

Ensuring Scientific Quality and Integrity in the Age of AI



IFLA Section
Science and
Technology Libraries



Hosted at KISTI

Seoul, South Korea August 6th and 7th, 2026

ICSTI invites members and STI colleagues to the 2026 Annual Conference, *Ensuring Scientific Quality and Integrity in the Age of AI*. The two-day event will include a member General Assembly and a day of workshops co-hosted with the IFLA SciTech committee. This year's conference will explore the technical, legal, and governance frameworks needed to safeguard research quality, integrity, and equity as artificial intelligence becomes embedded in scientific information systems.

The event will feature two open workshops: "Analysis of Scientific Text: Strategies and Use Cases," with hands-on experience led by Wikimedia Korea, and "Trust, Integrity, and Governance for STI in the AI Era," addressing the strategic alignment on governance, accountability, and policies for trustworthy STI services.

If you have questions concerning this event or are interested in giving a presentation, please contact ICSTI's Executive Manager, Addie Cox (addie.cox@icsti.org).

ANNUAL CONFERENCE 2026

Ensuring Scientific Quality and Integrity in the Age of AI



PROGRAM

KISTI Annex Building, Seoul

August 6 and 7, 2026

The Annual Conference will be located at KISTI Annex Building (66 Hoegiro, Dongdaemun-gu) 3rd floor. Non-members are invited to join ICSTI for the two FREE workshop sessions on August 7. Members are invited to join both the workshops and the member-to-member session. The General Assembly Business Meeting is a closed meeting reserved for ICSTI member representatives and alternates.

GENERAL ASSEMBLY BUSINESS MEETING

Room 3/4

Thursday, 2:00 pm KST

ICSTI member representatives will be briefed on ICSTI business before voting on various ICSTI matters. Due to sensitive agenda items, only representatives and alternates of full Class A and B ICSTI members may attend.

MEMBER-TO- MEMBER SESSION

Room 3/4

Thursday, 4:00 pm KST

ICSTI members will share updates on recent and in-progress projects occurring at their respective organizations.

COFFEE SOCIAL

Room 3/4

Friday, 8:30 am KST

Attendees are invited to have coffee and tea prior to the morning session.

WORKSHOP 1

Room 3/4

Friday, 9:00 am KST

"Analysis of Scientific Text: Strategies and Use Cases"

Wikimedia Korea will host this session with a hands-on walkthrough of using Wikimedia tools. Please bring a laptop PC for this session.

WORKSHOP 2

Room 3/4

Friday, 1:00 pm KST

"Trust, Integrity, and Governance for STI in the AI Era"

Subject matter experts will give presentations on the session topic, followed by questions and discussion.

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Member to Member

KISTI Annex Building, Seoul

August 6, 2026

ICSTI's President, **Jan Brase**, will moderate the Member-to-Member session. Jan is Head of Research and Development at **SUB - Göttingen State and University Library**.



**Jing Xie, Jingyu Liu,
Yumeng Ma**

*National Science Library, Chinese
Academy of Sciences*



Bing Liang

*Institute of Scientific and Technical
Information of China*



**UC Curation Center
John Chodacki**

*University of California Curation Center
(UC3)*



To Be Announced

SUB Göttingen



Dr. Lee Tongjin

Japan Science and Technology Agency

PubReview: Practices for Promoting Research Integrity and Quality with AI Assistance

Traditional peer review, despite being central to research quality, faces issues like lack of transparency and difficulties in tracking review responsibilities, which can lead to academic misconduct. To address this, a new scholarly communication system is proposed, emphasizing a "preprint, open peer review, dissemination" model that encourages public review, data sharing, and AI tool application for improved transparency and integrity. This system, exemplified by platforms like PubReview, also claims to integrate open peer review with academic evaluation by establishing comprehensive metrics for papers, authors, reviewers, contributors, and journals.

Science and Technology Novelty Search Service in an Open Science Environment: Practice at ISTIC

Open science has made research papers, patents, and other scientific and technical information resources more open and accessible. At the same time, information growth and the wider use of AI tools have made novelty assessment more complex in research planning, project evaluation, research output assessment, and technology transfer. This presentation introduces ISTIC's science and technology novelty search service as a professional information service supporting research and innovation in China. It will outline the main workflow, including requirement analysis, search strategy design, multi-source retrieval, comparative analysis, expert review, and standardized reporting. It will also discuss how AI tools can support retrieval, summarization, clustering, and comparison, while emphasizing expert judgment, source verification, and evidence-based reporting to reduce risks such as misleading results and model hallucination. ISTIC hopes to exchange views with ICSTI members on trustworthy STI services in open science.

Plans, PIDs, and Research Outputs: UC3's Work Advancing Connected Research Infrastructure

The University of California Curation Center (UC3 - uc3.org) is working across the research lifecycle to make research information more connected, actionable, and trustworthy. This member update will highlight several current UC3 initiatives, including the DMP Tool rebuild and machine-actionable data management plans; UC3's ongoing role in the Research Organization Registry (ROR) and the broader persistent identifier ecosystem; work using automation and AI to improve metadata and connect datasets, software, publications, people, organizations, and plans; COMET's community-centered approach to persistent identifier metadata enrichment; and FAIR Station, a new effort to embed PIDs, data management, and policy checks into field station workflows. Together, these projects show how UC3 is approaching open, interoperable, and community-governed research infrastructure.

Title To Be Announced

JST's Information Services: Updates and Challenges

This presentation begins with a brief introduction to JST as an organization and an overview of its information services. It then introduces JST's ongoing efforts in the area of scientific and technical information dissemination and scholarly communication, including key infrastructures and initiatives that support the dissemination of research outputs in Japan. Building on this, the presentation looks at recent developments in a broad sense, such as updates to open science policies, changes in the strategic direction of a major information service, and the launch of new initiatives. It also shares some of the challenges we are facing in the AI era in the context of scholarly communication.

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Workshop 1

KISTI Annex Building, Seoul

August 7, 2026

This workshop session will be co-hosted by [Wikimedia Korea](#) and the [IFLA SciTech Committee](#).
[Click here to register for the virtual meeting](#). Meeting ID: 165 197 2690 Passcode: 159797



IFLA Section Science and Technology Libraries



WIKIMEDIA
K O R E A



Wikipedia Editing Workshop

Would you like to share your knowledge on Wikipedia, the free encyclopedia? Wikimedia Korea will be hosting a Wikipedia editing workshop at this year's ICSTI Conference. Come learn the basics of Wiki markup and pick up some handy editing tips.

Attendees should bring a laptop PC to the workshop and set up a Wikipedia account prior to the session.

Towards AI-Ready STI Data : Current Landscape and KISTI's Strategies

This presentation examines the legal frameworks surrounding AI data development in Korea, including the Copyright Act and the AI Basic Act, as well as government policies supporting AI advancement. It highlights KISTI's R&D activities for AI-ready data and outlines future tasks for expanding a trustworthy AI ecosystem.

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**Dr. Ayanda Lebele and
Julia Gelfand**

Botswana International University of
Science and Technology (BIUST)



Anders Karlsson
Elsevier



Prof. Liu Chuang
Chinese Academy of Sciences



Junseon You
Pluto Labs

**SPRINGER
NATURE**

Allie Song
Springer Nature

Governance and Infrastructure Reforms for African Institutions in the Age of AI: A Case Study of BIUST

Public universities in Botswana are navigating economic constraints, limited infrastructure, and uneven access to resources as they transition toward a knowledge-based economy. The Botswana International University of Science and Technology (BIUST) library serves as a case study, illustrating how digital initiatives, open access strategies, and emerging AI practices are being leveraged to address systemic gaps in governance, policy, and research access. This work advances a "resource-constrained digital infrastructure strategy" that positions academic libraries as key drivers of institutional transformation, collaboration, and equitable participation in global knowledge systems.

Trustworthy by Design: AI Governance and the Future of Research Integrity

Science is entering a paradox: the same AI that accelerates discovery and sharpens scientific writing also lowers the barrier to misbehavior at scale. Research misconduct is not new — but fake citations in the published literature have increased twelvefold in two years, a surge that coincides with the mass adoption of generative AI. The problem is not AI adoption. It is use without governance. The STI community faces a structural challenge: AI literacy is necessary but insufficient. What science requires is AI infrastructure — Research-Grade AI built on curated scholarly literature, transparent provenance, and independent accountability. Governance frameworks need to be equitable broadly, and actionable at institutional level in a fast-moving technology landscape. That is the standard the global publishing and library community must now define together.

Chain of Research Data Publishing and Repository

The *Digital Journal of Global Change Data Repository*, a peer review journal for publishing digital datasets, and the *Journal of Global Change Data and Discovery*, a peer review journal for publishing articles, data papers which are related to the datasets, were issued in 2020 and 2017 separately. Both were pre-issued in 2014. There are new challenges, including how to evaluate the impact of the published research data and how to calculate the data value through its value chain in the AI age.

Based on the practices at the Global Change Data Publishing and Repository, regular member of World Data System, the Comprehensive Impact Index for the Research Dataset was developed. Besides the normal IF within research articles, the elements related to socio-economic impacts were included. The Comprehensive Impact for individual dataset(s), author(s), grants) are also calculated.

Why Scientists Don't Use AI for Science

Each new generation of large language models has been heralded as a revolution for scientific research. Yet survey data shows researchers use generative AI mostly for grammar correction and translation — not for literature analysis, hypothesis generation, or research design. Google Scholar traffic grows alongside ChatGPT.

Drawing on the experience of building Scinapse AI, a multi-agent system for hypothesis generation, and a comparison of leading scientific AI tools, this talk argues the limits are structural: embedding-based retrieval flattens distinctions essential to specialized research, the public web is approaching training-data saturation, and the ground truth required for further progress lives largely outside the published record.

This reframes what the STI community is being asked to build. The talk closes with concrete questions for publishers, libraries, and infrastructure providers on content licensing, grey literature curation, and provenance standards for AI-generated science.

Research Integrity in Scholarly Publishing: Policies, Challenges, and Emerging Risks in the AI Era

This presentation provides an overview of research principles and practices in global scholarly publishing. It highlights the importance of transparency, accountability, and ethical standards in conducting and reporting research. Key requirements such as ethics approval, informed consent, data sharing, and responsible authorship are outlined. Common risks and forms of misconduct, including plagiarism, data falsification, paper mills, and predatory publishing, are examined. The presentation emphasizes the need for collective responsibility and vigilance to maintain trust and integrity in an evolving research landscape.