

Title:

International Workshop on AI-empowered Digital Health and Well-being Promotion (AI-DHWP)

Brief description:

With the spread of information technology in healthcare, there is growing interest in using AI to support health management and well-being in daily life. As more data become available from wearables, sensors, and online platforms, new possibilities emerge for understanding health conditions, human behaviors, and predicting health risks. This workshop focuses on AI-empowered and human-centered approaches that apply to healthcare. By fostering interdisciplinary collaboration, it aims to promote digital health technologies that provide opportunities to support healthcare. We hope to bring together researchers to explore how AI can contribute to better health and well-being.

Topics of interest include, but are not limited to:

- Big Data Analytics in Health
- Causal Discovery and Inference in Health
- Multimodal Data Fusion in Health
- Health Analysis with Wearable Sensor & IoT Data
- Health Analysis with Social Media Data
- Biometric Analysis (gait, eye-tracking, falls, etc.)
- AI for Human Behavior Modeling
- AI for Aging and Gerontechnology
- AI for Mental Health Support
- AI Agents for Healthcare
- Explainable AI for Healthcare
- Machine Learning and Deep Learning for Healthcare
- Data-Driven Smart Health Applications
- Human-AI Interaction for Health and Well-being
- Metaverse and Digital Twin for Health and Well-being

- Blockchain and Federated Learning for Health and Well-being
- Privacy Protection Concern in Digital Health
- Ethics, Security, and Fairness in Digital Health

Brief description of the review process:

All submitted papers will be peer-reviewed by two or three experts in the field based on originality, relevance, clarity, and technical quality. The review process will follow a single-blind format, and accepted papers will be selected based on reviewers' feedback and overall contribution to the workshop themes. We expect to accept approximately 6 to 8 papers that promote active discussion.

Brief plans for dissemination:

We plan to promote the workshop through academic networks and social media channels. We expect approximately 20 to 30 participants, including researchers, practitioners, and graduate students from fields related to AI, healthcare, and human-computer interaction.

Names and contact information of the organizers:

Yegang Du,

Tohoku University, Japan

yegang.du.b8@tohoku.ac.jp

Ruichen Cong,

Waseda University, Japan

rcong@aoni.waseda.jp

The 1st International Workshop on AI-empowered Digital Health and Well-being Promotion (AI-DHWP)

October 21-24, 2025, Hakodate City, Hokkaido, Japan

With the spread of information technology in healthcare, there is growing interest in using AI to support health management and well-being in daily life. As more data become available from wearables, sensors, and online platforms, new possibilities emerge for understanding health conditions, human behaviors, and predicting health risks.

This workshop focuses on AI-empowered and human-centered approaches that apply to healthcare. It aims to promote digital health technologies that provide opportunities to support healthcare. We hope to bring together researchers to explore how AI can contribute to better health and well-being.

Topics of interest include, but are not limited to:

- Big Data Analytics in Health
- Causal Discovery and Inference in Health
- Multimodal Data Fusion in Health
- Health Analysis with Wearable Sensor & IoT Data
- Health Analysis with Social Media Data
- Biometric Analysis (gait, eye-tracking, falls, etc.)
- AI for Human Behavior Modeling
- AI for Aging and Gerontechnology
- AI for Mental Health Support
- AI Agents for Healthcare
- Explainable AI for Healthcare
- Machine Learning and Deep Learning for Healthcare
- Data-Driven Smart Health Applications
- Human-AI Interaction for Health and Well-being
- Metaverse and Digital Twin for Health and Well-being
- Blockchain and Federated Learning for Health and Well-being
- Privacy Protection Concern in Digital Health
- Ethics, Security, and Fairness in Digital Health

Submission and Publication

The submitted papers should be **4-6 pages** long including figures and references and prepared in IEEE CS Proceedings format.

We also welcome **Position Statement Papers (2-4 pages)**, which present novel ideas, hypotheses, and emerging research directions in AI for health.

All accepted papers will be published in an IEEE Computer Society proceedings (IEEE-DL and EI indexed).

Important Dates

- Paper Submission Due: **2025-06-27**
- Author Notification: **2025-08-11**
- Camera-ready Submission Due: **2025-09-12**

All submitted papers will be peer-reviewed by two or three experts in the field based on originality, relevance, clarity, and technical quality.

Please follow the guideline in IEEE CyberSciTech 2025 Site to submit your work via EDAS (<https://edas.info/xxxx>).

General Chair

Yegang Du,
Tohoku University, Japan
yegang.du.b8@tohoku.ac.jp

Program Chair

Ruichen Cong,
Waseda University, Japan
rcong@aoni.waseda.jp

Sponsors Logos (Tentative)