The 13th Annual International Workshop on Innovating the Network for Data-Intensive Science (INDIS 2026) in conjunction with SC26 (Supercomputing)

Chicago, Illinois, USA | November 2026

Website: https://scinet.supercomputing.org/community/indis/

The **Innovating the Network for Data-Intensive Science (INDIS) workshop** brings together network researchers and engineers to share findings, challenges, and potential solutions in distributed computing, information systems, and networking communities. With its inaugural appearance at SC14 in New Orleans, INDIS has become an academic forum for experts, researchers, and engineers in research and education (R&E) networking.

Data networks are the circulatory system for science, discovery, society, and industry. But scientific data networking is not a solved problem, and significant challenges remain. These challenges reflect scientists' persistent needs from data networks: the need for ever-increasing capacity, flexibility, consistency, and collaboration. The theme for the 13th INDIS workshop is "Connected Science: Bridging Research and Industry" — reflecting not only the role of networking in connecting scientific infrastructure, but also our community's collaborations across different types of organizations to advance data-intensive science. These collaborations include industry and government through public-private partnerships, and industry and academia through data sharing and technology development.

In this spirit, we invite researchers and engineers from across the HPC and networking communities to submit technical papers to the 13th Annual International Workshop on Innovating the Network for Data-Intensive Science (INDIS 2026). The workshop will be held in conjunction with the SC26: IEEE/ACM International Conference for High Performance Computing, Networking, Storage and Analysis (SC Conference Series), which will be held in Chicago, Illinois, November 15-20, 2026. This workshop encourages submissions that address one or more of the workshop topics, addressing networking research challenges and developments that are essential in information systems infrastructure for the scientific discovery process.

Topics of interest include (but are not limited to):

1. Network innovations: novel approaches, protocols, and algorithms to meet the current and emerging requirements for data-intensive applications.
2. High-performance network testbeds and simulations for parallel and distributed science experiments and workloads.
3. High-performance and large-scale network monitoring, control, and management services.

4. Software-defined networking (SDN) and Network Function Virtualization (NFV) in service of data science applications.
5. AI and machine learning algorithms for network telemetry, performance measurements, network and Input/Output (I/O) profile analytics, and high-touch solutions on network packets, flows, and hardware stats to identify patterns and troubleshooting issues.
6. Compute in-network (aka edge-middleware computing platforms) and offloaded infrastructure services on programmable hardware (e.g., FPGA).
7. High-performance data streaming and memory-to-memory transfer applications and techniques.
8. Wireless and Quantum networking and testbeds.
9. End-to-end quality of service (QoS) performance and Traffic Engineering (TE) applications.
10. Multi-domain networking, including hybrid clouds and multi-domain authorization.
11. Scientific data privacy, security, integrity, provenance, and sharing in multi-domain environments.

Important Dates:
- Paper Submission due: **July 25, 2026**
- Notification of acceptance: September 4, 2026
- Camera-ready version: September 25, 2026
- Workshop Date: November TBD, 2026

Submission Guidelines:
Papers will be published in the SC26 conference workshop proceedings upon approval. Workshop papers are expected to be 8 pages (excluding references) for full papers and 5 pages (excluding references) for short papers describing novel work in the topics of interest. Short papers that highlight early experimental testbed results and network integration breakthroughs are highly encouraged. Experiments from SCinet and the show floor are encouraged (e.g., Traveling FABRIC node). Submissions must use the IEEE conference proceeding template and be submitted via the SC Linklings system. (Please visit the workshop website for more information: https://scinet.supercomputing.org/community/indis/)

Student Track (New for 2026)
To increase the participation of students, a new track will be introduced at this edition of INDIS. For this track, extended abstracts are solicited where the first author is a student of any level. These submissions are expected to be 2 pages long (excluding references). Submissions should be novel work in the topics of interest of INDIS. Accepted papers in this track will get a lightning talk slot. The authors must be identified in the submission (i.e., reviewing is single-blind) and a confirmation from the first author's advisor (by email) is required. Papers submitted for the Student Track, might also be (extended and) submitted to the regular INDIS track.

Important dates for the Student Track:
- Submission deadline: **June 10, 2026**
- Author notification: July 10, 2026

The submissions for the Student Track should be done exclusively here:
https://forms.gle/2GUvGHkWhWQZw38K8

Organizing Committee:
* Nik Sultana: Illinois Institute of Technology, IL, USA
* Ezra Kissel: ESnet / Lawrence Berkeley National Laboratory, CA, USA
* Rafael Guimaraes: Instituto Federal de Educação, Ciência e Tecnologia do Espírito Santo (IFES), Brazil
* Fatema Bannat Wala: ESnet / Lawrence Berkeley National Laboratory, CA, USA
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