ICBTA
Blockchain Technology

Special Session 4:

Emerging Media Security, Quality, and Blockchain Technologies (EMSQ-B)

Call For Papers

SEOUL, SOUTH KOREA
December 11-13, 2026

Topics

1. Protecting Media Value & Provenance (Security & Integrity):
   - Blockchain-based media copyright management, licensing, and NFT systems
   - Digital watermarking, steganography, steganalysis, and perceptual hashing
   - Image/video forensics, deepfake detection, and tamper verification
   - Privacy-preserving media processing, secret sharing, and secure multi-party computation
2. Enhancing & Creating Media Value (Processing & Generative Media):
   - 3D image acquisition, computer-generated holography (CGH), point clouds, and immersive displays
   - Generative AI, image/video restoration, super-resolution, and style transfer
3. Measuring Media Value (Perceptual & Media Quality):
   - Subjective and objective image/video quality assessment (IQA/VQA)
   - Human visual perception, visual fatigue, cognitive metrics, and psychophysics
   - Quality of Service (QoS) and Quality of Experience (QoE) in decentralized media streaming
   - Robustness and quality trade-offs in watermarked/encrypted visual content
   - Benchmarking, datasets, and performance evaluation metrics for secure media

More Topics: https://icbta.net/ss4.html

Introduction

The rapid advancements in generative AI, 3D computer graphics, and high-resolution imaging have fundamentally transformed the creation, distribution, and consumption of visual media. However, these breakthroughs also introduce critical challenges concerning content authenticity, copyright infringement, privacy leakage, and perceptual quality degradation across digital ecosystems. This special session, titled "Emerging Media Security, Quality, and Blockchain Technologies (EMSQ-B)," aims to bridge cutting-edge research across image media quality assessment, enriched multimedia security, and blockchain technologies. By integrating advanced media processing techniques with decentralized, tamper-proof architectures, the session explores novel frameworks for trustworthy media provenance, intellectual property management, tamper detection, and privacy-preserving data sharing. Furthermore, it addresses subjective and objective quality evaluation metrics for encrypted or watermarked media, 3D/immersive rendering, and digital archiving in domains such as cultural heritage and medical imaging. By fostering interdisciplinary dialogue among researchers, engineers, and practitioners, this session seeks to establish secure, high-quality, and trustworthy media infrastructures for Web3 and future digital ecosystems.

Important Dates

Submission Deadline
November 15, 2026

Notification Date
November 25, 2026

Camera Ready Submission
November 30, 2026

Registration Deadline
November 30, 2026

Publication



Dr. Norifumi Kawabata

Assistant Professor – Kanazawa University, Japan

Publication

All accepted and presented papers will be included into ICBTA 2026 Conference Proceedings and published as a volume of Lecture Notes in Networks and Systems by Springer. This book series is abstracted and indexed by EI Compendex, SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH, SCImago. All books published in the series are submitted for consideration in Web of Science.

Springer

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Submission Link

Enter the submission system and select Special Session 4

1. **Abstract/ Presentation**: Abstract submission required; oral presentation only; will not be published.
2. **Full Paper/Publication**: Full paper submission required; presentation required; will be published.
3. Details: https://icbta.net/sub.html

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