Workshop Proposal for IEEE CyberSciTech 2025

Title

International Workshop on Human-Centered AI and Digital Coaching (HAIDC)

Technical Description

The International Workshop on Human-Centered AI and Digital Coaching (HAIDC) focuses on the vital convergence of human-centered artificial intelligence and digital coaching technologies to address the complex needs of aging populations worldwide. As demographic shifts accelerate globally, AI-driven digital coaching systems represent a promising technological intervention for supporting older adults' health, independence, and quality of life. However, current implementations face significant challenges in balancing automation with human support, adapting to diverse cultural contexts, and ensuring ethical deployment. This workshop will examine cutting-edge research on culturally responsive digital coaching systems, human-AI collaboration frameworks, and cross-cultural design methodologies that support technology development for aging populations across diverse cultural contexts. By fostering interdisciplinary dialogue between HCI, AI, gerontology, and cross-cultural studies, we aim to advance the development of digital coaching ecosystems that effectively integrate cultural nuances, ethical considerations, and usability requirements—ultimately addressing a timely societal challenge that demands international collaboration and innovative technological solutions.

Topics of Interest:

- Cross-Cultural Perspectives on Digital Health and Aging
- Cultural Adaptation in Digital Coaching Systems
- Human–AI Collaboration in Health and Wellness Coaching
- Ethical, Legal, and Social Implications (ELSI) in AI for Aging
- Interdisciplinary Frameworks for Aging and Technology
- User-Centered Design and Usability for Older Adults
- Personalization and Adaptability in Digital Coaching
- Evaluation and Impact Assessment in Real-World Settings
- Emerging Technologies in Smart Aging Environments
- Scalability, Sustainability, and Policy for International Collaboration

Review Process

The workshop will follow a rigorous peer-review process similar to the main conference. Each submission will be reviewed by two or three experts spanning the fields of computer science, AI, gerontology, HCI, and ethics. We expect to accept 6-8 high-quality papers for the workshop. Reviews will evaluate papers based on originality, technical soundness, relevance to the workshop themes, and potential for stimulating discussion and future collaboration.

Dissemination Plans

We will disseminate the call for papers through multiple channels:

1. Academic mailing lists relevant to HCI, AI, aging technologies, and digital health
2. Social media platforms (X, LinkedIn, ResearchGate)
3. Personal networks of organizers in both the EU and Japan
4. Relevant research centers and networks focusing on aging and technology
5. EU-Japan funding initiatives and collaborative research projects

We will also establish a continuing network of researchers and practitioners interested in EU-Japan collaboration in this field. We expect approximately 20-30 participants, including authors, invited speakers, and other attendees interested in the topic.

Contact

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International Workshop on
Human-Centered AI and Digital Coaching

Aim and Scope

As populations around the world continue to age, there is an urgent need to develop innovative, inclusive, and effective strategies that support the health, well-being, and independence of older adults. Digital technologies—especially AI-driven systems—hold significant promise in addressing age-related challenges. Among these, digital coaching has emerged as a powerful approach to provide personalized guidance and motivation for healthy aging. However, the successful deployment of such systems requires careful consideration of cultural, social, ethical, and usability factors, particularly when applied across diverse global contexts. Bridging the gap between human support and technological interventions remains a pressing interdisciplinary challenge.

This workshop aims to explore the intersection of human-centered AI, digital coaching, and cultural adaptation in the context of aging societies. It will bring together researchers and practitioners from various disciplines—including human-computer interaction (HCI), AI, psychology, gerontology, and cross-cultural studies—to discuss how to design, implement, and evaluate digital coaching systems that are effective, ethical, and culturally responsive. By fostering cross-cultural and interdisciplinary dialogue, the workshop will identify challenges and opportunities in integrating human and AI-driven support, promote interdisciplinary collaboration, and pave the way for the development of inclusive digital ecosystems that enhance the lives of older adults.

Topics of interest

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Submission and Publication

The submitted papers should be 4-6 pages long including figures and references and prepared in IEEE CS Proceedings format. At least one of the authors of the accepted paper is requested to register and present the paper at the conference in hybrid mode (in person or virtually). All accepted papers will be published in an IEEE Computer Society proceedings (IEEE-DL and EI indexed).

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

Organizer

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