

1. Record Nr.	UNISA996664552703316
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Titolo	Artificial Intelligence in HCI : 6th International Conference, AI-HCI 2025, Held as Part of the 27th HCI International Conference, HCII 2025, Gothenburg, Sweden, June 22–27, 2025, Proceedings, Part IV // edited by Helmut Degen, Stavroula Ntoa
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-93429-6
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (557 pages)
Collana	Lecture Notes in Artificial Intelligence, , 2945-9141 ; ; 15822
Altri autori (Persone)	NtoaStavroula
Disciplina	005.437 004.019
Soggetti	User interfaces (Computer systems) Human-computer interaction Artificial intelligence Social sciences - Data processing Education - Data processing Computer networks Electronic commerce User Interfaces and Human Computer Interaction Artificial Intelligence Computer Application in Social and Behavioral Sciences Computers and Education Computer Communication Networks e-Commerce and e-Business
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- AI-Driven Creativity: Applications and Challenges. -- Creativity Catalyst: Exploring the Role and Potential Barriers of Artificial Intelligence in Promoting Student Creativity. -- AIGC in Design: Critical Thinking Challenges and Opportunities Revealed through Systematic Review. -- Exploring Flow in IT Professionals' Use of AI-Integrated Tools: Insights from Interviews. -- The Application of Generative Artificial Intelligence in Design-Based Elementary Education: A Mixed-

Methods Study and Dynamic Scaffolding Model Construction Based on Color Composition Courses. -- Research on the Integration of AIGC in Advertising Design and Industry-Education Practice. -- Application, Impact and Future Prospects of AIGC in Spatial Design Programs. -- AI in Industry, Automation, and Robotics. -- Assessing Drone-Enabled Infantry Maneuvers through Tactical Simulation. -- Reinforcement Learning for Robust Control of Individual Wheel Drive Mobile Robots with Passive Articulated Steering for Reverse Maneuvering. -- Towards Motor Interference of Limb Configuration Changes – A Potential Measure for Human-likeness of Robots. -- Antl-Disaster: Utilizing GOAP in Dynamic Situations. -- MR-IntelliAssist: A World Cognition Agent Enabling Adaptive Human-AI Symbiosis in Industry 4.0. -- Visual Instruction as an Intuitive Interface for Robotic Sorting. -- Mixed Reality and Digital Twin at Otto Rettenmaier-Research-Laboratory. -- Anomaly Detection on Real-World Industrial Manufacturing Applications with Additional Anomaly Type Clustering. -- Intelligent Assembly Algorithm with a Force-Velocity Controller for Solving the Peg-in-Hole Problem Using Lithium-Ion Cells. -- The Influence of Inaccurate GPU Power Measurements for Machine Learning Workloads in Industrial Applications. -- Comfort with Social Robots in the Pre-Interaction Phase: A Field Experiment with Customers of a Retail Bank. -- Human-Centered AI and Machine Learning Technologies. -- Applied Optical Character Recognition and Large Language Models in Augmenting Manual Business Processes for Data Analytics in Traditional Small Businesses with Minimal Digital Adoption. -- Leveraging Domain-specific Databases for Seq2Seq-based Relation Extraction from Materials Science Texts. -- Advancing STT for Low-Resource Real-World Speech. -- Interactive Discovery of Concept Drift with Lossless Visualization in Machine Learning. -- Improving Consistency in the Analytic Hierarchy Process: A Comparative Study of Pairwise Comparisons and Simultaneous Comparison Scales. -- PEIRE- A Model for the Transfer of Information. -- Causal Reasoning with Large Language Models – A ChatGPT Case Study. -- From Human Annotators to AI: The Transition and the Role of Synthetic Data in AI Development. -- Boosting of Classification Models with Human-in-the-Loop Computational Visual Knowledge Discovery.

Sommario/riassunto

The four-volume set LNAI 15819–15822 constitutes the thoroughly refereed proceedings of the 6th International Conference on Artificial Intelligence in HCI, AI-HCI 2025, held as part of the 27th International Conference, HCI International 2025, which took place in Gothenburg, Sweden, June 22-17, 2025. The total of 1430 papers and 355 posters included in the HCII 2025 proceedings was carefully reviewed and selected from 7972 submissions. The papers have been organized in topical sections as follows: Part I: Trust and Explainability in Human-AI Interaction; User Perceptions, Acceptance, and Engagement with AI; UX and Socio-Technical Considerations in AI Part II: Bias Mitigation and Ethics in AI Systems; Human-AI Collaboration and Teaming; Chatbots and AI-Driven Conversational Agents; AI in Language Processing and Communication. Part III: Generative AI in HCI; Human-LLM Interactions and UX Considerations; Everyday AI: Enhancing Culture, Well-Being, and Urban Living. Part IV: AI-Driven Creativity: Applications and Challenges; AI in Industry, Automation, and Robotics; Human-Centered AI and Machine Learning Technologies.
