2026 International Conference on Blockchain and Trustworthy Agentic AI for Web 3.0 Economy (ICOW3 2026)

Theme: Building a Trusted AI Agent Economy with Blockchain

November 26, 2026, Seoul, South Korea

Conference Website: http://icow3-2026.ksblockchain.org/

1. Introduction

Following ICOW3 2025, which explored real-world applications of Agentic AI for Web 3.0, ICOW3 2026 advances this international forum with a focus on blockchain and trustworthy agentic AI. Under the theme "Building a Trusted AI Agent Economy with Blockchain," the conference examines how blockchain infrastructure and accountable agent behavior can support autonomous transactions, collaboration, and value exchange. The emphasis is on technical foundations that enable AI agents to operate reliably within verifiable permissions and clearly defined responsibilities.

Building a trusted AI agent economy requires mechanisms for authenticating agent identities, enforcing delegated authority, and verifying transaction outcomes while protecting data and digital assets. ICOW3 2026 addresses decentralized identity, digital wallets, smart contract-based transactions and settlement, data marketplaces, and token incentives. Particular attention is given to architectures connecting off-chain agent reasoning and tool invocation with on-chain authorization, contract execution, and auditable records. The conference also explores data sovereignty, governance, security, and privacy, including threat modeling and detection based on adversarial tactics, techniques, and procedures (TTPs). These topics support the evaluation of agent behavior and the design of safeguards against unauthorized actions and malicious interactions.

ICOW3 2026 brings together researchers and practitioners from academia and industry worldwide to share research findings and implementation experience in blockchain and trustworthy agentic AI for Web 3.0. We invite papers on theoretical foundations, system design, experimental evaluation, and industrial applications that advance interoperability, scalability, security, and accountability in the AI agent economy. Accepted papers will be presented in SESSION 3 and SESSION 4.

2. Submission Guidelines

Full Paper: 8–10 pages for academic papers

Short Paper: 2–3 pages for industrial papers

Submit through EasyChair: https://easychair.org/cfp/ICOW3_2026

Paper Review Fee: Please pay the review fee using one of the links below (also available on EasyChair).

- PayPal Payment: https://www.paypal.com/ncp/payment/UAUUXPV4S7RD8
- OnOffMix Payment: https://www.onoffmix.com/event/349963

3. Important Dates

~~October 21, 2026~~ (**November 4, 2026**): Manuscript submissions due at 10 p.m. KST (Seoul)

~~October 30, 2026~~ (**November 12, 2026**): Reviews due

~~November 2, 2026~~ (**November 16, 2026**): Notification to authors

~~November 6, 2026~~ (**November 20, 2026**), 2026: Camera-ready submissions due at 10 a.m. KST (Seoul)

November 13, 2026: Early registration deadline

November 26, 2026: Conference begins at 10 a.m. KST (Seoul)

4. List of Topics

The conference will focus on the following topics (but is not limited to):

- Web 3.0 use cases and applications in various domains
- Identification and authentication technology for Web 3.0
- Data privacy and security issues of digital wallet
- Blockchain infrastructure technology for web 3.0 especially extendibility
- Web 3.0 applications with Artificial Intelligence
- Real world Agentic AI leverages advanced technologies such as large language models (LLMs), deep reinforcement learning (DRL), and generative AI (GenAI)
- AI (e.g., machine/deep learning) experiments for web 3.0
- Digital wallet for Internet of Things (IoT) and Cyber-physical Systems (CPS)
- Web 3.0 data market place technology
- Data and resource curation technology for web 3.0
- Metaverse application technology for Web 3.0
- Economy ecosystem for Web 3.0 metaverse
- AI based carefree Identification and authentication technology
- Digital Wallet security for Web 3.0 applications
- SBT (Soul Bound Token) and NFT (Non-Fungible Token) applications in Web 3.0
- Digital asset issues in Web 3.0
- Token economy for Web 3.0
- Security and Privacy issues in Web 3.0 and applications
- Information Democratization
- TTP-based threat modeling and attack-path analysis in interconnected blockchain and AI agent environments

- TTP-based threat detection and evaluation of security response effectiveness using on-chain and off-chain blockchain behavioral data

5. Publication

Best papers from the conference will be fast tracked for publication in a special issue of the Journal of Web Engineering, indexed in SCIE and SCOPUS:

https://journals.riverpublishers.com/index.php/JWE

6. Venue

The conference will be held in COEX Hall located in Seoul, South Korea. For more information about the venue and the hotel accommodation visit

http://icow3.ksblockchain.org/hotel-travel/hotel-information/

7. Contact

For paper submission inquiries, please contact Prof. Dohoon Kim (Kyonggi University), Program Chair.

Email: karmy01@kyonggi.ac.kr

8. Sponsors

Korea Society of Blockchain

9. Conference Organizers

General Chair: Prof. Young B. Park (Dankook University) and Prof. Vijayan Sugumaran (Oakland University)

Organizing Chair: Prof. Yunhee Kang (Baekseok University)

Local Arrangements Chair: Prof. Sooyong Park (Sogang University)

Program Chair: Prof. Dohoon Kim (Kyonggi University)

Program Co-Chair: Prof. Kalok Man (Xi'an Jiaotong-Liverpool Univ.)

Publication Chair: Minyang Cho (Dong-Seoul Univ.)