for Data Spaces and Best Practices 	 Federated Learning, Split Learning & Transfer Learning for Connected Data Ecosystems Explainable AI (XAI) AI and Privacy, Ethics & Bias Machine Learning Ops (MLOps) AI for Data Governance Edge AI and Data Spaces AI Applications for Data Sharing Ecosystems 	 Conceptual Modelling Data Governance Models Vocabularies and Ontologies for Data Sharing Ecosystems Data and Infrastructure Interoperability Best Practices for Interoperable Data Exchange Data Quality Data Compliance

SUBMISSION GUIDELINES

You are invited to submit papers, outlining recent research or development activities (including work carried out in the context of funded research programs) in the broad area of data spaces. The topics should aim at fostering discussions with participants from the research community, industry and standardisation bodies and at exchanging ideas for future joint research activities. We welcome all submissions and do not require projects to be associated with the Eclipse Foundation or its projects.

The final date for submissions is May 12 May 26 June 7, 2024.

We encourage submissions of two types of papers: short papers (maximum of 4 pages) and full research papers (maximum of 10 pages) in accordance with the format recommendations and under the CC BY 4.0 licence. Submitted papers should be written in English by following the ACM proceedings Template.

All submissions will be single blind reviewed by members of the Technical Program Committee on the basis of technical quality, relevance to scope of the conference, originality, significance, and clarity.

Manuscripts must be submitted electronically through the <u>online submission system</u>. For any questions, please contact <u>research@eclipse.org</u>.



ACM will publish our conference proceedings, making our papers available in the prestigious **ACM Digital Library** and providing us with the opportunity to share our research with a wider audience.



Important note to authors about the new ACM open access publishing model

ACM has introduced a new open access publishing model for the International Conference Proceedings Series (ICPS). Authors based at institutions that are not yet part of the ACM Open program and do not qualify for a waiver will be required to pay an article processing charge (APC) to publish their ICPS article in the ACM Digital Library. To determine whether or not an APC will be applicable to your article, please follow the <u>detailed guidance</u>.

Further information may be found on the ACM website, as follows:

- Full details of the new ICPS publishing model: https://www.acm.org/publications/icps/faq
- Full details of the ACM Open program: https://www.acm.org/publications/openaccess

Please direct all questions about the new model to icps-info@acm.org .

TECHNICAL PROGRAM COMMITTEE

eSAAM 2024 welcomes nominations from the community, especially young faculty members and industry professionals with R&D experience.

- Alessandra Bagnato, Softeam Group
- Alessio Sacco, POLITO
- Ana Isabel Torre Bastida, Tecnalia
- Anastasios Zafeiropoulos, NTUA
- Apostolos Ampatzoglou, U. of Macedonia
- Athanasios Naskos, Atlantis Engineering
- Daniel Alonso, BDVA
- Davide Taibi, Tampere University
- Ella Peltonen, U. of Oulu
- Fulvio Risso, POLITO

- Fulya Horozal, ATB-Bremen
- Ilknur Chulani. IDSA
- Javier Serrano, UPM
- Joaquín Salvachúa, UPM
- Marcin Plociennik, PSNC
- Panagiotis Papadimitriou, U.of Macedonia
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CONFERENCE CO-CHAIRS

- Jordi Arjona Aroca from Instituto Tecnológico de Informática
- Panagiotis Papadimitriou from University of Macedonia
- Alexandros Nizamis from <u>Centre for Research & Technology</u>, <u>Hellas</u>
- Philippe Krief from Eclipse Foundation









PROGRAM COMMITTEE CHAIRS

- Liliana Beltrán Blanco from Instituto Tecnológico de Informática
- Panagiotis Papadimitriou from University of Macedonia
- Alexandros Nizamis from Centre for Research & Technology, Hellas
- Georgios Spanos from Centre for Research & Technology, Hellas
- Rosaria Rossini from Eclipse Foundation

CONTACT US

If you have questions about the conference or the CFP, please contact research@eclipse.org. Conference Website: https://eclipse.org/events/2024/oc4research