SDS2027

DATA. IMPACT. VALUE.

31 May 2027 – Conference Day

1 June 2027 – Workshop Day

The Circle Convention Center, Zurich

CALL FOR PAPERS

Call for Papers
Scientific Track

14th IEEE Swiss Conference on Data Science and AI

01 Scientific Track

We invite original research submissions from the broad field of data science and artificial intelligence (AI) focusing on novelty, best practice and use case orientation. Submissions are required to demonstrate both scientific-technical depth and practical applicability, and may encompass methods along the full pipeline of data science and AI systems – from data acquisition and data management, through data analysis using machine learning and AI, to visualization, human-machine interaction, data product design, value creation, and the management of societal effects.

02 Topics of Interest

Topics include but are not limited to the following key focus areas for 2027:

Foundation Models, Efficiency, Openness and Evolution

Multimodal and world models, small and specialized models, open-weight model ecosystems, neuro-symbolic and hybrid AI, new and alternative architectures, scaling limits, efficient training and inference, model compression and quantization, sovereign AI, and agentic and compound AI systems.

Human-AI Interaction, Work and Society

Design and evaluation of human-AI and human-agent teams, AI-supported decision-making, trust and reliance, delegation and human oversight, workplace adoption, productivity and skills, organizational transformation, societal impact, and unintended consequences of human-AI interaction.

IMPORTANT DATES

- **23 January 2027**
  Abstract registration deadline
- **1 February 2027**
  Paper submission deadline
- **26 February – 7 March 2027**
  Author response period
- **19 March 2027**
  Acceptance notification
- **31 May 2027**
  SDS2027 Conference

Proceedings IEEE Xplore
Review double-blind
Acceptance rate 2026

36%

AI in Practice, Application and Value Creation

Production deployments and rigorously evaluated case studies, scalability and adoption, productivity and return on investment, data-based and AI-supported services, lessons from successful and failed implementations, industrial time-series and sensor data, predictive maintenance, quality inspection, forecasting, and physical and embodied AI.

AI Governance and Reliable AI Systems

Implementation of AI regulation and compliance, certification and standards, privacy-preserving methods, model and system evaluation, hallucination and error detection, robustness and uncertainty, post-deployment monitoring, and the safety and security of autonomous and agentic systems.

Data Science and AI are dynamic fields. Therefore, we also welcome submissions that do not fit into any of the key focus areas.

03 Submission Guidelines

Please read the submission guidelines carefully and ensure that your paper complies with the requirements for double-blind review. Failure to meet the requirement will result in desk rejection.

Submit at: openreview.net/group?id=IEEE.org/SDS/2027/Conference

UP TO 8 PAGES

Full Paper

Max. 8 pages incl. references, IEEE 8.5" x 11" two-column format. Present high-quality research contributions, including experiments, analysis, or system papers, as well as descriptions of application results.

UP TO 4 PAGES

Short Paper

Max. 4 pages incl. references, IEEE 8.5" x 11" two-column format. Present late-breaking results, work in progress, follow-up extensions, application case studies, or evaluations of existing methods.

All submissions must be original works that have not been published previously in any conference proceedings, magazine, journal, or edited book. Concurrent submissions are strictly forbidden. SDS2027 maintains the confidentiality of submitted material. Upon acceptance, the titles, authorship, and abstracts of accepted papers will be released.

04 Review Process

- **Double-Blind Review:** Each submission will undergo a thorough review by the international Scientific Program Committee, with multiple experts evaluating the papers based on established scholarly criteria. To ensure impartiality, authors **must anonymize their submissions appropriately**. Submissions that fail to meet this requirement will be desk rejected.
- **Decision by an Expert Panel:** The international board of Program Co-Chairs will take the final decisions based on the external reviews. In special or borderline cases, the Program Co-Chairs will solicit additional meta-reviews and take brief author comments on the reviews into account to ensure fairness and consistency of the evaluation. Excellent content and presentation are mandatory for acceptance (acceptance rate 2026: 36%).
- **Commitment to Present:** Submission of a paper implies the commitment of at least one author to register and present the paper at the conference (in English, as poster or talk).
- **Publication:** Accepted papers will be submitted for possible inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements.

05 Policy on AI for Writing Assistance

AI tools may be used for language editing, translation, formatting, and other writing assistance without disclosure. If AI tools are used as part of the research itself (e.g. in research design, coding, data generation or processing, experimentation, analysis, or the creation of results) their use must be described to an extent that allows the research process to be understood and assessed. Authors remain fully responsible for the accuracy, originality, integrity, and appropriate attribution of all content in their submission. AI systems cannot be listed as authors.

Submit your paper via OpenReview

Abstract registration by 23 January 2027, full paper by 1 February 2027

Submit on OpenReview →





Main hall at SDS2026.