NOVEMBER 21–22, 2026

# 5th Eurasian Conference on Human-Computer Interaction

Theme: Human–AI Symbiosis for Learning, Interaction, Ethics, Accessibility, and Collective Intelligence

Hybrid · Istanbul Beykent University – Taksim Campus · İstanbul, Türkiye

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| DAYS | KEYNOTES | PAPERS | HALLS |

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# Opening Program

Saturday, November 21, 2026

## Opening Ceremony

(09:00 - 11:00)
Adem Çelik Conference Hall

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|---|---|
| 09:00 - 10:00 | Registration |
| 10:00 - 10:15 | Speech by the Rector of the Istanbul Beykent University, Prof. Dr. Volkan Öngel |
| 10:15 - 10:30 | Speech by the Dean of the Engineering and Architecture Faculty, Prof. Dr. Bahaddin Sinsoysal |
| 10:30 - 10:40 | Speech by the Co-Founder of the HCI-E Conference, Prof. Dr. Kürşat Çağıltay |
| 10:40 - 10:45 | Speech by Lecturer Shamil Humbatov |
| 10:45 - 11:00 | Presentation of appreciation plaques |

## Keynote Speaker 1

11:00 - 11:30

**Prof. Dr. Holger Regenbrecht**
University of Otago
Aotearoa New Zealand

When Emerging Technologies Are Combined — On Ethics and Pervasive Augmented Reality

Coffee break (11:30-11:45)

## 11:45 - 13:15 Paper Sessions

Hall 1 · Hall 2 · Hall 3 · Adem Çelik Conference Hall

Browse papers →

Lunch (13:15-14:15)

## Keynote Speaker 2

14:20 - 14:50

**Asst. Prof. Dr. Bengisu Çağıltay**
Media and Visual Arts
Koç University - Istanbul, Türkiye

From Unboxing to Shutdown: Designing the Future of Social Robots in Family Life

## 15:00 - 17:30 Paper Sessions

Hall 1 · Hall 2 · Hall 3 · Adem Çelik Conference Hall

Browse papers →

NOV 22

# Program

Sunday, November 22, 2026

| | | |
|---|---|---|
| **Keynote Speaker 3** | 10:00 - 10:30 | **Asst. Prof. Dr.Polat Göktaş**<br>Computer Science and Engineering Program<br>Sabancı University - Istanbul, Türkiye<br>From Human-Centered AI to Human-AI Symbiosis: Designing Trustworthy, Inclusive, and Responsible Intelligent Systems |
| **Workshop** | 10:45 - 12:00 | **Av. Seda Kurt & Av. Mehmet Serhat Kurt**<br>İnsan–Yapay Zeka Çerçevesinde Hukuki Sınırlar ve Etik İkilemler |
| 10:45 - 12:00 | **Paper Sessions**<br>Hall 1 Hall 2 Hall 3 | Browse papers → |
| **Adem Çelik Conference Hall** | 12:15 - 12:30 | Closing Speech |

NOV 21

# Paper Session

Saturday, November 21, 2026

## 11:45 - 13:15

### HALL 1

SALON BAŞKANI
**Zeynep Altan**

**Investigation of the Effect of an Extra Robotic Limb on Neuroplasticity**
Youness Lahdili, Hakan Yadigar, Emine İrem Tekeli, Aslı Ergün, Kutluk Bilge Arıkan

**Visibility of Shared State: A User-Centered Design Case Study of a Multi-Role Mobile Pet Health Application**
Nisa Atım, Gülce Kulaksızoğlu, Didem Tufan

**Critical Success Factors (CSFs) Across Traditional, Agile, and Hybrid Information Technology (IT) Projects: Examining End-User Factors from a Human-Computer Interaction (HCI) Perspective**
Çağla Özen, Hatice Soğukpınar Ergüder, Meltem Özturan

**Measuring Cognitive Overload and Annotation Efficiency in Open-Source Data Annotation Tools**
K M Nafiur Rahman Fuad, Mumtahina Ahmed, Md. Neamul Haque, Nasreen Azad, Muhammad Nazrul Islam

### HALL 2

SALON BAŞKANI
**Umut Kaya**

**Beyond Single-Objective Manipulability: A Speed–Force–Size Trade-off Analysis for Wearable Single-DOF Finger Exoskeleton Linkages**
Zeynep Aslan, Umut Aygün, Kutluk Bilge Arıkan

**Stress-Related Effects on Cerebellum-Dependent Motor Adaptation in a Leader–Follower Human–Computer Interaction Task**
Hasan Qawas, Aşkım Gülpek, Kutluk Arıkan

**How Users Rate and Perform Tasks in Generative AI Interfaces: A Comparison of ChatGPT, Gemini, and Claude**
Nilgün Özdamar, Sefa Emre Öncü, Uygar Soyrac

**Perceived Usability of Prompt-Based AI Tutors in a University English Preparatory Program: Instructor and Student Perspectives**
Duygu Timur Açar, Sezin Eşfer

### HALL 3

SALON BAŞKANI
**Kürşat Çağıltay**

**Human-Centered AI for English for Specific Purposes: Engineering Students' Perceptions of AI-Assisted Learning and Employability Skills**
Mohd Shahbaz Khan

**From AI Adoption to Business Performance: A Human-AI Decision Intelligence and Organizational Agility Framework**
Rasim Abutalıbov, Seymur Guliyev

**A Confidence-Gated Colour and Concavity-Based Framework for Human-Supervised Visual Monitoring of Drill Cuttings**
Khalid Akhundov, Timur Aliyev

**Designing for "Calibrated Trust": An Explainability-Oriented Interface Framework for Early-Stage Architectural Decision Support**
Ürün Biçer, Serkan Erdinç

### ADEM ÇELIK CONFERENCE HALL

SALON BAŞKANI
**H. Can Barutcu**

**A Human-Centered Retrieval-Augmented Generation Framework for Transparent Sprint Planning in Agile**
Hikmat Allahverdiyev

**Bengali Image Alternative Text Generation Using Deep Learning for Enhanced Accessibility**
Arnab Singha, Mahadi Rahman, Tanjila Sarkar Promi, S. M. Nafis Ahmed, Syed Nafees Kaiser, Nasreen Azad, Muhammad Nazrul Islam

**LucidUI: A Flashlight, Not a Judge for Explainable, Deterministic Evaluation of AI-Generated Interfaces**
Ömer Burak Şal, Hale Sezin Özorman, Didem Tufan

**Dual Orchestration in a Browser-Based Music Learning Platform**
Fulya Çelikel Soğancı

| HALL 1 | HALL 2 | HALL 3 | ADEM ÇELIK CONFERENCE HALL |
|---|---|---|---|
| **Comparative Evaluation of Usability and UX across YouTube, Instagram, and TikTok: The Role of Demographic Factors**<br>Sazia Tabasum Mim, Muhammad Nazrul Islam, Fairooz Nawar Nawme, Tanha Tasfia, Nasreen Azad, Nazim Choudhury | **Eye-Tracking-Based Evaluation of Urban Identity Elements in the Kilis Urban Conservation Area**<br>Saliha Taşçıoğlu, Adem Korkmaz, Selma Bulut, Zeyneb Uylaş Aksu, Sevinç Gülseçen | **From Physiological Signals to Adaptive Interfaces: A Wearable-Based Stress Classification Framework for Human-AI Symbiosis**<br>Bedirhan Demirci | **Human-in-the-Loop Agentic Access Governance in a Data Mesh: Bridging Contextual Assessment and Deterministic Enforcement**<br>Ahmet Çiçekci, Altan Çakır |
| **Usability and Cognitive Workload Across Generative AI-Based Chatbots: A Multi-Method Comparative Study**<br>Kazi Israt Hassan Eva, Shadman Shafeen Khan, Nasreen Azad, Muhammad Nazrul Islam | **Calibrated Trust or Blind Reliance? Uncovering Human-AI Symbiosis Profiles among Software Developers through Clustering and Explainable Machine Learning**<br>Rana Kaptan, Elif Üler | **Beyond the Second Pilot: An LLM-Assisted Decision Support System for Single-Operator Swarm UAV Operations**<br>Ayşe Erdemir, Banu Diri | **User trust and emotional self-disclosure in LLM-based chatbots: an empirical comparison of three bots**<br>Asya Guliyeva, Tarana Aliyeva |

Lunch (13:15-14:15)

## 15:00 - 17:30

| SALON BAŞKANI<br>Asiye Bilgili | SALON BAŞKANI<br>Sezin Eşfer | SALON BAŞKANI<br>Zeyneb Uylaş Aksu | SALON BAŞKANI<br>Sevinç Gülseçen |
|---|---|---|---|
| **Can Visual Noise Enhance Sensorimotor Control? A Pilot Study Using a Virtual Cart-Pole Task**<br>Miray Şen, Elif Nur Haney, Elif Arabacı, Ali Emre Turgut, Kutluk Bilge Arıkan | **Interaction Processes and Depth Perception in Immersive Virtual Reality Painting for Embodied Human–Computer Interaction**<br>Gokce Nur Yılmaz, Esra Özcan, Tülin Haslaman, Kutluk Bilge Arıkan, John John Cabibihan, Kürşat Çağıltay | **A Human-Centered Examination of an LLM's Alignment with Human Judgment in Evaluating Turkish Instructional Summaries**<br>Anıl Kuş, Manuel Suárez Román | **Prompt Engineering and Emotional Intensity in AI-Assisted Music Production: A Human–AI Co-Creation Case Study**<br>Emre Tandırlı |
| **Designing Trust-Calibrated, Blockchain-Anchored Explainable Interfaces for Banking Fraud Analysts**<br>Orkhan Masimov | **Viewing Angle and Directional Lighting in Immersive VR: An Exploratory Study of Object-Manipulation Performance**<br>Semihanur Aktay Subaşı, Deniz Merve Uzun, Gökçe Nur Yılmaz, Yücel Çimtay | **From the Past to The Future: Historical Roots and Contemporary Challenges of Human–Artificial Intelligence Symbiosis in Human–Computer Interaction**<br>Nermine Emirbeyova | **Explainable and Leakage-Controlled Multimodal Analysis of Task Complexity and Performance for Adaptive Situation-Monitoring Interfaces**<br>Durmuş Koç, Sevinç Gülseçen |
| **Ruled Out, Still Believed: Auditing and Repairing Belief Updating in Visual Dialogue Agents**<br>Siamak Vajdihokmabad, Gokhan Ince | **Comparison of Task-Entry Latency in Handheld Augmented Reality Versus Flat-Screen Interaction**<br>Bora Çalışkan, Bora Şenceylan, Gökhan İnce, İbrahim Delen | **Ethics of Behavioural Defence: Privacy, Fairness, and Human Oversight in Keystroke-Dynamics Detection of HID Injection Attacks**<br>Mahammad Garayev, Asif Ganbayev | **Evidence-Based Redesign of a University Web Ecosystem: Survey Findings, RESTful Architecture and AI-Assisted Content Management**<br>Yunus Emre Hoş, Furkan Terzi, Umut Kaya, Salih Bütüner, Zeynep Altan |

## HALL 1

**A Bidirectional Co-Simulation Framework Coupling Ad-mittance-Controlled Mobile BWS Robots with Predictive Musculoskeletal Dynamics**

Danish Ahmed, Umut Aygun, Şeref Arda Özel, Youness Lahdili, Ali Emre Turgut, Gökçe Nur Yılmaz, Ulaş Güleç, Kutluk Bilge Arıkan

**Human-AI Collaboration in New Product Development Through a Task-Technology Fit Lens: A Systematic Literature Review**

Chaymae Jebari, Dominik Siemon, Sercan Ozcan

**Imagining a Past That Never Was: Human-Centered Interaction with AI-Generated Historical Images**

Hatice Öz Pektaş, Salih Apaydın, Duygu Yucel, Hasip Pektaş

**From Society 5.0 to the Kardashev Scale: The Role of the Smart Human in the Evolution of Technological Civilization**

Burcu Esin İliş, Sevinç Gülseçen

**When Technology Participates in Human Action: Rethinking Agency and Authority in Smart Interaction**

Ayşe Asya Gürgün Özdemir

## HALL 2

**Use of Brain–Computer Interfaces for Motor Rehabilitation in Central Nervous System Disorders: A Narrative Review**

Mahmut Berat Akdağ, Huseyin Can Barutcu

**CAD2VR: Towards enabling design workflows in VR**

Elif Gürçınar, Arzu Çöltekin

**An Evaluation of User Experience, Perceived Workload, and Cognitive Extension in AR-based Medical Training**

Tatiana Veverita, Andrei Braicov, Alexandru Bibic, Mihail Terenti, Radu-Daniel Vatavu

**From Creating Worlds to Making Them Work: Usability of Teacher-Authored Virtual Reality Editor SAGEMO**

Göknur Kaplan, Kursat Cagıltay, Cetin Tuker, Berkan Celik

**Designing Synthesizer Interfaces Around What Changes the Sound: Sensitivity-Informed Progressive Disclosure**

Oğulcan Kibar, Barış Özcan

## HALL 3

**Rethinking Cyberbullying in AI-Mediated Communication: A Pilot Comparison of Human and AI Judgments**

Seda Turan

**Bounding Retained Manipulation in Longitudinal Audits of Dark Pattern Redesign**

Nail Mammadov, Laman Guliyeva, Azar Huseyn, Elchin Abasov, Elmaddin Huseynov, Ali Hasanov

**Legal Regulation of AI-Assisted Recruitment**

Sona Karimova

**From Correlation to Causal-Aware Explainability: Integrating Machine Learning and Explainable AI in Educational Data**

Ayşe Dilek Öztürk, Zeynep Altan

**Dark Patterns in Subscription Cancellation Interfaces**

Samina Rustamova, Rahima Calilova, Yegane Alieva, Sevinc Azimova

## ADEM ÇELIK CONFERENCE HALL

**Design and Generalizability Analysis of a Human-Centered, AI-Supported Mobile/Web Platform for Sustainable Waste Sorting: ALIŞKAN**

Ebru Inan Barutcu, Kan Kılıç, Eyüp Harun Zeybek, Mert Akgür

**Integration of English Language Teaching in Technical Higher Education Institutions with Artificial Intelligence: an Innovative Model Based on ESP and CLIL**

Almaz Mehdiyeva

**How to Think in (Design) Systems in 2026? Components, Accessibility, and the Case for Hypertokens**

Muhammad Ali

**Touch-Based Interfaces for Diabetes Management Products in South Asian Geriatric Populations**

Dipak Jana

**Designing Conversational AI Around Human Needs: Towards an Inclusive Framework for Older Adults**

Diva Smriti, Martin Lacayo Emery, Kathrin Koebel, Madhumita Murali, Sukhi Sandhu, Arzu Cöltekin, Jina Huh-Yoo

NOV 22

# Paper Session

Sunday, November 22, 2026

## 10:45 - 12:00

### HALL 1

SALON BAŞKANI
**Asiye Bilgili**

**StrideGuide**
Kuzey Doğan, Yalcin Tur, Sadi Bulut

**The Human-Technology-Healthcare Triangle**
Emin Tavakkulov

**At-home physiotherapy for older adults with a digital coach**
Cloe Hüsser, Raphael Banz, Alessandro Calcagno, Arzu Çöltekin

**The Role of Smart Rings for Stress Regulation among Young Adults**
Chenxin Chen, Kevin Doherty, Andreas Balaskas

**An Exploratory Study of Readability and Affective Expression in Turkish E-Commerce Reviews**
Seda Kılıçer, Rüya Şamlı

### HALL 2

SALON BAŞKANI
**Umut Kaya**

**A Comparative Study of Visual–Motor Skills in Children with Learning Disabilities and Their Typically Developing Peers**
Sude Sari, Gokce Nur Yılmaz, Tulin Haslaman, Esra Ozcan, Kursat Cagiltay

**The Impact of AI-Based Learning Applications on Generation Z: A Review of Gamified Digital Learning Platforms**
Mehmet Görkem Kestane, Livanur Pınar

**Determining Design Criteria for a Multimodal Neuro-Adaptive Digital Game for Individuals with Dyslexia**
Semra Fiş Erümit, Furkan Kalyoncu, Hasan Karal, Ali Kürşat Erümit, Adil Yıldız

**Qastle: Reimagining Chess Through a Cross-Cultural Turn-Based Strategy Game for Mobile Platforms**
Abdullah Doğan, Yunus Doğan

**When the Chatbot gets it wrong: service failure and trust repair in AI-mediated higher education marketing**
Hoang Lam Phan, Hesham Magd

### HALL 3

SALON BAŞKANI
**Ebru İnan Barutcu**

**Visual Attention to Interactive Elements in an H5P Video Environment: An Eye-Tracking Mixed-Methods Study**
Serra Ersoy

**From Immersive Practice to Safe Action: A Transfer-Contingency Framework for Construction Safety Training**
Shamil Humbatov

**Exploring Cognitive Load Across Different Storytelling Approaches in Video Game Onboarding Using NASA-TLX**
Progga Ray, Reefah Tasnia Haque, Nasreen Azad, Muhammad Nazrul Islam

**Beyond Passage-Level Matching: Question Type as a Design Lever in Adaptive Reading Systems**
Tanuj Garg, Mahit Chopra, Ansh Sharma, Gowtham Krishna, Samaira Garg

**Human-Centered Digital Twin for Construction Business Processes in Post-Conflict East Zangezur**
Nijat Jafarli, Rasim Abutalibov