

# Call for Papers

2023 International Summit on the Study of Information

August 14 -18, 2023

Web for Submission: <https://easychair.org/conferences/?conf=issi2023>

Venue: To Be Determined

## SECTIONS

### **1. The International Summit for The Study of Information**

Information is a fundamental natural resource, essential for humans and all living beings. Further, since raw information can be processed into new complex products, like knowledge, strategy, intelligence, *etc.*, the significance of information is therefore even higher for human society. The study of information processes is thus a key issue for the information era.

The International Summit for The Study of Information (ISSI for short) is a biannual series of international conferences, dedicated to bringing experts worldwide together to exchange ideas, share progress, explore future trends in the Information Discipline, as well as facilitate collaborations between participants to meet new challenges. Each of the previous Summits attracted a large number of enthusiastic participants and achieved substantial success.

### **2. The Sponsor and Organizer of ISSI'2023**

The Summit is sponsored by the International Society for the Study of Information (IS4SI) representing scientists, professors, engineers, technologists, managers, experts and students all over the world in the fields related to the study of information.

The 2023 International Summit on the Study of Information (ISSI'2023) is organized by IS4SI's Chapter in Beijing, China and will be held Monday, August 14 – Friday, August 18, 2023 in Beijing. The Summit will consist of a series of academic fora, technical exhibits, and the organization of cooperative projects on-line, and/or off-line if allowed.

### **3. Call for Contributions**

All colleagues and friends interested in the study of information are welcome to submit to the Summit their abstracts of papers of not less than 2000 words. The abstracts

will be peer reviewed by the Program Committees of the Summit and preferred abstracts will be selected for oral presentation.

These abstracts will be published in the Proceedings of the Summit. The best presentations will be selected for publication as the Chapters in a book in a series published by World Scientific, or as articles published by well-known Journals.

#### **4. The Theme of the ISSI'2023 Summit**

Having noticed the fact that there have been greatly different demands in scientific view and methodology, which as an entirety is termed "paradigm", respectively from the study of information discipline and from the physical discipline, "Paradigm Change in the Information Discipline", has been selected as the theme of the ISSI'2023 Summit by the sponsor and organizer. A lecture explaining the theme will be scheduled at the opening session of the Summit.

All colleagues and friends are warmly welcome to join in the discussions on, and make contributions to, the conference theme via their paper(s).

#### **5. The Scope of the Summit**

The scope of information science and technology and their potential applications is extraordinarily broad. The scope of the 2023 Summit corresponding to it is thus designed and outlined as follows:

##### **5.1. Forum on Information Philosophy**

- (1) The concept, significance, and value of the informational turn in Contemporary Philosophy
- (2) The connection and difference between the informational turn of contemporary philosophy and other recent philosophical turns
- (3) The basic content and levels of the New Information Paradigm (NIP)
- (4) A comparative study of the NIP and a material paradigm
- (5) A comparative study on the relationship between information, knowledge, data, numbers, and intelligence
- (6) The unity of the NIP in the development of contemporary philosophy and science
- (7) A comparative study of the various fields of research paths in information philosophy around the world

- (8) Basic concepts and methods of theoretical research on complex information systems
- (9) Philosophical and technical foundations of information science and technology (virtual reality, human enhancement technology, nanotechnology, artificial intelligence, quantum information technology, 3D printing, meta-universe)
- (10) Research on philosophical issues in Information Science, information technology, information economy, information and the intelligent society
- (11) New interpretations of Information Thinking in culture and art

## **5.2 Forum on Information Science**

- (1) Foundations of Information Science
- (2) Theoretical Information Study
- (3) Intelligence Science
- (4) Mind Computation
- (5) Mechanism of Intelligence Creation
- (6) Embodied Intelligence
- (7) Brain Cognition
- (8) Mathematics for Intelligence
- (9) Logic and Intelligence
- (10) Neural Science
- (11) Artificial General Intelligence
- (12) Noetic Science and Cognitive Science

## **5.3 Forum on Information Technology (1)**

- (1) 5G and 6G Technology
- (2) AI-based Intelligent Networking Systems
- (3) High Performance Computing
- (4) Numerical Methods for Scientific Computing
- (5) Re-configurable Computing

- (6) Quantum Computing
- (7) Intelligent Computing
- (8) Internet of Things
- (9) Semantic Web and Web 3
- (10) Big Data, Security, Privacy, and Block Chain

### **5.3 Forum on Information Technology (2)**

- (1) IT for the Human Body
- (2) Affective Computing
- (3) Deep Learning and Reinforcement Learning
- (4) Pattern Recognition and Knowledge Graphs
- (5) Natural Language Processing and Understanding
- (6) Intelligent Robots and their Applications
- (7) Brain-Computer Interface
- (8) Autonomous Driving
- (9) Virtual Reality and Augmented Reality
- (10) The Meta-Verse and Future Computing

### **5.4 Forum on the Information Economy**

- (1) Information Economy Theory (Including objective, content, nature, method, function, history, and other basic problems of the information economy)
- (2) Information Management (Including Accounting and Financial Information Systems, IT management, Knowledge Management, Commercial Management *etc.*)
- (3) Digital Industrialization (Including 5G, Integrated circuit, Software, Artificial intelligence, Big Data, Cloud computing, Block chain, *etc.*)
- (4) Industry digitization (Including Industrial internet, Intelligent manufacturing, Vehicle networking, Platform economy, *etc.*)
- (5) Data value (including Data collection, Data standards, Data pricing, Data

transactions, Data protection, *etc.*)

(6) Digital governance (including Digital Government, Smart Cities, *etc.*)

(7) The Interrelationship between the Digital Economy, Information Economy, and Knowledge Economy

### **5.5 Forum on the Information Society**

- (1) The Information Society
- (2) Intelligent Social Governance
- (3) Education in the Information Society
- (4) Medicine in the Information Society
- (5) Human Nature in the Information Society
- (6) Human-Robot Relationships
- (7) Digital Culture
- (8) Digital Sports

To be added and Revised

### **IMPORTANT DATES.**

Deadline for Abstract submission: April 30, 2023

Notification of abstract acceptance: by May 15, 2023

Deadline for Extended abstract submission: June 15, 2023

Author registration: by July 15, 2023

Summit: August 14 – 18, 2023

### **TENTATIVE TIME-TABLE FOR 2023 IS4SI SUMMIT**

	<b>Morning Sessions</b>	<b>Afternoon Sessions</b>
<b>Monday</b>	Plenary Lecture / Technical Exhibits	Information Philosophy
<b>Tuesday</b>	Information Science	Information Technology (1)

<b>Wednesday</b>	Information Technology (2)	Information Economy
<b>Thursday</b>	Information Society	General Assembly / IASI Inauguration
<b>Friday</b>	Exhibits; Negotiation for Cooperation	Closing Session - Art Shows

Note: each session may have one session or more parallel sub-sessions depending on the number of presentations confirmed.

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To be added

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