



2027 ACM International Conference on Trustworthy and Responsible AI and Computing Systems (TRUST 2027)

March 7-9, 2027 · Washington DC

<https://eigtrust.acm.org/trust2027/>



Call for Papers

EA Track on Explainable and Trustworthy AI for Digital Health (ETA-Digital Health)

Track Chairs:

- Dr. Sagnik Dakshit, Kennesaw State University, sdakshit@kennesaw.edu
- Dr. Ahmad P. Tafti, University of Pittsburgh, tafti.ahmad@pitt.edu
- Dr. Ayse Tekes, Kennesaw State University, atekes@kennesaw.edu

Description

We invite original research contributions to the Emerging Area Track on Explainable and Trustworthy AI for Digital Health (ETA-Digital Health) at ACM TRUST 2027, to be held in Washington DC, March 7–9, 2027.

The widespread adoption of artificial intelligence in digital and mobile health settings demands systems that are not only accurate but transparent, auditable, fair, and aligned with everyday use, remote care workflows, and regulatory expectations. ETA-Digital Health provides a dedicated forum for foundational and applied research at the intersection of explainable AI, trustworthy systems, and digital health, spanning wearable biosignal intelligence, remote patient monitoring, rehabilitation technology, mHealth applications, and responsible AI governance for consumer-facing health technologies. The track welcomes contributions from researchers, clinicians, engineers, and policymakers working to advance safe, reliable, and human-centered AI across the full spectrum of digital and mobile health systems.

Track Topics

- Explainable AI for wearable and mobile health sensing
- Multimodal biosignal fusion for continuous mobile health monitoring
- Federated and on-device learning for wearable/IoT health sensors
- Equity and digital divide in mHealth technology adoption
- Uncertainty quantification for continuous physiological sensing
- Edge AI, hardware-based trust (secure enclaves/TEEs), and security for wearable and VR/AR health devices.
- Agentic AI for remote monitoring and care coordination
- Patient trust and human-in-the-loop design for remote monitoring
- Benchmark datasets and evaluation for wearable/mobile health AI
- Data ownership, governance, and SaMD regulatory pathways for digital health AI
- AI-driven remote patient monitoring and mHealth systems
- Trustworthy AI for rehabilitation, telehealth and digital health delivery
- Explainable AI for VR/AR-based digital health and rehabilitation
- AI for smartphone-based digital therapeutics

Paper Submission and Publication

Manuscripts should be in PDF format, using the 2-column ACM sigconf template, see <https://www.acm.org/publications/proceedings-template>. Full papers cannot exceed 9 pages, including an appendix, plus unlimited pages for the GenAI Usage Disclosure section and references. Reviewing will be

double-blind. Submissions must not reveal the authors' names and their affiliations and avoid obvious self-references. Accepted papers will be in the ACM Digital Library and indexed in EI Compendex and Scopus. Submission Link: <https://cmt3.research.microsoft.com/TRUST2027/Submission/Index>

Important Dates

Abstract Registration: October 24, 2026

Paper Submission: October 31, 2026

Notification of Acceptance: December 31, 2026

Final Manuscript (Camera Ready): February 28, 2027