



HCI International 2022

24th INTERNATIONAL CONFERENCE  
ON HUMAN-COMPUTER INTERACTION

**WELCOME**

# HCI 2022 Overview (1/2)



HCI International 2022

24<sup>th</sup> International Conference  
on Human – Computer Interaction

**21**

**DISTINGUISHED INTERNATIONAL  
BOARDS**

**524**

**MEMBERS**

**63**

**COUNTRIES**

# HCII 2022 Overview (2/2)

23

tutorials

306

parallel  
sessions

Submissions from 6,244 individuals from  
academia, research institutes, industry and  
governmental agencies  
from 88 countries

1,276 papers

275 posters

in the proceedings already  
published **before the  
conference**

296 papers

179 posters

in the 'Late Breaking Work'  
proceedings to be published  
**after the conference**

2,264

registered conference  
participants from  
71 countries



# Recognition and Appreciation



**Gavriel Salvendy**  
Conference Founder, General Chair  
Emeritus and Scientific Advisor



# Conference Support

Dr. [Abbas Moallem](#)  
Communications Chair,  
Exhibition Chair,  
[HCII News Editor](#)

External  
[Reviewers](#)



[Student  
Volunteers](#)  
(Session Hosts)

HCI@ICS - FORTH

# Conference Proceedings



HCI International 2022

24<sup>th</sup> International Conference  
on Human – Computer Interaction

HCII 2022 Conference Proceedings:

<https://2022.hci.international/proceedings>

**48** volume set

already published

**36** vols. LNCS/LNAI

**4** vols. CCIS

to be published

**6** vols. LNCS/LNAI

**2** vols. CCIS

**Paperback** format available  
for purchase by Springer as  
separate volumes

Available **on-line** through the  
SpringerLink Digital Library

**LNCS & LNAI** volumes indexed by:

Conference Proceedings Citation Index (CPCI), part of  
Clarivate Analytics' Web of Science, EI Engineering Index  
(Compendex and Inspec databases), ACM Digital Library,  
DBLP, Google Scholar, IO-Port, MathSciNet, Scopus,  
Zentralblatt MATH

**CCIS** volumes indexed by:

DBLP, Google Scholar, EI-Compendex, Mathematical  
Reviews, SCImago, Scopus.

CCIS volumes are also submitted for the  
inclusion in ISI Proceedings



Springer

**Lecture Notes in  
Computer Science**

LNCS

LNAI

LNBI



\*Conference participants can download the proceedings **via their CMS account**

# Workshops



HCI International 2022

24<sup>th</sup> International Conference  
on Human – Computer Interaction

15:00 – 19:30 CEST



**27**

JUNE

**Design Thinking and AI**

14:30 – 19:00 CEST



**28**

JUNE

**The 6 Grand Challenges for HCAI:  
A Deep Dive**

14:30 – 16:30 CEST



**29**

JUNE

**A networking opportunity to discover  
and shape topics within the AI/HCI  
Space**

[students]



# Best Poster and Papers **Awards**

**1**

**POSTER**

**21**

**PAPERS**

*one for each  
thematic area/  
affiliated  
conference*





# Best Poster Award

## Certificate

*for Best Poster Extended Abstract Award*

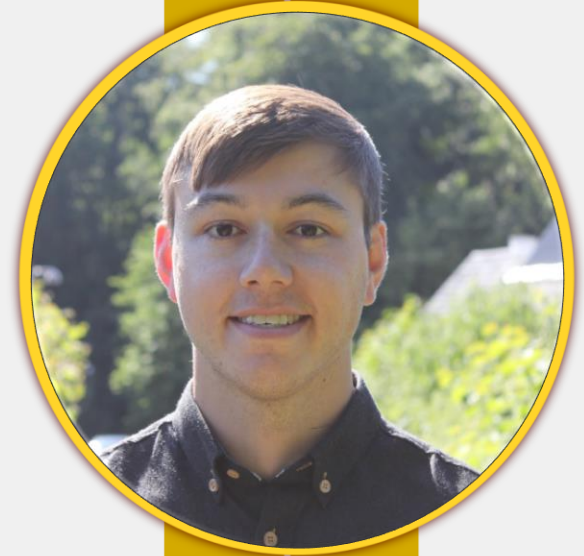
*conferred to*

**Ulrich Farhadi, Troels Aske Klausen, Jonas Jørgensen and Evgenios Vlachos**  
(University of Southern Denmark, Denmark)

*for the poster entitled*

***“Exploring the Interaction Kinesics of a Soft Social Robot”***

*Presented in the context of*  
**HCI International 2022**  
26 June—1 July 2022



# Best Paper Awards

## Certificate

*for Best Paper Award of the  
Human-Computer Interaction Thematic Area*

*conferred to*

***James Pustejovsky (Brandeis University, USA) and  
Nikhil Krishnaswamy (Colorado State University, USA)***

*for the paper entitled*

***“Multimodal Semantics for Affordances and Actions”***

*Presented in the context of  
HCI International 2022  
26 June—1 July 2022*



# Best Paper Awards

## Certificate

*for Best Paper Award of the  
Human Interface and the Management of Information Thematic Area*

*conferred to*  
**Ryo Hanashima and Junji Ohyama**  
*(National Institute of Advanced Industrial Science and Technology / University of Tsukuba, Japan)*

*for the paper entitled*  
**"How to Elicit Ownership and Agency for an Avatar Presented in the Third-Person Perspective:  
The Effect of Visuo-Motor and Tactile Feedback"**

*Presented in the context of*  
**HCI International 2022**  
*26 June—1 July 2022*



# Best Paper Awards

## Certificate

*for Best Paper Award of the  
19th International Conference on Engineering Psychology and Cognitive Ergonomics*

*conferred to*  
**Maik Friedrich, Felix Timmermann and Jörn Jakobi**  
*(German Aerospace Center, Germany)*

*for the paper entitled*  
**"Active Supervision in a Remote Tower Center: Rethinking of a New Position in the ATC Domain"**

*Presented in the context of*  
**HCI International 2022**  
*26 June—1 July 2022*





# Best Paper Awards

## Certificate

*for Best Paper Award of the  
16th International Conference on Augmented Cognition*

*conferred to*

**Stefan Sütterlin** (Albstadt-Sigmaringen University, Germany / Østfold University College, Norway),  
**Ricardo G. Lugo, Torvald F. Ask** (Østfold University College / Norwegian University of Science  
and Technology, Norway), **Karl Veng, Jonathan Eck, Jonas Fritschi, Muhammed-Talha Özmen,**  
**Basil Bärreiter** (Albstadt-Sigmaringen University, Germany) **and Benjamin J. Knox** (Østfold University College /  
Norwegian University of Science and Technology / Norwegian Armed Forces Cyber Defence, Norway)

*for the paper entitled*

***“The Role of IT Background for Metacognitive Accuracy, Confidence and  
Overestimation of Deep Fake Recognition Skills”***

*Presented in the context of  
HCI International 2022  
26 June—1 July 2022*



# Best Paper Awards

## Certificate

*for Best Paper Award of the  
16th International Conference on Universal Access in Human-Computer Interaction*

*conferred to*

**Roberto Vaz, Diamantino Freitas** (University of Porto, Portugal) **and**  
**António Coelho** (University of Porto and INESC TEC, Portugal)

*for the paper entitled*

***“Enhancing the Blind and Partially Sighted Visitors’ Experience in Museums Through  
Integrating Assistive Technologies, Multisensory and Interactive Approaches”***

*Presented in the context of  
HCI International 2022  
26 June—1 July 2022*



# Best Paper Awards

## Certificate

*for Best Paper Award of the  
14th International Conference on Cross-Cultural Design*

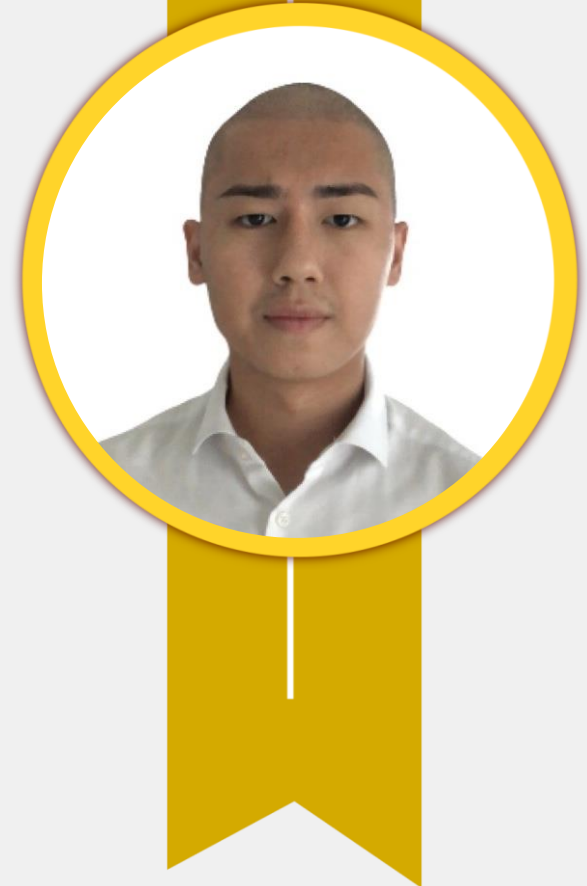
*conferred to*

**Nicholas Hong Li Khoo** (Nanyang Technological University, Singapore), **Fan Li** (The Hong Kong Polytechnic University, Hong Kong), **Chun-Hsien Chen** (Nanyang Technological University, Singapore), **Yisi Liu** (Singapore Polytechnic, Singapore), **Fitri Trapsilawati** (Universitas Gadjah Mada, Indonesia), and **Olga Sourina** (Fraunhofer Singapore / Nanyang Technological University, Singapore)

*for the paper entitled*

***“Attention Distribution and Decision-Making in the Process of Robot's Appearance Design and Selection”***

*Presented in the context of  
HCI International 2022  
26 June—1 July 2022*



# Best Paper Awards

## Certificate

*for Best Paper Award of the  
14th International Conference on Social Computing and Social Media*

*conferred to  
**Leon Koren, Tomislav Stipancic, Andrija Ricko and Luka Orsag**  
(University of Zagreb, Croatia)*

*for the paper entitled  
**"Multimodal Emotion Analysis based on Visual, Acoustic and Linguistic Features"***

*Presented in the context of  
HCI International 2022  
26 June—1 July 2022*





# Best Paper Awards

## Certificate

*for Best Paper Award of the*  
**14th International Conference on Virtual, Augmented and Mixed Reality**

*conferred to*  
**Chao Peng, Yangzi Dong and Lizhou Cao**  
*(Rochester Institute of Technology, USA)*

*for the paper entitled*  
**"Real-Time Bimanual Interaction Across Virtual Workspaces"**

*Presented in the context of*  
**HCI International 2022**  
*26 June—1 July 2022*



# Best Paper Awards

## Certificate

*for Best Paper Award of the*  
**13th International Conference on Digital Human Modeling and Applications in Health,  
Safety, Ergonomics and Risk Management**

*conferred to*  
**Liu Yang, Catherine Achard and Catherine Pelachaud**  
*(CNRS-ISIR, Sorbonne University, France)*

*for the paper entitled*  
**"Multimodal Analysis of Interruptions"**

*Presented in the context of*  
**HCI International 2022**  
*26 June—1 July 2022*



# Best Paper Awards

## Certificate

*for Best Paper Award of the  
11th International Conference on Design, User Experience and Usability*

*conferred to  
**Inês Lopes, Ernesto Filgueiras, Alexandre Guerreiro and João Monteiro**  
(University of Beira Interior, Portugal)*

*for the paper entitled  
**"Inclusive Design: Furniture Design for Autism Parents Support"***

*Presented in the context of  
HCI International 2022  
26 June—1 July 2022*



# Best Paper Awards

## Certificate

*for Best Paper Award of the  
10th International Conference on Culture and Computing*

*conferred to*

**Phaedra S. Mohammed** (The University of the West Indies, Trinidad and Tobago),  
**André Coy** (The University of the West Indies, Jamaica), **Paulson Skerrit** (The University of the West Indies,  
Trinidad and Tobago), **Yewande Lewis-Fokum** (The University of the West Indies, Jamaica),  
**Asad Mohammed** (The University of the West Indies, Trinidad and Tobago), and  
**Aneeqah Hosein** (The University of the West Indies, Jamaica)

*for the paper entitled*

***“The Importance of Culturally-Situated Design on Children’s Interaction with  
Speech-Enabled Features in an Online Spelling Tutor”***

*Presented in the context of  
HCI International 2022  
26 June—1 July 2022*





# Best Paper Awards

## Certificate

*for Best Paper Award of the  
10th International Conference on Distributed, Ambient and Pervasive Interactions*

*conferred to*

**Ioannis Tsampoulatidis** (Aristotle University of Thessaloniki / Infalia PC, Greece),  
**Nicos Komninos** (Aristotle University of Thessaloniki, Greece), **Evangelos Syrmos** and  
**Dimitrios Bechtsis** (International Hellenic University, Greece)

*for the paper entitled  
"Universality and Interoperability Across Smart City Ecosystems"*

*Presented in the context of  
HCI International 2022  
26 June—1 July 2022*



# Best Paper Awards

## Certificate

*for Best Paper Award of the  
9th International Conference on HCI in Business, Government and Organizations*

*conferred to*  
**Gerrit C. Küstermann and Eva A.C. Bittner**  
*(Universität Hamburg, Germany)*

*for the paper entitled*  
***“Leveraging Human and Machine Capabilities for Analyzing Citizen Contributions in Participatory Urban Planning and Development: A Design-Oriented Approach”***

*Presented in the context of*  
**HCI International 2022**  
**26 June—1 July 2022**



# Best Paper Awards

## Certificate

*for Best Paper Award of the*  
**9th International Conference on Learning and Collaboration Technologies**

*conferred to*  
**Zohreh Shaghaghian, Heather Burte, Dezhen Song and Wei Yan**  
*(Texas A&M University, USA)*

*for the paper entitled*  
**"Learning Spatial Transformations and their Math Representations through  
Embodied Learning in Augmented Reality"**

*Presented in the context of*  
**HCI International 2022**  
*26 June—1 July 2022*



# Best Paper Awards

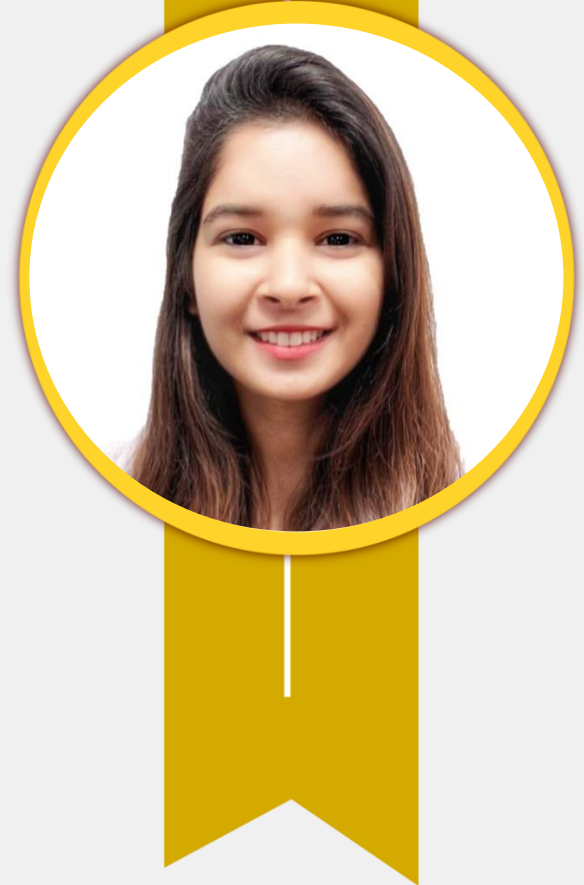
## Certificate

*for Best Paper Award of the  
8th International Conference on Human Aspects of IT for the Aged Population*

*conferred to*  
**Nidhi Mishra, Gauri Tulsulkar** (Nanyang Technological University, Singapore) **and**  
**Nadia Magnenat Thalmann** (Nanyang Technological University, Singapore /  
Miralab, University of Geneva, Switzerland)

*for the paper entitled*  
**"Nadine robot in Elderly care simulation recreational activity:  
Using computer vision and observations for analysis"**

*Presented in the context of*  
**HCI International 2022**  
**26 June—1 July 2022**





# Best Paper Awards

## Certificate

*for Best Paper Award of the  
4th International Conference on Adaptive Instructional Systems*

*conferred to*  
**Alexander Streicher** (Fraunhofer IOSB, Germany) **and**  
**Michael Aydinbas** (TU Darmstadt, Germany)

*for the paper entitled*  
**"Bayesian Cognitive State Modeling For Adaptive Serious Games"**

*Presented in the context of*  
**HCI International 2022**  
26 June—1 July 2022



# Best Paper Awards

## Certificate

*for Best Paper Award of the*  
**4th International Conference on HCI for Cybersecurity, Privacy and Trust**

*conferred to*  
**Maria Chaparro, Andrew Nakushian, Summer Rebensky, Tricia Prior and Meredith Carroll**  
*(Florida Institute of Technology, USA)*

*for the paper entitled*  
**"User Experience, Knowledge, Perceptions, and Behaviors associated with Internet of Things (IoT) Device Information Privacy"**

*Presented in the context of*  
**HCI International 2022**  
**26 June—1 July 2022**



# Best Paper Awards

## Certificate

*for Best Paper Award of the  
4th International Conference on HCI in Games*

*conferred to*

***Reza Habibi, Sai Siddartha Maram, Johannes Pfau, Jessica Wei, Shweta K. Sisodiya,  
Atieh Kashani, Elin Carstensdottir and Magy Seif El-Nasr  
(University of California, USA)***

*for the paper entitled*

***“A Data-driven Design of AR Alternate Reality Games to Measure Resilience”***

*Presented in the context of  
HCI International 2022  
26 June—1 July 2022*



# Best Paper Awards

## Certificate

*for Best Paper Award of the  
4th International Conference on HCI in Mobility, Transport and Automotive Systems*

*conferred to  
**Linyi Jin, Val Mitchell, Andrew May** (Loughborough University, UK) **and Mei Sun**  
(Chengdu University / Tsinghua University / Wuliangye Yibin Company Limited, P.R. China)*

*for the paper entitled  
“Analysis of the Tasks of Control Room Operators within Chinese Motorway Control Rooms”*

*Presented in the context of  
HCI International 2022  
26 June—1 July 2022*





# Best Paper Awards

## Certificate

*for Best Paper Award of the  
3rd International Conference on Artificial Intelligence in HCI*

*conferred to  
**Josefine Finke, Ilona Horwath, Tobias Matzner and Christian Schulz**  
(Paderborn University, Germany)*

*for the paper entitled  
**"(De)Coding Social Practice in the Field of XAI: Towards a Co-constructive Framework of  
Explanations and Understanding Between Lay Users and Algorithmic Systems"***

*Presented in the context of  
HCI International 2022  
26 June—1 July 2022*



# Best Paper Awards

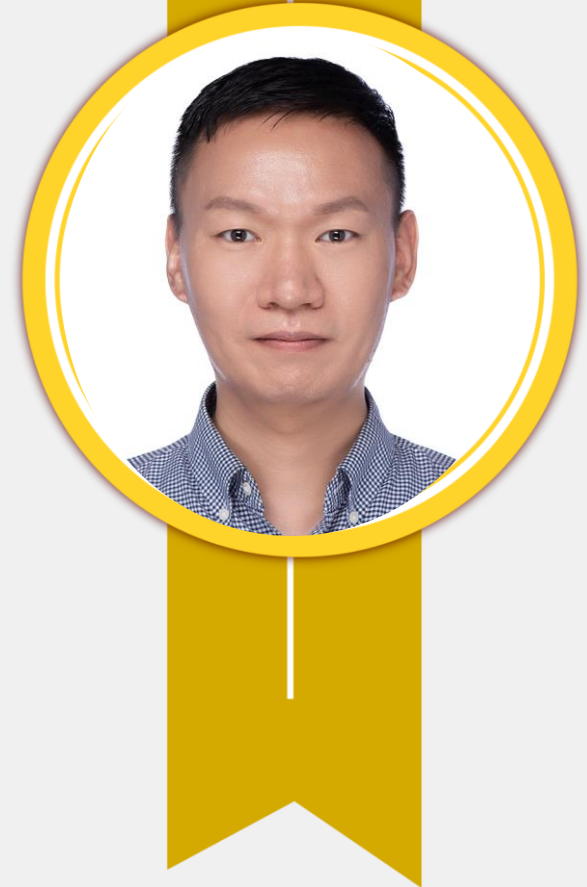
## Certificate

*for Best Paper Award of the*  
**3rd International Conference on Design, Operation and Evaluation of Mobile Communications**

*conferred to*  
**Zhuang Ma** (Chongqing Technology and Business University, P.R. China), **Woon Kian Chong**  
(S P Jain School of Global Management, Singapore) **and Linpei Song** (Gachon University, Korea)

*for the paper entitled*  
**"How Arousing Benefits and Ethical Misgivings Affect AI-based Dating App Adoption:  
The Roles of Perceived Autonomy and Perceived Risks"**

*Presented in the context of*  
**HCI International 2022**  
**26 June—1 July 2022**



# Student Design Competition\* **Awards**



\* All accepted SDC videos are available for the entire duration of the Conference

# Student Design Competition Awards

## Certificate

for the  
**GOLD**  
student design award

conferred to  
**Weijie Wang, Devika Pillai, Matthew Muenzer and Youngryun Cho**  
(Carnegie Mellon University, USA)

for the design idea, presented through a video, entitled  
**“PIA--An Intelligent, Conversational, All-in-one Voice Assistant For Airports”**

Presented in the context of  
HCI International 2022  
26 June—1 July 2022





# Student Design Competition Awards

## Certificate

for the  
**SILVER**  
student design award

conferred to  
*Alice Pettersson, Sebastian Lindberg, Madeleine Falkner, Nima Hadi, Kamyab Mahdavi, Nicole Tobisková*  
(University West, Sweden)

for the design idea, presented through a video, entitled  
*“Augmented Reality - based guidance in wooden truss assembly”*

Presented in the context of  
HCI International 2022  
26 June—1 July 2022



# Student Design Competition Awards

## Certificate

for the  
**BRONZE**  
student design award

conferred to  
**Hani Sindi, Rachel McCrindle**  
(University of Reading, UK)

for the design idea, presented through a video, entitled  
**“Use of a Home-Based Social Robot to Help Prevent Hypothermia and Dehydration in Older Adults”**

Presented in the context of  
HCI International 2022  
26 June—1 July 2022



# World Usability Day: Design Challenge

- A collaboration between HCII and **World Usability Day**, part of the **World Usability Initiative (WUI)**, coordinated by **Elizabeth Rosenzweig**
- **World Usability Day**: aims to raise standards so that technology works to harness human potential
- The 2021 WUD theme:  
*“Design of our Online World: Trust, Ethics, and Integrity”*
- The **Gold**, **Silver** and **Bronze** recipients of the World Usability Day Design Challenge Awards will present their innovative, impactful design on **29 June 2022 at 14:30 – 16:30 CEST**, during **S311: World Usability Day Design Challenge Winners**



HCI International 2022

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<https://worldusabilityday.org/design-challenge/>

## KEY DATES

Submissions opened:

**July 1, 2021**

Deadline:

**September 24, 2021**

Prizes Announced:

**November 11, 2021**

[  **WORLD USABILITY DAY** ]

Ceremony award:

**26 June 2022**

[ **HCII2022 Opening Ceremony** ]

# WUD: Design Challenge Awards

## Certificate

*The 2021 World Usability Day (WUD)  
Design Challenge (DC)*

***GOLD Award***

*is conferred to*

***Diaa Shanti Nazzal, Hala Abu Al-Failat and Yaser Nazzal***  
*(Layouti Design, Jordan)*

*for the design idea entitled*  
***“etoy”***



*Presented in the context of  
HCI International 2022  
26 June—1 July 2022*





# WUD: Design Challenge Awards

## Certificate

*The 2021 World Usability Day (WUD)  
Design Challenge (DC)*

**SILVER Award**

*is conferred to*

***Chia-Hsu Huang, Cheng-Chun Peng, Tsai-Xian Shao, Yi-Fei Wang,  
Min-Yue Qian, Ko-Chiu Wu and Kuei-Ru Chou***  
*(National Taipei University of Technology and Taipei Medical University, Taiwan)*

*for the design idea entitled*

***“Music Tongue”***

*Presented in the context of  
HCI International 2022  
26 June—1 July 2022*



# WUD: Design Challenge Awards

## Certificate

*The 2021 World Usability Day (WUD)  
Design Challenge (DC)*

**BRONZE Award**

*is conferred to  
**Atefeh Jamilpour**  
(Atjat, Iran)*

*for the design idea entitled  
**“Play with Me”***



*Presented in the context of  
HCI International 2022  
26 June—1 July 2022*



# HCI International Conference

## HCI Medal for **Societal Impact**

- As of this year, the HCII conference has established the “**HCI Medal for Societal Impact**”
- It will be awarded during the Opening Plenary Session
- Recipients will be distinguished HCI academics, researchers, or professionals in recognition of the impact of their work in the field of HCI to society



HCI International 2022

24<sup>th</sup> International Conference  
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# HCI Medal for **Societal Impact**

## HCII 2022 **Recipient**



**Ben  
Shneiderman**

The **HCII 2022 Conference** is proud to announce that the **first recipient** of the newly established “HCI Medal for Societal Impact” is **Ben Shneiderman**

- Emeritus Distinguished Professor of Computer Science at the University of Maryland
- and founder of their Human-Computer Interaction Lab.



HCI **International** 2022

24<sup>th</sup> International Conference  
on Human – Computer Interaction





# HCII 2022 Keynote Speech



**Ben  
Shneiderman**

Dept. of Computer Science  
&  
Human-Computer Interaction Lab  
University of Maryland  
College Park, MD, USA

**“Human-Centered AI: A New Synthesis”**

# HCII 2022 Keynote Speech



**Ben  
Shneiderman**

We would like to thank Ben Shneiderman for his enlightening speech

**“Human-Centered AI: A New Synthesis”**

which was based on his recent book



30% discount using  
promo code **"ASPROMP8"**




# Announcing HCII 2023



25th INTERNATIONAL CONFERENCE ON  
HUMAN-COMPUTER INTERACTION

Copenhagen, Denmark

**23 - 28 July 2023**

 <http://2023.hci.international>







 **HCI International 2023**  
23 - 28 July • Copenhagen, Denmark

Hope to see you all in  
**Copenhagen !...**