



AI-HCI 2022

3RD INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE IN HCI

Jointly held under one management and one registration with HCI International 2022

HCI International 2022

26 June - 1 July 2022

The Conference will be
held virtually

<http://2022.hci.international/ai-hci>

Chairs

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The conference aims to bring together academics, practitioners and students to exchange results from academic and industrial research, as well as industrial experiences, on the use of Artificial Intelligence technologies to enhance Human-Computer Interaction. In particular, the following areas of research are relevant: (i) Ethical and trustworthy AI to provide a fair and unbiased experience; (ii) Evolution of Human-Centered AI including models, processes and modalities; (iii) Processes, methods and technical frameworks in the area of generative UX / UI design, automatic creation and adaptation of user interfaces; (iv) Consumer and industrial application domains including healthcare, finance, -market places, manufacturing and robots, (semi-) autonomous transportation, personal and industrial dashboards, personalized education and learning, and security.

The conference is targeted at individuals and organizations who have performed research or developed industrial applications in the area of AI in HCI. The conference is also targeted at individuals and organizations which want to learn from those results, so they can (re-)use them in research or industrial applications.

The related topics include, but are not limited to:

- Ethical and trustworthy AI
 - Identifying and addressing biases and potential conflicts such as fairness, privacy, equity, diversity, sustainability, power assignment and distribution, norms, values / beliefs
 - Explainable AI, transparency, reliability, trust, and fairness
 - Metrics and KPIs
- Human-Centered AI
 - Models: human modeling, social models, dialog / interaction models, technology models
 - Processes, tools, methods, standards, multi-disciplinary collaboration
 - Prototyping / simulation
 - User involvement, user research, evaluation, AI technology assessment and customization
 - Data acquisition strategy and data quality
 - Interaction modalities and devices: visual, 2D / 3D, virtual and augmented reality, simulations, digital twin, conversational interfaces, multimodal interfaces, brain-computer interfaces
- Generative UX/UI design
 - Process: goal settings, model selection / training, data acquisition, learning and improvement, refinement.
 - Method and tools: users, data, interaction, domain, adaptability, evaluation
 - Generative UX/UI design frameworks
- Consumer and industrial application domains
 - Healthcare & well-being: diagnostics support, treatment suggestions incl. explainability, evidence and confidence, e-healths, personalized healthcare, e-IoT, socially assistive robots, ...
 - Cultural and art applications: Writing, painting, drawing, composing, arts, computer gaming, ...
 - Financial applications: trends, predictions, bids, risk assessments, recommendations, ...
 - Market places: match finding, trending, bidding, offering, ..
 - Manufacturing & robots: human-robot teaming, human-robot interaction, safety, ...
 - (Semi-) Autonomous transportation: monitoring and control, explainability, evidence and confidence, ethical conflict resolution, safety, social navigation, ...
 - Personal and industrial dashboards: status, deviations, recommendations for preventive and corrective actions including explainability, evidence and confidence, ...
 - Personalized education and e-learning: assessment, planning, content selection, progress measurements, ...
 - Security: predicting and identifying vulnerabilities, predicting and suggesting mitigations, selecting and executing mitigations, monitoring incidents, penetration testing, digital forensics, ...

Conference proceedings published by



Submission deadlines are available at the HCI 2022 website:

<http://2022.hci.international/submissions>