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CHI'20

Extended Abstracts of the 2020 CHI Conference on
Human Factors in Computing Systems

Sponsored by:

ACM SIGCHI

General Chairs:

Regina Bernhaupt, Eindhoven University of Technology, Netherlands
Florian 'Floyd' Mueller, Monash University, Australia

Technical Program Chairs:

Joanna McGrenere, University of British Columbia, Canada
Andy Cockburn, University of Canterbury, New Zealand



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General Chairs' Welcome

Dear CHI 2020 community,

After the CHI 2020 Proceedings were assembled, but before the actual CHI 2020 conference occurred, it was decided by the General Chairs, together with the CHI Steering Committee, the SIGCHI Executive Committee and ACM representatives to not physically hold CHI 2020 in Honolulu, Hawai'i, USA. This was triggered by the declaration of the WHO that the Covid-19 (Coronavirus/Sars-Cov-2) epidemic was considered a pandemic. The health of our community is the biggest asset we have. Our thoughts are with everyone affected, and we want to express our heartfelt best wishes.

This was sad news, but these uncertain times demand decisions that are hard to anticipate. We would like to express our appreciation for our CHI 2020 committee and everyone who has worked so tirelessly with us for so many hours on our conference preparation. Thank you so much for all of the work you did.

We are very sad that the conference will not happen with all of us present in Hawai'i. We would have liked to meet all of you there to discuss HCI and have a get together on the beach.

We believe these proceedings are only a small representation of all that CHI 2020 would have looked like if it had been held as originally planned, and we empathise with all of the authors, attendees and exhibitors who were keen on coming together to be part of what promised to be an incredible conference. Nevertheless, the technical content is here to stay and archived for future readers to learn from and enjoy. We invite you to engage with this amazing content assembled from work meeting the highest standards in the field and produced by some of the best authors in the world.

Our best wishes go out to everyone affected.

Your General Chairs,

Regina & Floyd

Aloha!

We are excited to welcome you to CHI 2020 in beautiful Honolulu, Hawai'i!

Although CHI has strong origins in the USA, it has never been to Hawai'i. We see this rather “unusual” location for a conference as both an acknowledgement of the role underrepresented regions play in the field of Human-Computer Interaction as well as a symbol for more outreach to the rest of the world.

The ACM CHI Conference on Human Factors in Computing Systems is the premier international conference of Human-Computer Interaction. CHI — pronounced “kai” — is a place where researchers and practitioners gather from across the world to discuss the latest in interactive technology. We are a multicultural community from highly diverse backgrounds who together investigate new and creative ways for people to interact.

CHI has a rich history of bringing together people from different disciplines, cultures, sectors, communities and backgrounds. Through CHI, designers, researchers and practitioners come together with the common purpose of creating technology that works for people and society.

We are increasingly realizing how our technology use is changing how we delineate work and pleasure, how it is advancing our productivity but at the same time threatening our wellbeing. In choosing a beautiful location like Hawai'i, we hope we highlight the importance of work-life balance and also elicit new discussions on such critical perspectives about the future of interactive technology.

Thanks to our massive numbers of volunteers and help from ACM and its SIGCHI members, we are excited to present a vibrant technical and social programme for you to experience. Over six days, participants can join and continue to engage with the CHI community and explore technology and world-class research, and engage in discussions with designers, researchers, students, and practitioners!

Ho'omaluō means “to conserve; to use or manage wisely” in the Hawaiian language. One of our goals for CHI 2020 is to make more sustainable choices wherever we can, recognising, of course, that any travel, especially to locations like ours, has a significant impact on the environment. Working with the Sustainability Chairs, we have chosen recycled, biodegradable or eco-friendly products and engaged with local suppliers, wherever possible. We have implemented options to reduce travel related to the conference organisation by using videoconference meetings as much as possible. We have worked with the CHI Steering and Executive Committee to identify future opportunities to reduce travel and to reduce the number of meetings. We have removed the conference bag and gifts by default and encouraged the selection of more sustainable food choices (including the decision not to serve red meat). We have also chosen reusable or compostable crockery and cutlery where possible and are donating any remaining food to a homeless shelter to avoid food waste.

Furthermore, we have chosen to locate all activities in or near the Convention Centre and negotiated deals with hotels nearby to reduce the need for transportation. The Convention Centre itself is the first and only public assembly convention centre to earn LEED v.4 O+M Gold Certification in the United States. In the spirit of Ho'omaluō, we have also decided to set the default temperature in the venue higher to reduce air condition energy usage.

A particular highlight is the Interactivity programme, which will be launched at the Reception on Monday evening, giving a live glimpse into the future with hands-on prototypes, design experiences as well as inspirational technologies.

We are also excited to continue the commitment to making CHI, and CHI content, more widely accessible. We will be live-streaming even more paper sessions. We also provide a nursing room, all-gender bathrooms, badge pronouns, a desensitization room and a prayer room.

We welcome you to Hawai'i and our hope is that all attendees grow closer together as a part of the CHI community.

Mahalo!



Regina Bernhaupt (*Eindhoven University of Technology, The Netherlands*)

Florian 'Floyd' Mueller (*Monash University, Australia*)

General Chairs, CHI 2020

David Verweij (*Newcastle University, UK*)

Josh Andres (*IBM Research & Exertion Games Lab, Monash University, Australia*)

Assistants to the General Chairs

Technical Program Chairs' Welcome

The CHI 2020 conference will kick off with a weekend packed with 39 workshops, 3 symposia, and the doctoral colloquium.

The main conference will run from Monday to Thursday across 20 parallel sessions that will include papers, panels, journal presentations, case studies, special interest groups, courses, video showcase, alt.chi, and the popular student research and student game competitions. This year most presentations are limited to 15 minutes, allowing each delegate to see more (and miss less) of the conference.

This comprehensive program is included in the Proceedings and Extended Abstracts of the conference. As with previous years, there are two fundamental categories of contributions that become archived in the ACM Digital Library. Papers are the most rigorously peer reviewed and are considered the most prestigious material presented at the conference. The remaining categories of work are collected in the Extended Abstracts. These include juried and curated contributions, evaluated by experts in the field, and reflect the breadth of research, design, education, artistic, scientific exploration and engineering activity within the HCI community.

Considerable effort went into making the program as accessible as possible. In addition to having the proceedings available in HTML, as was done last year, we also worked closely with the accessibility chairs and volunteers to ensure that all PDFs have tags, metadata and figure descriptions crucial for people using screen readers.

Making this program possible was a challenging and rewarding experience, involving the work of thousands of volunteers. CHI received 4,854 submissions and accepted 1365. For papers, we received 3,126 submissions (the 2019 conference received 2,958) which were rigorously reviewed, resulting in 758 accepted papers (acceptance rate 24.3%). In addition, 52 journal papers will be presented at the conference.

As always, we give a huge thanks to the members of the conference organising committee, the members of the programme committee who wrote many, many reviews and discussed papers at length, and the abundance of external reviewers across many of the conference tracks. In total, 11,729 reviews were written for the CHI papers track alone.

We also wish to thank the staff at Sheridan Communications (particularly Lisa Tolles) who worked extremely hard to ensure that all submissions were processed. Finally, thanks to everyone who contributed to the program – your work is hugely appreciated!

We hope you enjoy the technical program and it inspires you.



**Joanna McGrenere & Andy Cockburn
Ignacio Avellino & Alix Goguey**
Technical Program Chair Team, CHI 2020

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Suleman Shahid (*Lahore University of Management Sciences*)
Akihiro Matsufuji (*Tokyo Metropolitan University*)
Chat Wacharamantham (*University of Zürich*)
Toni-Jan Keith P. Monserrat (*University of the Philippines Los Baños*)
Keyur Sorathia (*Indian Institute of Technology (IIT) Guwahati*)
Masitah Ghazali (*Universiti Teknologi Malaysia*)
Shio Miyafuji (*Tokyo Institute of Technology*)
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Kazuyuki Fujita (*Tohoku University*)
A. B. M. Alim Al Islam (*Bangladesh University of Engineering and Technology*)
Eunice Sari (*UX Indonesia*)
Murni Mahmud (*Islamic International University Malaysia*)
Adi Tedjasaputra (*UX Indonesia*)
Juho Kim, Uichin Lee (*KAIST*)
Thippaya Chintakovid (*Chulalongkorn University*)
Sheng-Ming Wang (*National Taipei University of Technology*)
Zhengjie Liu (*Dalian Maritime University*)
Xiangmin Fan (*Institute of Software, Chinese Academy of Sciences*)
Ellen Yi-Luen Do (*University of Colorado Boulder*)
Yoshifumi Kitamura (*Tohoku University*)
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Bing-Yu Chen (*National Taiwan University*)

Sym02: HCI Across Borders and Sustainable Development Goals

Neha Kumar (*Georgia Institute of Technology*)
Vikram Kamath Cannanure (*Carnegie Mellon University*)
Dilrukshi Gamage (*University of Moratuwa*)
Annu Sabie Prabhakar (*University of Cincinnati*)
Christian Sturm (*Hamm-Lippstadt University of Applied Sciences*)
Cuauhémoc Rivera Loaiza (*Universidad Michoacana*)
Dina Sable (*University of Toronto*)
Md. Moinuddin Bhuiyan (*Grameenphone Ltd.*)
Mario A. Moreno Rocha (*University of St. Andrews*)

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Craig M. MacDonald (*Pratt Institute*)
Colin M. Gray (*Purdue University*)
Leigh Ellen Potter (*Griffith University*)
Anna Vasilchenko (*Newcastle University*)
Jaisie Sim (*University of Toronto*)
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Kellie Morrissey (*University of Limerick*)
Patrick Olivier (*Monash University*)

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Daniel Vogel (*University of Waterloo*)

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Abdallah El Ali (*Centrum Wiskunde & Informatica (CWI)*)
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Pete Denman (*Intel Corp.*)
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Walter S. Lasecki (*University of Michigan*)
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Philippe Palanque (*University Toulouse III*)
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Josh Andres (*IBM Research Australia & Monash University*)
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Anna Lisa Martin-Niedecken (*Zurich University of the Arts*)
Paul Strohmeier (*Saarland University*)
Bruno Fruchard (*Saarland Informatics Campus*)
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Elisa D. Mekler (*Aalto University*)
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Josef Wiemeyer (*Technische Universität Darmstadt*)
Nadia Berthouze (*University College London*)
Kai Kunze (*Keio University*)
Thanassis Rikakis, Aisling Kelliher (*Virginia Institute of Technology*)
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Bryan Dosono (*Airbnb, Inc.*)
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Lynn Dombrowski (*Indiana University–Purdue University Indianapolis*)
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 Yan Wang (*RMIT University*)
- DC19: All Experiences Matter: Designing Safety Tools for Vulnerable Groups in the Caribbean**
 Daricia Wilkinson (*Clemson University*)
- DC20: Advisor: Agent-based Intervention Leveraging Individual Differences to Support Mental Wellbeing of College Students**
 Mohan Zalake (*University of Florida*)

Case Studies

- CS01: The Interaction Attention Continuum: An Education Case Study**
 Misha Croes, Michel van Dartel (*Avans University of Applied Sciences*)
- CS02: Case Study: Creating Embodied Interaction with Learning Intangible Cultural Heritage through WebAR**
 Peng Tan (*Guangdong University of Technology*)
 Damian Hills (*Griffith University*)
 Yi Ji, Kaiping Feng (*Guangdong University of Technology*)
- CS03: Feeling Your Way Around: Assessing the Perceived Utility of Multi-Scale Indoor Tactile Maps**
 Viet Trinh, Roberto Manduchi (*University of California, Santa Cruz*)
- CS04: Evaluation of Natural User Interfaces in the Creative Industries**
 Georg Volkmar, Thomas Muender, Dirk Wenig, Rainer Malaka (*University of Bremen*)
- CS05: Conducting HCI Research with People Living with HIV Remotely: Lessons Learned and Best Practices**
 Juan F. Maestre, K. Cassie Kresnye (*Indiana University*)
 Julia C. Dunbar (*University of Washington*)
 Ciabhan L. Connelly, Katie A. Siek, Patrick C. Shih (*Indiana University*)
- CS06: Co-Design Futures for AI and Space: A Workbook Sprint**
 Henrik Mucha, Dennis Mevißen, Sebastian Robert (*Fraunhofer IOSB*)
 Ricarda Jacobi, Kirsten Meyer (*OWL University of Applied Sciences and Art*)
 Winfried Heusler, Daniel Arztmann (*Schüco International KG*)
- CS07: Design Systems: A Community Case Study**
 Jude Yew, Gregorio Convertino, Abla Hamilton, Elizabeth Churchill (*Google Inc.*)
- CS08: Evaluation of Technology Accessibility and User Sentiment in Learning Through Virtual Reality Modality**
 Andrea Mower, Rosalyn Nguyen (*PwC Emerging Technology Lab*)
 Kevin Frank (*University of Illinois*)
- CS09: The ECHOS Platform to Enhance Communication for Nonverbal Children with Autism: A Case Study**
 Kristina T. Johnson, Jaya Narain, Craig Ferguson, Rosalind Picard, Pattie Maes (*Massachusetts Institute of Technology*)

CS10: Word Order Communicates User Intent in Search Queries

Anastasia Smirnova (*San Francisco State University*)

CS11: KI/OSK: Practice Study of Load Sensitive Board for Farmers Market

Koichi Yoshino (*Toppan Printing Co., Ltd.*)

Takatoshi Yoshida (*MIT MediaLab*)

Xiaoyan Shen (*MIT ACT*)

Yo Sasaki (*NHK (Japan Broadcasting Corporation)*)

Ken Nakagaki, Hiroshi Ishii (*MIT MediaLab*)

CS12: Discovering Narratives: Multi-sensory Approach Towards Designing with People with Dementia

Elaine Czech, Mina Shibasaki, Keitaro Tsuchiya (*Keio University*)

Roshan L. Peiris (*Rochester Institute of Technology*)

Kouta Minamizawa (*Keio University*)

CS13: Building a Program that Rewards and Gives back to Drivers

Eduardo Gomez Ruiz (*Uber B. V.*)

Saswati Saha Mitra (*Uber London Limited*)

Shaun Lind, Shyna Khurana, Rafael Conte, Adam Williams (*Uber Technologies, Inc.*)

CS14: Tele-robotic Interface Design in Context: A Case for Recursive Design

Evan Barba, Anthony Lioon, Christopher Miller, Yasir Majeed Khan (*Georgetown University*)

CS15: Teleoperated Robot Acting Autonomous for Better Customer Satisfaction

Jun Baba, Song Sichao (*CyberAgent, Inc.*)

Junya Nakanishi, Itaru Kuramoto, Kohei Ogawa, Yuichiro Yoshikawa, Hiroshi Ishiguro

(*Osaka University*)

CS16: Design and Evaluation of a VR Training Simulation for Pump Maintenance

Frederik Winther, Linoj Ravindran, Kasper Paabøl Svendsen, Tiare Feuchtner (*Aarhus University*)

CS17: Improving Immersive Experiences for Visitors with Sensory Impairments to the Aquarium of the Pacific

Brid O'Conaill, James Provan (*Ultraleap*)

Jerry Schubel (*Aquarium of the Pacific*)

Daniel Hajas, Marianna Obrist (*University of Sussex*)

Loïc Corenthy (*Ultraleap*)

CS18: Investigating Novel BCI Displays that Support Personalised Engagement and Interpersonal Connections

Betty Sargeant, Justin Dwyer, Florian Floyd Mueller (*Monash University*)

CS19: Post-Hackathon Learning Circles: Supporting Lean Startup Development

Tina Chan (*University of Waterloo*)

Josephine McMurray, AnneMarie Levy (*Wilfrid Laurier University*)

Heidi Sveistrup (*Bruyère Research Institute*)

James Wallace (*University of Waterloo*)

CS20: Intelligent Mobility Cane – Lessons Learned from Evaluation of Obstacle Notification System using a Haptic Approach

Jagannadh Pariti, Vinita Tibdewal, Tae Oh (*Rochester Institute of Technology*)

CS21: Children with Autism and Technology Use: A Case Study of the Diary Method

Cynthia Putnam, Bamshad Mobasher (*DePaul University*)

CS22: Iterative Participatory Design for VRET Domain Transfer: From Combat Exposure to Military Sexual Trauma

Sharon Mozgai, Arno Hartholt, Andrew Leeds, Albert 'Skip' Rizzo (*University of Southern California*)

CS23: Experiences from Extreme Citizen Science: Using Smartphone-based Data Collection Tools with Low-literate People

Artemis Skarlatidou, Fabien Moustard, Michalis Vitos (*University College London*)

CS24: Sketch-based Video: Storytelling for UX Validation in AI Design for Applied Research

Ana Fucs, Juliana Jansen Ferreira, Vinícius Segura, Beatriz de Paulo, Rogério de Paula, Renato Cerqueira (*IBM Research*)

- CS25: Quantifying Sign Avatar Perception: How Imperfect is Insufficient?**
Heike Brock, Shigeaki Nishina (*Honda Research Institute Japan Co., Ltd.*)

- CS26: HCI and mHealth Wearable Tech: A Multidisciplinary Research Challenge**
Lucretia Williams, Gillian R. Hayes, Yuqing Guo, Amir Rahmani, Nikil Dutt
(*University of California, Irvine*)

- CS27: Rethinking Consumer Email: The Research Process for Yahoo Mail 6**
Frank Bentley, Josh Jacobson, Charlotte Sperling, Shiv Shankar, Chris Royer, Ian McCarthy
(*Yahoo/Verizon Media*)

- CS28: News Provenance: Revealing News Text Reuse at Web-Scale in an Augmented News Search Experience**
Nathan Evans, Darren Edge, Jonathan Larson, Christopher White (*Microsoft Research*)

- CS29: The Effect of Positive and Negative Goal Orientation and Player Embodiment in Assessment Games**
Lindsay Grace (*University of Miami*)
G. Tanner Jackson, Blair Lehman (*Educational Testing Service*)

- CS30: How's Your Day Look? The (Un)Expected Sociolinguistic Effects of User Modeling in a Conversational Agent**
Libby Ferland, Wilma Koutstaal (*University of Minnesota*)

- CS31: Completing a Crowdsourcing Task Instead of an Assignment; What do University Students Think?**
Vassilis-Javed Khan, Konstantinos Papangelis, Panos Markopoulos
(*Eindhoven University of Technology*)

- CS32: Creating and Evaluating a Goal Setting Prototype for MOOCs**
Nathan Magyar, Xuenan Xu, Molly Maher (*University of Michigan*)

- CS33: Pilot Case Study in Games as Polling Systems, Generating Knowledge about Fake News**
Lindsay Grace (*University of Miami*)

- CS34: Adapting User Experience Research Methods for AI-Driven Experiences**
Clara Kliman-Silver, Oliver Siy, Kira Awadalla, Alison Lentz, Gregorio Convertino, Elizabeth Churchill (*Google Inc.*)

- CS35: Balancing Learner Experience and User Experience in a Peer Feedback Web Application for MOOCs**
Nathan Magyar, Stephanie R. Haley (*University of Michigan – Ann Arbor*)

- CS36: Making Sense of Search: Using Graph Embedding and Visualization to Transform Query Understanding**
Jonathan Larson, Darren Edge, Nathan Evans, Christopher White (*Microsoft Research*)

Course Overviews

- C01: Brainstorming 101: An Introduction to Ideation Techniques**
Sarah Sulteri (*Fraunhofer Institute for Applied Information and Technology FIT & RWTH Aachen University*)

- C02: HCI History and Today's Challenges—What Was Anticipated, What Was Not**
Jonathan Grudin (*Microsoft*)

- C03: Dealing with Ethical Challenges in HCI Fieldwork**
Cosmin Munteanu (*University of Toronto Mississauga*)
Jenny Waycott (*The University of Melbourne*)
Roisin McNaney (*Bristol University*)

- C04: Inbodied Interaction 101: A Human Physiology-to-Neurology Informed Approach to HCI Research and Design**
m.c. schraefel (*University of Southampton*)
- C05: Inbodied Interaction 102: Understanding the Selection and Application of Non-invasive Neuro-physio Measurements for Inbodied Interaction Design**
m.c. schraefel (*University of Southampton*)
Aaron Tabor (*University of New Brunswick*)
Josh Andres (*IBM Research Australia*)
- C07: How to Write CHI Papers, Fourth Edition**
Lennart E. Nacke (*University of Waterloo*)
- C08: Online Survey Methodology for User Experience Research: A Framework for Utility and Quality**
Mario Callegaro (*Google Cloud*)
Ana Villar (*Facebook*)
Aaron Sedley (*Google Inc.*)
- C09: Rapid Prototyping for AR/VR Experiences**
Mark Billinghurst (*University of South Australia*)
- C10: So You Think You Can't Draw? A Hands-on Introductory Course on Sketching in HCI Techniques**
Makayla Lewis (*University of the Arts London*)
Miriam Sturdee (*Lancaster University*)
- C11: Sketching in HCI: Research Practice & Publication (Advanced)**
Miriam Sturdee (*Lancaster University*)
Makayla Lewis (*University of the Arts London*)
- C12: Practical UX Research Methodologies: Contextual Inquiry**
Sarah E. Garcia (*UEGroup*)
- C13: Introduction to Re-Programmable Color-Changing Materials**
Yuhua Jin, Isabel Qamar, Michael Wessely, Stefanie Mueller (*Massachusetts Institute of Technology*)
- C14: How to: Peer Review for CHI (and Beyond)**
Max L. Wilson (*University of Nottingham*)
- C15: Introduction to AI Fairness**
Yunfeng Zhang, Rachel K. E. Bellamy, Moninder Singh, Q. Vera Liao (*IBM Research AI*)
- C16: Machine Learning for Non-Programmers**
Dwijesh J. Shastri (*University of Houston - Downtown*)
- C17: Prototyping Transparent and Flexible Electrochromic Displays**
Markus Löchtefeld, Walther Jensen (*Aalborg University*)
Jonna Häkkilä, Ashley Colley, Heiko Müller (*University of Lapland*)
- C18: Future Cars as a Space for Work & Play**
Bastian Pfleging (*Eindhoven University of Technology*)
Andrew L. Kun (*University of New Hampshire*)
Orit Shaer (*Wellesley College*)
- C19: Exploring Human-Drone Interaction**
Jessica R. Cauchard (*Ben Gurion University of the Negev*)
- C20: Additional Insights: Using Eye Tracking and Brain Sensing in Virtual Reality**
Ann McNamara, PhD, Ranjana Mehta (*Texas A&M University*)
- C21: Designing for Sensory Appreciation: Cultivating Somatic Approaches to Experience Design**
Thecla Schiphorst (*Simon Fraser University*)
Lian Loke (*University of Sydney*)
Kristina Höök (*KTH Royal Institute of Technology*)

C22: Make This! Introduction to Electronics Prototyping Using Arduino

Nikolas Martelaro (*Carnegie Mellon University*)
J.D. Zamfirescu-Pereria (*University of California, Berkeley*)
David Goedicke, Wendy Ju (*Cornell Tech*)

C23: Usability Testing: Creative Techniques for Answering Your Research Questions

Sarah E. Garcia (*UEGroup*)

C24: Introduction to Explainable AI

Q. Vera Liao, Moninder Singh, Yunfeng Zhang, Rachel K.E. Bellamy (*IBM Research AI*)

SIG Abstracts

SIG01: Sign Language Interfaces: Discussing the Field's Biggest Challenges

Danielle Bragg, Meredith Ringel Morris (*Microsoft Research*)
Christian Vogler, Raja Kushalnagar (*Gallaudet University*)
Matt Huenerfauth (*Rochester Institute of Technology*)
Hernisa Kacorri (*University of Maryland*)

SIG02: Automated Cars as Living Rooms and Offices: Challenges and Opportunities

Clemens Schartmüller (*Technische Hochschule Ingolstadt & Johannes Kepler University*)
Sayan Sarcar (*University of Tsukuba*)
Andreas Riener (*Technische Hochschule Ingolstadt*)
Andrew L. Kun (*University of New Hampshire*)
Orit Shaer (*Wellesley College*)
Linda Ng Boyle (*University of Washington*)
Shamsi Iqbal (*Microsoft Research*)

SIG03: Fostering HCI Research in, by, and for Latin America

Adriana Alvarado Garcia (*Georgia Institute of Technology*)
Karla Badillo-Urquiza (*University of Central Florida*)
Mayra D. Barrera Machuca (*Simon Fraser University*)
Franceli L. Cibrian (*University of California, Irvine*)
Mariamela Ciolfi Felice (*KTH Royal Institute of Technology*)
Laura S. Gaytán-Lugo (*Universidad de Colima*)
Diego Gómez-Zará (*Northwestern University*)
Carla F. Griggio (*The University of Tokyo*)
Monica Perusquia-Hernandez (*NTT Communication Science Laboratories*)
Soraia Silva-Prietch (*Universidade Federal de Mato Grosso*)
Carlos E. Tejada (*University of Copenhagen*)
Marisol Wong-Villacres (*Escuela Superior Politecnica del Litoral*)

SIG04: Collaborative Learning & Co-Creation in XR

Anna Vasilchenko (*Newcastle University*)
Jie Li (*Centrum Wiskunde & Informatica*)
Bektur Ryskeldiev, Sayan Sarcar, Yoichi Ochiai (*University of Tsukuba*)
Kai Kunze (*Keio University*)
Iulian Radu (*Harvard University*)

SIG05: Challenges and Opportunities of Leveraging Intelligent Conversational Assistant to Improve the Well-being of Older Adults

Korok Sengupta (*University of Koblenz-Landau*)
Sayan Sarcar (*University of Tsukuba*)
Alisha Pradhan (*University of Maryland*)
Roisin McNaney (*University of Bristol*)
Sergio Sayago (*Universitat de Lleida*)
Debaleena Chattopadhyay (*University of Illinois at Chicago*)
Anirudha Joshi (*Indian Institute of Technology Bombay*)

SIG06: Queer in HCI: Supporting LGBTQIA+ Researchers and Research Across Domains

Michael A. DeVito, Ashley Marie Walker, Amy J. Ko (*Northwestern University*)
Caitlin Lustig (*University of Washington*)
Katta Spiel (*KU Leuven*)
Alex A. Ahmed (*Northeastern University*)
Kimberley Allison (*Macquarie University*)
Morgan Scheuerman, Briana Dym, Jed R. Brubaker (*University of Colorado Boulder*)
Ellen Simpson (*Syracuse University*)
Naveen Bagalkot (*Srishti Institute of Art, Design, & Technology*)
Noopur Raval (*University of California, Irvine*)
Michael Muller (*IBM Research*)
Jennifer Rode (*University College London*)
Mary L. Gray (*Microsoft Research*)

SIG07: SketCHI 3.0: Hands-On Special Interest Group on Sketching Education in HCI

Miriam Sturdee (*Lancaster University*)
Makayla Lewis (*University of the Arts London*)
Gonzalo Gabriel Méndez (*Escuela Superior Politécnica del Litoral*)
Jess Phoa (*Chartbeat*)
Thuong Hoang (*Deakin University*)
Sheelagh Carpendale (*Simon Fraser University*)

SIG08: Child-Computer Interaction SIG: Looking Forward After 18 Years

Alissa Antle (*Simon Fraser University*)
Juan Pablo Hourcade (*University of Iowa*)
Paulo Blikstein (*Columbia University*)
Jerry Alan Fails (*Boise State University*)
Franca Garzotto (*Politecnico di Milano*)
Ole Sejer Iversen (*Aarhus University*)
Panos Markopoulos (*Eindhoven University of Technology*)
Glenda Revelle (*University of Arkansas*)

SIG09: User Experience Design Patterns for Pseudo-Sentient Agents

Daniel Steinbock, Sridhar Rao (*Facebook Inc.*)

SIG10: EMICS'20: Eye Movements as an Interface to Cognitive State

Xi Wang (*TU Berlin*)
Zoya Bylinskii (*Adobe Inc.*)
Monica Castelhano (*Queen's University*)
James Hillis (*Facebook Reality Labs*)
Andrew T. Duchowski (*Clemson University*)

SIG11: Games and Play SIG: Shaping the Next Decade of Games & HCI Research

Samantha N. Stahlke, Pejman Mirza-Babaei (*Ontario Tech University*)
Kathrin Gerling (*KU Leuven*)
Z O. Toups (*New Mexico State University*)
Daniel Johnson (*Queensland University of Technology*)
Regan L. Mandryk (*University of Saskatchewan*)

SIG12: Designing Digital Payments for Next Billion Users

Pranjal Jain (*Srishti Institute of Art, Design and Technology & Dvara Research*)
Samia Ibtasam (*University of Washington*)
Devanuj K. Balkrishnan (*Indian Institute of Technology Bombay*)
Nova Ahmed (*North South University*)
Matt Jones (*Swansea University*)
Suleiman Shahid (*Lahore University of Management Sciences*)
Lubna Razaq (*Information Technology University*)
Mark Perry (*Brunel University London*)
Anirudha Joshi (*Indian Institute of Technology Bombay*)

Student Research Competition

SRC01: Facts and Stories in Phishing Training: A Replication and Extension

John Marsden, Zachary Albrecht, Paula Berggren, Jessica Halbert, Kyle Lemons, Anthony Moncivais, Matthew Thompson (*Abilene Christian University*)

SRC02: Integrating Discussion and Summarization in Collaborative Writing

Sunny Tian (*Massachusetts Institute of Technology*)

SRC03: ARchemist: Aiding Experimental Chemistry Education Using Augmented Reality Technology

Mikołaj P. Woźniak (*Lódź University of Technology*)

SRC04: Knowledge Maps: Building Conceptual CSS Knowledge Through Comparison

Daniel Zhu, Salome Wairimu Kariuki (*Northwestern University*)

SRC05: Emote ~ Theatre and Movement Workshops as Research Tools

Tanya Ballal (*Srishti Institute of Art, Design and Technology*)

SRC06: Aranyani.id – The Design of Reforestation Funding Program Using Mobile Advertising Application

Kairania Qalbi, Gita Prasulistiyyono Putra (*Universitas Gadjah Mada*)

SRC07: The UX of Things: Exploring UX Principles to Inform Security and Privacy Design in the Smart Home

George Chalhoub (*University of Oxford*)

SRC08: Medi-Torch: A New Framework for User-friendly Hepatobiliary Cancer Guidelines for Patients

Toshiharu Igarashi (*The University of Tokyo*)

SRC09: Helping Low Literate Parents Engage with their Children's Learning

Prachi Tank (*Indian Institute of Technology Bombay*)

SRC10: Accessible Spatial Audio Interfaces: A Pilot Study into Screen Readers with Concurrent Speech

Rishi Vanukuru (*Indian Institute of Technology Bombay*)

Adam Lewczuk, Krzysztof Adamkiewicz, Jakub Józiewicz, Maya Malaya, Piotr Ładoński (*Lódź University of Technology*)

SRC11: Facilitating Physical-Computer System Design through Data-Driven Natural-Language Interaction

Taizhou Chen (*City University of Hong Kong*)

SRC12: Fast Interactive Design of Scatterplots for Large Data Set Visualisation

Simo Santala (*Aalto University*)

SRC13: Emotion Recognition based BCI using Channel-wise Features

Longbin Jin (*Konkuk University*)

SRC14: Enhancing Social Attention Using Eye-Movement Modeling and Simulated Dyadic Social Interactions

Catherine A. Bacos (*University of Nevada, Las Vegas*)

Student Game Competition

SGC01: Lost in Spaze: An Audio Maze Game for the Visually Impaired

Alexandra Adkins, Kristopher Kohm, Rui Zhang, Nicholas Gustafson (*Clemson University*)

SGC02: TimeBOMB: An Interactive Game Station Showcasing the History of Computer Games

Severin Engert, Remke Albrecht, Constantin Amend, Felix Meyer (*Technische Universität Dresden*)

SGC03: Safecracker: Exploring Immersion Through Audio and Object-Based Controllers

Mary Jo Dubina, Henry Duhaime, Kelsie Thomas (*Georgia Institute of Technology*)

- SGC04: HapTech: Exploring Haptics in Gaming for the Visually Impaired**
Angel Walia, Prakhar Goel, Varnika Kairon, Mayank Jain
(*Indraprastha Institute of Information Technology, Delhi*)
- SGC05: Sophroneo: Fear not. A VR Horror Game with Thermal Feedback and Physiological Signal Loop.**
Kirill Ragozin, Dingding Zheng, George Chernyshov, Danny Hynds (*Keio University*)
- SGC06: On The Other Side: An Interactive Narrative to Incite Awareness and Empathy Towards Social Effects of Chronic Pain**
Ajmal Shah (*National Institute of Design*)
- SGC07: The Move Maker – Exploring Bodily Preconditions and Surrounding Conditions for Bodily Interactive Play**
Louise Petersen Matjeka (*Norwegian University of Science and Technology*)
- SGC08: Make Some Noise for Nature: A Multisensory Public Display Game Experience**
Roos van Greevenbroek, Emma Kallina, Tobias Klotz, Luke Snitter (*University College London*)
- SGC09: Planet Bug: Promoting Awareness of Declining Insect Populations**
Takeria Blunt, Chalece Delacoudray, Isabel Newsome (*Georgia Institute of Technology*)
- SGC10: Team Bingo: A Game that Increases Physical Activity and Social Interaction for Seniors in a Community Setting**
Szu-Yu Yang, Swaroop John (*Indiana University-Purdue University Indianapolis*)

alt.CHI

- ALT01: CHI 2020: Right Here, Right Now? A bottom-up approach to estimating the carbon emissions from more than twenty years of CHI conference travel.**
Jason T. Jacques (*University of Cambridge*)
- ALT02: An Oldy's Lament: Poem of Resistance and Resilience of the 'Othered' in Technology Colonisation**
Aloha Hufana Ambe, Margot Brereton, Alessandro Soro (*Queensland University of Technology*)
- ALT03: Reflections from the Classroom and Beyond: Imagining a Decolonized HCI Education**
Marisol Wong-Villacres (*Georgia Institute of Technology & Escuela Superior Politécnica del Litoral*)
Adriana Alvarado Garcia (*Georgia Institute of Technology*)
Javier Tibau (*Escuela Superior Politécnica del Litoral*)
- ALT04: Does Siri Have a Soul? Exploring Voice Assistants Through Shinto Design Fictions**
William Seymour, Max Van Kleek (*University of Oxford*)
- ALT05: Eating Computers Considered Harmful**
Kieran Browne, Ben Swift, Terhi Nurmikko-Fuller (*Australian National University*)
- ALT06: What's Your Problem with the Dog Internet?**
Ben Kirman (*University of York*)
Shaun Lawson (*Northumbria University*)
Conor Linehan (*University College Cork*)
- ALT07: Suffering-Centered Design**
Bill Tomlinson (*University of California, Irvine & Victoria University of Wellington*)
- ALT08: Upon Not Opening The Black Box**
Simy Kaur Gahoonia, Pedro Ferreira, Marisa Cohn, Line Henriksen, Katrine Meldgaard Kjær, Michael Hockenhull, Baki Cakici, Marie Blønd, Rachel Douglas-Jones, Cæcilie Sloth Laursen, Sonja Zell (*IT University of Copenhagen*)
- ALT09: Divining Insights: Visual Analytics Through Cartomancy**
Andrew McNutt (*University of Chicago*)
Anamaria Crisan, Michael Correll (*Tableau Research*)

ALT10: Fatal Error: Artificial Creative Intelligence (ACI)

Mark Amerika, Laura Hyunjhee Kim, Brad Gallagher (*University of Colorado Boulder*)

ALT11: No Hidden Catch, No Strings Attached: Twelve Steps to Cross-Disciplinary Conversations about Technology

Jasmin Niess (*University of Luxembourg*)
Pawel W. Woźniak (*Utrecht University*)

ALT12: Semina Aeternitatis: Using Bacteria for Tangible Interaction with Data

Mirela Alistar (*University of Colorado Boulder*)
Margherita Pevere (*Aalto University*)

ALT13: Envisioning Jewish HCI

Jessica Hammer (*Carnegie Mellon University*)

ALT14: Parareligious-HCI: Designing for ‘Alternative’ Rationality in Rural Wellbeing in Bangladesh

Sharifa Sultana (*Cornell University*)
Zinnat Sultana (*S.M.R. Law College*)
Syed Ishtiaque Ahmed (*University of Toronto*)

ALT15: The Process of Gaining an AI Legibility Mark

Franziska Pillning, Haider Akmal, Paul Coulton, Joseph Lindley (*Lancaster University*)

ALT16: Children in 2077: Designing Children’s Technologies in the Age of Transhumanism

Oğuz ‘Oz’ Buruk (*Tampere University*)
Oğuzhan Özcan (*Koç University*)
Gökçe Elif Baykal (*Aarhus University*)
Tilbe Göksun (*Koç University*)
Selçuk Acar (*Buffalo State College, SUNY*)
Güler Akduman (*Kadir Has University*)
Mehmet Aydin Baytaş (*Chalmers University of Technology*)
Ceylan Beşevli (*Koç University*)
Joe Best (*University of Nottingham*)
Aykut Coşkun, Hüseyin Uğur Genç (*Koç University*)
A. Baki Kocaballi (*Australian Institute of Health Innovation*)
Samuli Laato (*University of Turku*)
Cássia Mota (*Brazil National Institute of Industrial Property*)
Konstantinos Papangelis (*Rochester Institute of Technology*)
Marigo Raftopoulos (*Strategic Innovation Lab*)
Richard Ramchurn (*The University of Nottingham*)
Juan Sádaba (*University of the Basque Country*)
Mattia Thibault (*Tampere University*)
Annika Wolff (*LUT University*)
Mert Yıldız (*Koç University*)

ALT17: Crime Story as a Tool for Scientific and Technological Outreach

Pietro Crovari, Fabio Catania, Franca Garzotto (*Politecnico di Milano*)

ALT18: The Divination of Things by Things

Haider Akmal, Paul Coulton (*Lancaster University*)

ALT19: Lab Counterculture

Jessica Hammer, Alexandra To, Erica Principe Cruz (*Carnegie Mellon University*)

ALT20: Engaging with a CHI Paper Through Embodied Action: A Situated Analysis of “Design for Collaborative Survival”

John Desnoyers-Stewart (*Simon Fraser University*)

ALT21: The Seven Year Glitch: Unpacking Beauty and Despair in Malfunction

Miriam Sturdee, Joseph Lindley (*Lancaster University*)
Regan Harrison (*Independent Scholar*)
Tine Kluth (*Tine Kluth Animation*)

ALT22: EGregor: An Eldritch Privacy Mental Model for Smart Assistants

Christine Geeng (*University of Washington*)
Anonymous Author (*No Info Received*)

ALT23: “I am just terrified of my future” — Epistemic Violence in Disability Related Technology Research

Anon Ymous (*University of Somewhere*)
Katta Spiel (*KU Leuven & University of Vienna*)
Os Keyes (*University of Washington*)
Rua M. Williams (*University of Florida*)
Judith Good (*University of Sussex*)
Eva Hornecker (*Bauhaus-Universität Weimar*)
Cynthia L. Bennett (*Carnegie Mellon University*)

ALT24: Low Power Web: Legacy Design and the Path to Sustainable Net Futures

Max Willis, Julian Hanna (*ITI/LARSyS & Madeira Interactive Technologies Institute*)
Enrique Encinas (*Aalborg University*)
James Auger (*École Normale Supérieure Paris-Saclay*)

Interactivity

INT001: MetaLife: Interactive Installation Based on Liquid Metal Deformable Interfaces

Qiuyu Lu, Danqing Shi, Yingqing Xu, Haipeng Mi (*Tsinghua University*)

INT002: The Roads of Your Veins: Visualizing Map and Vein Data Matching

Yoon Chung Han, Nhat Nguyen (*San José State University*)

INT003: Neo-Noumena

Nathan Semertzidis, Michaela Scary, Josh Andres, Yutika Kulwe, Brahmi Dwivedi (*Monash University*)
Fabio Zambetta (*RMIT University*)
Florian Floyd Mueller (*Monash University*)

INT004: MicroAquarium : An Immersive and Interactive Installation with Living Microorganisms

Kyungwon Lee, Seung Ah Lee, Jaewoo Jung (*Yonsei University*)

INT005: “Vera” – Crossing the Fourth Wall

Krzysztof Pietroszek (*American University*)

INT006: Augmented Displays: Seamlessly Extending Interactive Surfaces With Head-Mounted Augmented Reality

Patrick Reipschläger, Severin Engert, Raimund Dachselt (*Technische Universität Dresden*)

INT007: ARTEMIS: Mixed-Reality Environment for Immersive Surgical Telementoring

Nadir Weibel, Janet Johnson, Thomas Sharkey, Zhuoqun Robin Xu, Enrique Zavala (*University of California, San Diego*)
Konrad Davis (*Naval Medical Center San Diego*)
Danilo Gasques, Ximming Zhang, Michael Yip (*University of California, San Diego*)

INT008: “Megereality”: Leveraging Physical Affordances for Multi-Device Gestural Interaction in Augmented Reality

Shengzhi Wu (*Carnegie Mellon University & Google LLC*)
Daragh Byrne, Molly Wright Steenson (*Carnegie Mellon University*)

INT009: ARLooper: Collaborative Audiovisual Experience with Mobile Devices in a Shared Augmented Reality Space

Sihwa Park (*University of California, Santa Barbara*)

INT010: A Dynamic AI System for Extending the Capabilities of Blind People

Martin Grayson, Anja Thieme, Rita Marques, Daniela Massiceti, Ed Cutrell, Cecily Morrison (*Microsoft Research*)

INT011: Tree Illustrator: Interactive Construction of Tree Visualizations

Guozheng Li, Min Tian, Qinmei Xu (*Peking University*)
Michael J. McGuffin (*École de Technologie Supérieure*)
Xiaoru Yuan (*Peking University*)

INT012: Solar-Powered Server: Designing for a More Energy Positive Internet
Benedetta Piantella, Alex Nathanson, Tega Brain, Keita Ohshiro (*New York University*)

INT013: Bringing Interactivity to Research Papers and Presentations with Chameleon
Damien Masson (*University of Waterloo & Inria*)
Sylvain Malacria (*Inria & University of Lille*)
Edward Lank (*University of Waterloo & Inria*)
Géry Casiez (*Université de Lille, Inria, & University of Waterloo*)

INT014: Demonstrating Rapid Iron-On User Interfaces: Hands-on Fabrication of Interactive Textile Prototypes
Konstantin Klamka, Raimund Dachselt (*Technische Universität Dresden*)
Jürgen Steimle (*Saarland University, Saarland Informatics Campus*)

INT015: Demonstration of G-ID: Identifying 3D Prints Using Slicing Parameters
Mustafa Doga Dogan, Faraz Faruqi, Andrew Day Churchill, Kenneth Friedman, Leon Cheng (*Massachusetts Institute of Technology*)
Sriram Subramanian (*University of Sussex*)
Stefanie Mueller (*Massachusetts Institute of Technology*)

INT016: Demonstration of FoodFab: Creating Food Perceptual Illusions using Food 3D Printing
Parinya Punponganan (*Osaka University*)
Ying-Ju Lin (*National Chiao Tung University*)
Xin Wen (*Massachusetts Institute of Technology*)
Daisuke Iwai, Kosuke Sato (*Osaka University*)
Marianna Obrist (*University of Sussex*)
Stefanie Mueller (*Massachusetts Institute of Technology*)

INT017: Demo of PolySense: How to Make Electrically Functional Textiles
Paul Strohmeier (*Saarland University, Saarland Informatics Campus*)
Cedric Honnet (*Massachusetts Institute of Technology*)
Hannah Perner-Wilson (*Kobakant*)
Marc Teyssier (*Saarland University & Telecom Paris*)
Bruno Fruchard (*Saarland University, Saarland Informatics Campus*)
Ana Baptista (*Universidade Nova de Lisboa*)
Jürgen Steimle (*Saarland University, Saarland Informatics Campus*)

INT018: CurveBoards Demo: Integrating Breadboards into Physical Objects to Prototype Function in the Context of Form
Junyi Zhu, Lotta-Gili Blumberg, Yunyi Zhu, Martin Nisser, Ethan Levi Carlson, Xin Wen, Kevin Shum, Jessica Ayeley Quaye, Stefanie Mueller (*Massachusetts Institute of Technology*)

INT019: ProtoSpray: Combining 3D Printing and Spraying to Create Interactive Displays with Arbitrary Shapes
Ollie Hanton (*University of Bristol*)
Michael Wessely, Stefanie Mueller (*Massachusetts Institute of Technology*)
Mike Fraser (*University of Bath*)
Anne Roudaut (*University of Bristol*)

INT020: Jubilee Demo: An Extensible Machine for Multi-Tool Fabrication
Joshua Vasquez, Hannah Twigg-Smith, Jasper Tran O'Leary, Nadia Peek (*University of Washington*)

INT021: Haptic-go-round: A Surrounding Platform for Encounter-type Haptic in Virtual Reality Experiences
Hsin-Yu Huang, Chih-Wei Ning, Po-Yao (Cosmos) Wang, Jen-Hao Cheng, Lung-Pan Cheng (*National Taiwan University*)

INT022: Crossing the Chasm: Linking with the Virtual World through a Compact Haptic Actuator
Pornthep Preechayasomboon (*University of Washginton*)
Ali Israr (*Facebook Reality Labs*)

INT023: Demonstration of ElastOscillation: A VR Controller Providing 3D Multilevel Feedback for Damped Oscillation

Ching-Wen Hung, Tzu-Chun Wu (*National Taiwan University*)
Hsin-Ruey Tsai (*National Chengchi University*)
Bing-Yu Chen (*National Taiwan University*)

INT024: Demonstration of Drag:on – A VR Controller Providing Haptic Feedback Based on Drag and Weight Shift

André Zenner, Donald Degraen, Florian Daiber, Antonio Krüger
(*German Research Center for Artificial Intelligence (DFKI), Saarland Informatics Campus*)

INT025: Explorations of Wrist Haptic Feedback for AR/VR Interactions with Tasbi

Evan Pezent, Marcia K. O'Malley (*Rice University*)
Ali Israr, Majed Samad, Shea Robinson, Priyanshu Agarwal, Hrvoje Benko, Nicholas Colonnese
(*Facebook Reality Labs*)

INT026: Demonstration of OMOY: A Handheld Robotic Gadget that Communicates with Humans by Using Weight Shifts

Yohei Noguchi, Fumihide Tanaka (*University of Tsukuba*)

INT027: Press'Em: Simulating Varying Button Tactility via FDVV Models

Yi-Chi Liao (*Aalto University*)
Sunjun Kim (*Aalto University, KAIST, & DGIST*)
Byungjoo Lee (*KAIST*)
Antti Oulasvirta (*Aalto University*)

INT028: Demonstrating Kirigami Haptic Swatches for Cut-and-Fold Haptic Feedback Mechanisms

Zekun Chang, Tung D. Ta, Koya Narumi, Heeju Kim, Fuminori Okuya, Dongchi Li,
Kunihiro Kato, Jie Qi (*The University of Tokyo*)
Yoshinobu Miyamoto (*Aichi Institute of Technology*)
Kazuya Saito (*Kyushu University*)
Yoshihiro Kawahara (*The University of Tokyo*)

INT029: Cocode: Co-learner Screen Sharing for Social Translucence in Online Programming Courses

Jeongmin Byun, Jungkook Park, Alice Oh (*KAIST*)

INT030: Living Jiagu : Enabling Constructive Etymology for Chinese Learning

Yong Cheng, Sijia Ma, Jun Chen, Wenhui Guo, Yingying Zhao, Yaolin Chen, Jingtao Wang,
Yushi Jing, Wenli Zhu (*Google Inc.*)

INT031: PneuModule: Using Inflatable Pin Arrays for Reconfigurable Physical Controls on Pressure-Sensitive Touch Surfaces

Changyo Han, Ryo Takahashi, Yuchi Yahagi, Takeshi Naemura (*The University of Tokyo*)

INT032: Soft yet Strong Inflatable Structures for a Foldable and Portable Mobility

Hiroki Sato, Young ah Seong (*The University of Tokyo*)
Ryosuke Yamamura (*Mercari, Inc.*)
Hiromasa Hayashi, Katsuhiro Hata (*The University of Tokyo*)
Hisato Ogata (*Takram, Inc.*)
Ryuma Niwayama, Yoshihiro Kawahara (*The University of Tokyo*)

INT033: Levi-loop: A Mid-Air Gesture Controlled Levitating Particle Game

Rafael Morales González (*Ultraleap Ltd.*)
Euan Freeman (*University of Glasgow*)
Orestis Georgiou (*Ultraleap Ltd.*)

INT034: A 26-Contact Tangible Pen-Like Input Device for Capacitive Displays

Lisa A. Elkin (*University of Washington & University of Waterloo*)
Jean-Baptiste Beau (*University of Waterloo*)
Géry Casiez (*Université Lille, UMR 9189 - CRISyAL & Inria & Institut Universitaire de France (IUF) & University of Waterloo*)
Daniel Vogel (*University of Waterloo*)

INT035: The Rumour Mill: Making the Spread of Misinformation Explicit and Tangible

Nanna Inie (*Lix Technologies & IT University Copenhagen*)
Jeanette Falk Olesen (*Aarhus University*)
Leon Derczynski (*IT University of Copenhagen*)

INT036: A New Audio-Visual Gestural Instrument for Unlocking Creativity

Alon Ilsar (*Monash University*)
Matthew Hughes (*University of Technology Sydney*)

INT037: Puppet Book: Digital Storybook with Back-of-Device Puppeteering Interface for Parent and Child

Bogyeong Kim, Chaeeun Lee, Jung Huh, Woohun Lee (*KAIST*)

INT038: LightSpace: An Interactive, Projection-Mapped (doll)House

Nicole Tan (*Wayfair*)
Johan Ospina (*Princeton University*)
Patrick Clark, Shrenik Sadalgi (*Wayfair*)
Molly Humphreys (*Massachusetts Institute of Technology*)

INT039: Elastic Legs Illusion

Kenri Kodaka, Taiki Anraku, Kansuke Okada, Koyo Mori (*Nagoya City University*)

INT040: A Demonstration of Kilo Hōkū-Implementing Hawaiian Star Navigation Methods in Virtual Reality

Kari Noe, Patrick Karjala, Anna Sikkink, Dean Lodes (*University of Hawai'i at Mānoa*)

INT041: VRsneaky: Stepping into an Audible Virtual World with Gait-Aware Auditory Feedback

Felix Dietz, Matthias Hoppe, Jakob Karolus (*Ludwig Maximilian University of Munich*)
Pawel W. Woźniak (*Utrecht University*)
Albrecht Schmidt, Tonja Machulla (*Ludwig Maximilian University of Munich*)

INT042: Head-Coupled Kinematic Template Matching for Target Selection in Hangry Piggos

Rorik Henrikson, Daniel Clarke, Thomas White, Frances Lai, Michael Glueck, Stephanie Santosa, Daniel Wigdor (*Chatham Labs*)
Tovi Grossman (*University of Toronto*)
Sean Trowbridge, Hrvoje Benko (*Facebook Reality Labs*)

INT043: Selfie Mask: A Face-Capturing HMD with Polarizing Plates

Wataru Yamada (*NTT DOCOMO & University of Tokyo*)
Hiroyuki Hakoda, Hiroyuki Manabe, Daizo Ikeda (*NTT DOCOMO*)
Jun Rekimoto (*The University of Tokyo*)

INT044: RunAhead: Providing Head Scanning based Navigation feedback

Danilo Gallo, Shreepriya Shreepriya, Jutta Willamowski (*Naver Labs Europe*)

INT045: airMorphologies: A Wearable Device for Social Interaction in Air Polluted Environments

Yin Yu (*University of California, Santa Barbara*)

INT046: Shape Sensing using the ShArc Technique

Fereshteh Shahmiri (*Georgia Institute of Technology & Tactual Labs Co.*)
Paul H. Dietz (*Tactual Labs Co.*)

INT047: Demonstrating Wearable Microphone Jamming

Yuxin Chen, Huiying Li, Shan-Yuan Teng, Steven Nagels, Zhijing Li, Pedro Lopes, Haitao Zheng, Ben Y. Zhao (*University of Chicago*)

Awards

award01: SIGCHI Lifetime Research Award Talk: Interdisciplinary Perspectives on Search

Susan T. Dumais (*Microsoft Research*)

award02: SIGCHI Lifetime Research Award Talk: Icons, Metaphor, and End-User Programming

David Canfield Smith (*Interaction Design Foundation*)

award03: SIGCHI Social Impact Award Talk: A Call to Action

Ronald (Ron) M. Baecker (*University of Toronto*)

award04: SIGCHI Social Impact Award Talk — Sustainability and SIGCHI

Bonnie Nardi (*University of California, Irvine*)

award05: SIGCHI Outstanding Dissertation Award: Evaluating Experiences of Autistic Children with Technologies in Co-Design

Katta Spiel (*Vienna University of Technology*)

award06: SIGCHI Outstanding Dissertation Award: Shaping Material Experiences

Paul Strohmeier (*University of Copenhagen & Saarland University, Saarland Informatics Campus*)

Panels

PAN01: The Dark Side of Interaction Design

Yvonne Rogers (*University College London*)

Paul Dourish (*University of California, Irvine*)

Patrick Olivier (*Monash University*)

Margot Brereton (*Queensland University of Technology*)

Jodi Forlizzi (*Carnegie Mellon University*)

PAN02: CHI 2030: The Future is Wide Open

Helena M. Mentis (*University of Maryland, Baltimore County*)

Regan Mandryk (*University of Saskatchewan*)

Tovi Grossman (*University of Toronto*)

Cliff Lampe (*University of Michigan – Ann Arbor*)

Jessica Colnago (*Carnegie Mellon University*)

PAN03: Transparency in Qualitative Research: Increasing Fairness in the CHI Review Process

Poorna Talkad Sukumar (*University of Notre Dame*)

Ignacio Avellino (*Sorbonne Université, CNRS, ISIR*)

Christian Remy (*Aarhus University*)

Michael A. DeVito (*Northwestern University*)

Tawanna R. Dillahunt (*University of Michigan – Ann Arbor*)

Joanna McGrenere (*University of British Columbia*)

Max L. Wilson (*University of Nottingham*)

PAN04: HCI Ethics, Privacy, Accessibility, and the Environment: A Town Hall Forum on Global Policy Issues

Lorraine Kisselburgh (*Purdue University*)

Michel Beaudouin-Lafon (*Université Paris-Saclay*)

Lorrie Cranor (*Carnegie Mellon University*)

Jonathan Lazar (*University of Maryland*)

Vicki L. Hanson (*Association for Computing Machinery*)

PAN05: SurveillanceCapitalism@CHI: Civil Conversation around a Difficult Topic

Alan Borning, Batya Friedman (*University of Washington*)

Jofish Kaye (*Mozilla*)

Cliff Lampe (*University of Michigan – Ann Arbor*)

Volker Wulf (*University of Siegen*)

**PAN06: From Human-Human Collaboration to Human-AI Collaboration:
Designing AI Systems That Can Work Together with People**

Dakuo Wang (*IBM Research*)
Elizabeth Churchill (*Needed*)
Pattie Maes (*Massachusetts Institute of Technology*)
Xiangmin Fan (*Chinese Academy of Science*)
Ben Shneiderman (*University of Maryland*)
Yuanchun Shi (*Tsinghua University*)
Qianying Wang (*Lenovo*)

Late-Breaking Works

LBW001: The Effect of Experience on Persona Perceptions

Joni Salminen (*Qatar Computing Research Institute & University of Turku*)
Soon-gyo Jung (*Qatar Computing Research Institute*)
João M. Santos (*Instituto Universitário de Lisboa (ISCTE-IUL)*)
Shammur Chowdhury (*Qatar Computing Research Institute*)
Bernard J. Jansen (*Qatar Computing Research Institute*)

LBW002: Improvising with Machines – Designing Artistic Non-Human Actors

Matthias Laschke, Robin Neuhaus, Marc Hassenzahl (*University of Siegen*)
Claudius Lazzeroni (*Folkwang University of the Arts*)

**LBW003: Training Technology Probes Across Fitness Practices: Yoga, Circus
and Weightlifting**

Laia Turmo Vidal (*Uppsala University*)
Elena Márquez Segura (*Universidad Carlos III de Madrid*)
Luis Parrilla Bel, Annika Waern (*Uppsala University*)

**LBW004: ModBot: A Tangible and Modular Making Toolkit for Children to Create
Underwater Robots**

Lijuan Liu (*Zhejiang University*)
Junwu Wang (*Hubei University of Technology*)
Hebo Gong, Jiahao Guo, Pinhao Wang, Zhangzhi Wang, Lanqing Huang, Cheng Yao
(*Zhejiang University*)

LBW005: Bardzell’s “Feminist HCI” Legacy: Analyzing Citational Patterns

Shruthi Sai Chivukula, Colin M. Gray (*Purdue University*)

LBW006: Time Perceptions as a Material for Designing New Representations of Time

Mert Yıldız, Aykut Coşkun (*Koç University*)

**LBW007: CoolCraig: A Smart Watch/Phone Application Supporting Co-Regulation
of Children with ADHD**

Max Doan, Franceli L. Cibrian, Agnes Jang, Nihar Khare, Sean Chang, Aiyuan Li, Sabrina Schuck
(*University of California, Irvine*)
Kimberley D. Lakes (*University of California, Riverside*)
Gillian R. Hayes (*University of California, Irvine*)

**LBW008: HomeModAR: A Home Intervention Augmented Reality Tool
for Occupational Therapists**

Hiroo Aoyama, Leila Aflatoony (*Georgia Institute of Technology*)

**LBW009: Crafting Digital Experiences for Feminine Stress-care: An Exploratory
Approach**

Adriana Navarro Sainz, Heekyoung Jung, Annu Sible Prabhakar (*University of Cincinnati*)

**LBW010: Disseminating Scientific Development Through Artistic Practice:
The HCI History Poster**

Aske Mottelson (*University of Copenhagen*)
Anders Thrue Djurslev (*Sort/Hvid*)

LBW011: Revisiting Habitability in Conversational Systems

A. Baki Kocaballi, Enrico Coiera, Shlomo Berkovsky (*Macquarie University*)

LBW012: Subtle Sensing: Detecting Differences in the Flexibility of Virtually Simulated Molecular Objects

Rhoslyn Roebuck Williams, Xan Varcoe (*University of Bristol*)

Becca R. Glowacki (*Goldsmiths, University of London*)

Ella M. Gale, Alexander Jamieson-Binnie, David R. Glowacki (*University of Bristol*)

LBW013: ShrinkyKit: 3D Printing Shrinkable Adaptations for Everyday Objects

Lingyun Sun, Yue Yang, Yu Chen, Jiaji Li (*Zhejiang University*)

Guanyun Wang (*Carnegie Mellon University*)

Ye Tao (*Zhejiang University*)

Lining Yao (*Carnegie Mellon University*)

LBW014: PositionPeak: Stimulating Position Changes During Meetings

Ida Damen, Lidewij Heerkens, Annabel van den Broek, Kimberly Drabbels,

Olga Cherepennikova, Hans Brombacher, Carine Lallemand (*Eindhoven University of Technology*)

LBW015: Smart Habitat: A Wildlife Rehabilitation System

K. Cassie Kresnye, Patrick C. Shih (*Indiana University Bloomington*)

LBW016: VROOM: Virtual Robot Overlay for Online Meetings

Brennan Jones (*University of Calgary*)

Yaying Zhang (*Microsoft*)

Priscilla N. Y. Wong (*University College London & Microsoft Research*)

Sean Rintel (*Microsoft Research*)

LBW017: Teachable Machine: Approachable Web-Based Tool for Exploring Machine Learning Classification

Michelle Carney, Barron Webster, Irene Alvarado, Kyle Phillips (*Google, Inc.*)

Noura Howell (*University of California, Berkeley*)

Jordan Griffith, Jonas Jongejan, Amit Pitaru, Alexander Chen (*Google, Inc.*)

LBW018: SensorNets: Towards Reconfigurable Multifunctional Fine-grained Soft and Stretchable Electronic Skins

Irmandy Wicaksono, Elena Kodama, Artem Dementyev, Joseph A. Paradiso

(*Massachusetts Institute of Technology*)

LBW019: Supporting Circuit Design with a Block-Based, Generator Language

Richard Lin, Rohit Ramesh, Connie Chi, Nikhil Jain, Prabal Dutta, Björn Hartmann

(*University of California, Berkeley*)

LBW020: Otto: An Autonomous School Bus System for Parents and Children

Jackie Ayoub, Brian Mason, Kamari Morse, Austin Kirchner, Naira Tumanyan, Feng Zhou

(*University of Michigan*)

LBW021: Supporting Online Video Learning with Concept Map-based Recommendation of Learning Path

Chien-Lin Tang (*National Chiao Tung University*)

Jingxian Liao, Hao-Chuan Wang (*University of California, Davis*)

Ching-Ying Sung (*University of Washington*)

Yu-Rong Cao, Wen-Chieh Lin (*National Chiao Tung University*)

LBW022: A Virtual Reality Couch Configurator Leveraging Passive Haptic Feedback

André Zenner, Felix Kosmalla, Jan Ehrlich, Philip Hell, Gerrit Kahl, Christian Murlowski

(*German Research Center for Artificial Intelligence (DFKI), Saarland Informatics Campus*)

Marco Speicher (*Deutsche Hochschule für Prävention und Gesundheitsmanagement (DHfPG)*)

Florian Daiber (*German Research Center for Artificial Intelligence (DFKI)*,

Saarland Informatics Campus)

Daniel Heinrich (*FOM University of Applied Science*)

Antonio Krüger (*German Research Center for Artificial Intelligence (DFKI)*,

Saarland Informatics Campus)

LBW023: HUMAINE: Human Multi-Agent Immersive Negotiation Competition

Rahul R. Divekar (*Rensselaer Polytechnic Institute*)

Hui Su (*Rensselaer Polytechnic Institute & IBM Research*)

Jeffrey O. Kephart, Maira Gratti DeBayser, Melina Guerra (*IBM Research*)

Xiangyang Mou, Matthew Peveler, Lisha Chen (*Rensselaer Polytechnic Institute*)

LBW024: Comparing F-Formations Between Humans and On-Screen Agents

Hooman Hedayati, Daniel Szafir (*University of Colorado Boulder*)
James Kennedy (*Disney Research Los Angeles*)

LBW025: Combining Embedded Computation and Image Tracking for Composing Tangible Augmented Reality

Tim Düwel, Nico Herbig, Denise Kahl, Antonio Krüger (*German Research Center for Artificial Intelligence (DFKI), Saarland Informatics Campus*)

LBW026: The Future of Notebook Programming Is Fluid

Mary Beth Kery (*Carnegie Mellon University*)
Donghao Ren, Kanit Wongsuphasawat (*Apple Inc.*)
Fred Hohman (*Georgia Institute of Technology*)
Kayur Patel (*Apple Inc.*)

LBW027: PneuFetch: Supporting Blind and Visually Impaired People to Fetch Nearby Objects via Light Haptic Cues

Liang He (*University of Washington*)
Ruolin Wang (*University of California, Los Angeles*)
Xuhai Xu (*University of Washington*)

LBW028: TAILOR: A Wearable Sleeve for Monitoring Repetitive Strain Injuries

Marceli Wac, Roget Kou, Ali Unlu, Morgan Jenkinson, WeiChen Lin, Anne Roudaut (*University of Bristol*)

LBW029: Reconstructing Traditional Chinese Paintings with Immersive Virtual Reality

Sheng Jin (*Communication University of Zhejiang*)
Min Fan (*Communication University of China*)
Yongchao Wang (*University of Zhejiang*)
Qi Liu (*Center for Digital Media*)

LBW030: Toward Exploratory Design with Stakeholders for Understanding Exergame Design

Aishat Aloba, Gianne Flores (*University of Florida*)
Jaida Langham, Zari McFadden (*Spelman College*)
John Bell (*Louisiana State University*)
Nikita Dagar, Shaghayegh Esmaili, Lisa Anthony (*University of Florida*)

LBW031: Towards a Framework for Designing Playful Gustosonic Experiences

Yan Wang (*Monash University*)
Xian Zhang (*Xiamen University Tan Kah Kee College*)
Zhuying Li (*Monash University*)
Rohit Ashok Khot (*The Royal Melbourne Institute of Technology*)
Florian Floyd Mueller (*Monash University*)

LBW032: Hybrid Settlers - Integrating Dynamic Tiles into a Physical Board Game using Electrochromic Displays

Walther Jensen, Thomas Streubel Kristensen, Christoffer Sand Kirk, Hassan Abdul Hameed, Daniel Bergmann Villadsen, Markus Löchtefeld (*Aalborg University*)

LBW033: PneumoVolley: Pressure-based Haptic Feedback on the Head through Pneumatic Actuation

Sebastian Günther, Dominik Schön, Florian Müller, Max Mühlhäuser, Martin Schmitz (*Technische Universität Darmstadt*)

LBW034: Teaching Responsible Conduct of Research Through an Interactive Storytelling Game

Edward F. Melcer (*University of California, Santa Cruz*)
James Ryan (*BBN Technologies*)
Nick Junius, Max Kreminski (*University of California, Santa Cruz*)
Dietrich Squinkifer (*Independent Artist*)
Brent Hill (*University of Utah*)
Noah Wardrip-Fruin (*University of California, Santa Cruz*)

LBW035: Playing a Serious Game for Earthquake Preparedness: Effects of Resource Richness and Avatar Choice

Erik Nilsen, Elizabeth Safran, Peter Drake, Bryan Sebok (*Lewis and Clark College*)

LBW036: Increasing Video Accessibility for Visually Impaired Users with Human-in-the-Loop Machine Learning

Beste F. Yuksel, Soo Jung Kim, Seung Jung Jin (*University of San Francisco*)

Joshua Junhee Lee (*University of Washington*)

Pooyan Fazli, Umang Mathur, Vaishali Bisht, Ilmi Yoon, Yue-Ting Siu (*San Francisco State University*)

Joshua A. Miele (*Smith-Kettlewell Eye Research Institute*)

LBW037: Designing, Developing, and Evaluating a Global Filter to Work Around Local Interference for Children with Autism

Viseth Sean (*Chapman University*)

Jazette Johnson, Franceli L. Cibrian (*University of California, Irvine*)

Hollis Pass (*Independent Speech-language Pathologist*)

Eliza DelPizzo-Cheng, Sara Jones, Karen Lotich (*Speech and Language Center*)

Brandon Makin, Deanna Hughes, LouAnne Boyd (*Chapman University*)

LBW038: HeliCoach: An Adaptive Orientation and Mobility Training System in a Drone-based 3D Audio Space

Jiangtao Gong, Qicheng Ding, Yu Zhang, Liuxin Zhang, Penghui Xu, Mingming Liu (*Lenovo Research*)

Yingqing Xu (*Tsinghua University*)

Qianying Wang (*Lenovo Research*)

LBW039: Interactive Tactile Map as a Tool for Building Spatial Knowledge of Visually Impaired Older Adults

Dominika Palivcová, Miroslav Macík, Zdeněk Míkovec (*Czech Technical University Prague*)

LBW040: Three Tensions Between Personas and Complex Disability Identities

Emory James Edwards, Cella Monet Sum, Stacy M. Branham (*University of California, Irvine*)

LBW041: Smartphone-Based Assistance for Blind People to Stand in Lines

Seita Kayukawa (*Waseda University*)

Hironobu Takagi (*IBM Research - Tokyo*)

João Guerreiro (*Universidade de Lisboa*)

Shigeo Morishima (*Waseda Research Institute for Science and Engineering*)

Chieko Asakawa (*IBM Research*)

LBW042: Empirical Investigation of Users' Preferred Timing Parameters for American Sign Language Animations

Sedeq Al-khazraji (*Rochester Institute of Technology & University of Mosul*)

Becca Dingman, Matt Huenerfauth (*Rochester Institute of Technology*)

LBW043: Designing a Crowdsourcing System for the Elderly: A Gamified Approach to Speech Collection

Eunjin Seong, Seungjun Kim (*Gwangju Institute of Science and Technology*)

LBW044: Comparing Non-Visual and Visual Information Foraging on The Web

Pooja Upadhyay (*DePaul University*)

LBW045: RelivRing: Reliving Social Activities for People with Dementia

Karlijn van Rijen, Tom Cobbenhagen, Rens Janssen (*Eindhoven University of Technology*)

Maria Olsen (*Technical University of Denmark*)

Rens Brankaert, Maarten Houben, Yuan Lu (*Eindhoven University of Technology*)

LBW046: Designing Educational Materials for a Blind Arduino Workshop

Lauren Race, Claire Kearney-Volpe (*New York University*)

Chancey Fleet (*Data & Society*)

Joshua A. Miele (*Blind Arduino Project*)

Tom Igoe, Amy Hurst (*New York University*)

LBW047: Why Software is Not Accessible: Technology Professionals' Perspectives and Challenges

Rohan Patel, Pedro Breton (*Rochester Institute of Technology*)

Catherine M. Baker (*Creighton University*)

Yasmine N. El-Glaly (*Rochester Institute of Technology & Port Said University*)

Kristen Shinohara (*Rochester Institute of Technology*)

LBW048: CoasterMe: Supporting Informal Workplace Awareness Through the Everyday Behaviour of Drinking

Yilu Shen, Ryan M. Kelly (*The University of Melbourne*)

LBW049: OmniGlobeVR: A Collaborative 360° Communication System for VR

Zhengqing Li (*Tokyo Institute of Technology*)

Liwei Chan (*National Chiao Tung University*)

Theophilus Teo (*University of South Australia*)

Hideki Koike (*Tokyo Institute of Technology*)

LBW050: Consensus Building in Collaborative Sequencing with Visual Awareness

Tae Soo Kim (*KAIST*)

Sungsoo (Ray) Hong (*New York University*)

Nitesh Goyal (*Cornell University*)

Jeongyeon Kim, Juho Kim (*KAIST*)

LBW051: Flippo the Robo-Shoe-Fly: A Foot Dwelling Social Wearable Companion

Ella Dagan, James Fey (*University of California, Santa Cruz*)

Sanoja Kikkeli (*BASIS Independent Silicon Valley*)

Charlene Hoang (*Yerba Buena High School*)

Rachel Hsiao (*Mission San Jose High (NC)*)

Katherine Isbister (*University of California, Santa Cruz*)

LBW052: Cast: A Context-Aware Collaborative Storytelling Platform

Gabriel Caniglia (*Northwestern University*)

LBW053: Concerns of Primary Care Physicians for Video-Based Visits

Dongqi Han, Carman Neustaedter (*Simon Fraser University*)

Zixuan Tan (*Sun Yat-sen University*)

LBW054: Hydrogel-Textile Composites: Actuators for Shape-Changing Interfaces

Michael L. Rivera (*Carnegie Mellon University*)

Jack Forman (*Massachusetts Institute of Technology*)

Scott E. Hudson, Lining Yao (*Carnegie Mellon University*)

LBW055: In Contact: Pinching, Squeezing and Twisting for Mediated Social Touch

Melanie F. Simons, Alice C. Haynes, Yan Gao, Yihua Zhu, Jonathan Rossiter (*University of Bristol*)

LBW056: Gaze'N'Touch: Enhancing Text Selection on Mobile Devices Using Gaze

Radiah Rivu, Yasmeen Abdrabou, Ken Pfeuffer, Mariam Hassib, Florian Alt

(*Bundeswehr University Munich*)

LBW057: Hilo-wear: Exploring Wearable Interaction with Indoor Air Quality Forecast

Sailin Zhong, Hamed S. Alavi, Denis Lalanne (*University of Fribourg*)

LBW058: 3D-Printed Object Identification Method using Inner Structure Patterns Configured by Slicer Software

Yuki Kubo, Kana Eguchi, Ryosuke Aoki (*NTT Corporation*)

LBW059: FuturePong: Real-time Table Tennis Trajectory Forecasting using Pose Prediction Network

Erwin Wu, Hideki Koike (*Tokyo Institute of Technology*)

LBW060: ScraTouch: Extending Touch Interaction Technique Using Fingernail on Capacitive Touch Surfaces

Kaori Ikematsu, Shota Yamanaka (*Yahoo Japan Corporation*)

LBW061: Laser Cut Layered Gels for Lighting Design

Eric Rawn, Jingyi Li (*Stanford University*)

- LBW062: Exploring User Needs and Design Requirements in Fully Automated Vehicles**
Seul Chan Lee (*Gyeongsang National University*)
Chihab Nadri, Harsh Sanghavi, Myounghoon Jeon (*Virginia Polytechnic Institute and State University*)
- LBW063: Attention-Aware Brain Computer Interface to Avoid Distractions in Augmented Reality**
Lisa-Marie Vortmann, Felix Putze (*University of Bremen*)
- LBW064: Reflatables: A Tube-based Reconfigurable Fabrication of Inflatable 3D Objects**
Takumi Murayama (*Keio University*)
Junichi Yamaoka, Yasuaki Kakehi (*The University of Tokyo*)
- LBW065: Smartphone Operation in a Dark Environment for Semi-aware Users**
Haruna Oshima, Yasushi Matoba, Itiro Siio (*Ochanomizu University*)
- LBW066: Gaze Tracking for Eye-Hand Coordination Training Systems in Virtual Reality**
Aunnoy K. Mutasim, Wolfgang Stuerzlinger, Anil Ufuk Batmaz (*Simon Fraser University*)
- LBW067: Lotus: Mediating Mindful Breathing**
Sibela Chinareva, Jack Jones, Nuha Tumia, Dan Kumpik, Palvi Shah, Aluna Everitt
(*University of Bristol*)
- LBW068: Initial Evaluation of Different Types of Virtual Reality Locomotion Towards a Pedestrian Simulator for Urban and Transportation Planning**
Julian Kreimeier, Daniela Ullmann, Harald Kipke, Timo Götzemann
(*Nuremberg Institute of Technology*)
- LBW069: Avoiding Collisions when Interacting with Levitating Particle Displays**
Maxime Reynal, Euan Freeman, Stephen Brewster (*University of Glasgow*)
- LBW070: Mind The Voice!: Effect of Robot Voice Pitch, Robot Voice Gender, and User Gender on User Perception of Teleoperated Robots**
Sichao Song, Jun Baba (*CyberAgent, Inc.*)
Junya Nakanishi, Yuichiro Yoshikawa, Hiroshi Ishiguro (*Osaka University*)
- LBW071: All in One! User Perceptions on Centralized IoT Privacy Settings**
Karola Marky (*Technische Universität Darmstadt & Keio University*)
Verena Zimmermann, Alina Stöver, Philipp Hoffmann (*Technische Universität Darmstadt*)
Kai Kunze (*Keio University*)
Max Mühlhäuser (*Technische Universität Darmstadt*)
- LBW072: Room for one more? - Introducing Artificial Commensal Companions**
Maurizio Mancini (*University College Cork*)
Radoslaw Niewiadomski (*Istituto Italiano di Tecnologia*)
Gijs Huisman (*Amsterdam University of Applied Sciences*)
Merijn Bruijnes (*Delft University of Technology*)
Conor Patrick Gallagher (*University College Cork*)
- LBW073: MazeRunVR: An Open Benchmark for VR Locomotion Performance, Preference and Sickness in the Wild**
Kirill Ragozin, Kai Kunze (*Keio University*)
Karola Marky (*Technische Universität Darmstadt & Keio University*)
Yun Suen Pai (*University of Auckland*)
- LBW074: L-Visor: Visor Input Device for Labo™ Head-Mounted Display**
Sangmin Park, Hyeonkyu Kim, Jimoon Kim, Yoonho Jang, Sangsun Han, Hojun Aan, Kibum Kim (*Hanyang University*)
- LBW075: The Importance of Virtual Hands and Feet for Virtual Reality Climbing**
Felix Kosmalla, André Zenner (*German Research Center for Artificial Intelligence (DFKI), Saarland Informatics Campus*)
Corinna Tasch (*Saarland Informatics Campus*)
Florian Daiber, Antonio Krüger (*German Research Center for Artificial Intelligence (DFKI), Saarland Informatics Campus*)

LBW076: Considering Wake Gestures for Smart Assistant UsePatryk Pomykalski (*Lódź University of Technology*)Pawel W. Woźniak (*Utrecht University*)Shengdong Zhao (*National University of Singapore*)Mikołaj P. Woźniak, Krzysztof Grudzień, Andrzej Romanowski (*Lódź University of Technology*)**LBW077: Finger Contact in Gesture Interaction Improves Time-domain Input Accuracy in HMD-based Augmented Reality**Seo Young Oh, Boram Yoon, Hyung-il Kim, Woontack Woo (*KAIST*)**LBW078: PurPal: An Interactive Box that Up-regulates Positive Emotions in Consumption Behaviors**Shuran Li, Yu Hao, Jungkyoon Yoon (*Cornell University*)**LBW079: Introducing Functional Biometrics: Using Body-Reflections as a Novel Class of Biometric Authentication Systems**Jonathan Liebers, Stefan Schneegass (*University of Duisburg-Essen*)**LBW080: PinchType: Text Entry for Virtual and Augmented Reality Using Comfortable Thumb to Fingertip Pinches**Jacqui Fashimpaur, Kenrick Kin, Matt Longest (*Facebook*)**LBW081: Towards Conducting Responsible Research with Teens and Parents regarding Online Risks**Zainab Agha, Neeraj Chatlani, Afsaneh Razi, Pamela Wisniewski (*University of Central Florida*)**LBW082: Exploring Smart Home Device Use by Airbnb Hosts**Rajib Dey, Sayma Sultana, Afsaneh Razi, Pamela J. Wisniewski (*University of Central Florida*)**LBW083: Knowledge-driven Biometric Authentication in Virtual Reality**Florian Mathis (*University of Glasgow*)Hassan Ismail Fawaz (*University of Haute-Alsace*)Mohamed Khamis (*University of Glasgow*)**LBW084: Massif: Interactive Interpretation of Adversarial Attacks on Deep Learning**Nilaksh Das, Haekyu Park, Zijie J. Wang, Fred Hohman, Robert Firstman, Emily Rogers, Duen Horng Chau (*Georgia Institute of Technology*)**LBW085: ALEEDSA: Augmented Reality for Interactive Machine Learning**Andrea Ferrario, Raphael Weibel, Stefan Feuerriegel (*ETH Zürich*)**LBW086: Interactive Event Sequence Prediction for Marketing Analysts**Fan Du, Shunan Guo, Sana Malik, Eunyee Koh, Sungchul Kim, Zhicheng Liu (*Adobe Research*)**LBW087: Toward Agile Situated Visualization: An Exploratory User Study**Leonel Merino (*University of Stuttgart*)Boris Sotomayor-Gómez (*Ernst Strüngmann Institute for Neuroscience in Cooperation with Max Planck Society*)Xingyao Yu (*University of Stuttgart*)Ronie Salgado, Alexandre Bergel (*University of Chile*)Michael Sedlmair, Daniel Weiskopf (*University of Stuttgart*)**LBW088: What Design Methods do DataVis Practitioners Know and Use?**Paul Parsons, Ali Baigelenov, Ya-Hsin Hung, Connor Schrank (*Purdue University*)**LBW089: An Unquantified Uncertainty Visualization Design Space During the Opioid Crisis**Jorin Weatherston, Charles Perin, Dennis Hore, Bruce Wallace, Margaret-Anne Storey (*University of Victoria*)**LBW090: CNN 101: Interactive Visual Learning for Convolutional Neural Networks**

Zijie J. Wang, Robert Turko, Omar Shaikh, Haekyu Park, Nilaksh Das,

Fred Hohman (*Georgia Institute of Technology*)Minsuk Kahng (*Oregon State University*)Duen Horng Chau (*Georgia Institute of Technology*)

LBW091: All Fun and Games: Obtaining Critical Pedestrian Behavior Data from an Online Simulation

Kai Holländer, Luca Schellenberg, Changkun Ou, Andreas Butz
(*Ludwig Maximilian University of Munich*)

LBW092: Gridlets: Reusing Spreadsheet Grids

Nima Joharizadeh (*University of California, Davis*)
Advait Sarkar (*Microsoft Research & University of Cambridge*)
Andrew D. Gordon (*Microsoft Research & University of Edinburgh*)
Jack Williams (*Microsoft Research*)

LBW093: Crowdsourcing Virtual Reality Experiments using VRChat

David Saffo, Caglar Yildirim, Sara Di Bartolomeo, Cody Dunne (*Northeastern University*)

LBW094: LandSAGE: Collaborative Large Display Systems for Landslide Response in Southeast Asia

Dylan Kobayashi, Billy Troy Wooton, Nurit Kirshenbaum,
Jason Leigh (*University of Hawaii at Manoa*)
Jason Haga (*AIST - National Institute of Advanced Industrial Science and Technology*)

LBW095: Virtual-reality as a Simulation Tool for Non-humanoid Social Robots

Ofir Sadka, Jonathan Giron, Doron Friedman, Oren Zuckerman, Hadas Erel
(*Herzliya Interdisciplinary Center*)

LBW096: Children of Color's Perceptions of Fairness in AI: An Exploration of Equitable and Inclusive Co-Design

Zoe Skinner, Stacey Brown, Greg Walsh (*University of Baltimore*)

LBW097: EmpathicGPS: Exploring the Role of Voice Tonality in Navigation Systems during Simulated Driving

Sebastian Zepf (*Mercedes-Benz AG*)
Neska El Haouij (*Massachusetts Institute of Technology*)
Wolfgang Minker (*Ulm University*)
Javier Hernandez, Rosalind W. Picard (*Massachusetts Institute of Technology*)

LBW098: Designing a Voice-Bot to Promote Better Mental Health: UX Design for Digital Therapeutics on ADHD Patients

Do Eun Park, Yee-Jin Shin (*Yonsei University*)
EunAh Park, In Ae Choi, Woo Yeon Song (*MBI Clinic Center*)
Jinwoo Kim (*Yonsei University*)

LBW099: Towards Understanding Desiderata for Large-Scale Civic Input Analysis

Mahmood Jasim, Ali Sarvghad (*University of Massachusetts, Amherst*)
Enamul Hoque (*York University*)
Narges Mahyar (*University of Massachusetts, Amherst*)

LBW100: Proto-Chair: Posture-Sensing Smart Furniture with 3D-Printed Auxetics

Soya Eguchi, Yukako Yazaki, Riku Kato, Yusaku Arita, Takumi Moriya, Hiroya Tanaka
(*Keio University*)

LBW101: Utilizing Response Time to Find In-between Ratings within Likes and Dislikes

Minjoon Kim, Yoojung Kim, Joong-seok Lee (*Seoul National University*)

LBW102: Wearable Wisdom: An Intelligent Audio-Based System for Mediating Wisdom and Advice

Pat Pataranutaporn, Tomás Vega Gálvez, Lisa Yoo, Abishkar Chhetri, Pattie Maes
(*Massachusetts Institute of Technology*)

LBW103: Outfit Completion and Clothes Recommendation

Gabriele Prato, Federico Sallemi, Paolo Cremonesi (*Politecnic di Milano*)
Mario Scriminaci (*ContentWise*)
Stefan Gudmundsson (*H&M*)
Silvio Palumbo (*Boston Consulting Group*)

LBW104: Inconsequential Appearances: An Analysis of Anthropomorphic Language in Voice Assistant Forums

Astrid Weiss (*Technische Universität Wien*)
Anna Pillinger (*Vienna University*)
Katta Spiel (*Katholieke Universiteit Leuven & University of Vienna*)
Sabine Zauchner-Studnicka (*MOVES - Zentrum für Gender und Diversität*)

LBW105: Spreadsheet Use and Programming Experience: An Exploratory Survey

Advait Sarkar (*Microsoft Research & University of Cambridge*)
Judith W. Borghouts, Anusha Iyer (*Microsoft Research*)
Sneha Khullar, Christian Canton (*Microsoft*)
Feliienne Hermans (*Delft University of Technology*)
Andrew D. Gordon (*Microsoft Research & University of Edinburgh*)
Jack Williams (*Microsoft Research*)

LBW106: Understanding Digital Checklist Use Through Team Communication

Angela Mastrianni, Leah Kulp, Emily Mapelli, Aleksandra Sarcevic (*Drexel University*)

LBW107: International Differences in Social Media Interactions Between Mobile Network Operators and Consumers

Naoya Tojo, Tomoko Mizumoto, Sumaru Niida (*KDDI Research*)

LBW108: Modeling a Musician Performing on a Digital Musical Instrument as a Communications Channel

Edgar Berdahl, Michael Blandino (*Louisiana State University*)

LBW109: Defining AR: Public Perceptions of an Evolving Landscape

Alexandra Thompson, Leigh Ellen Potter (*Griffith University*)

LBW110: Family Group Chat: Family Needs to Manage Contact and Conflict

Alireza Mogharrab, Carman Neustaedter (*Simon Fraser University*)

LBW111: Modeling the Uncertainty in Pointing of Moving Targets with Arbitrary Shapes

Ziyue Zhang, Jin Huang, Feng Tian (*Chinese Academy of Sciences*)

LBW112: Scenario-based XAI for Humanitarian Aid Forecasting

Josh Andres, Christine T. Wolf, Sergio Cabrero Barros, Erick Oduor, Rahul Nair (*IBM Research*)
Alexander Kjærum, Anders Bech Tharsgaard, Bo Schwartz Madsen (*Danish Refugee Council*)

LBW113: Time Estimation Bias in Knowledge Work: Tasks With Fewer Time Constraints Are More Error-Prone

Yoana Ahmetoglu, Duncan P. Brumby, Anna L. Cox (*University College London*)

LBW114: Conformity Behavior in Group Playlist Creation

Christine Bauer (*Johannes Kepler University Linz*)
Bruce Ferwerda (*Jönköping University*)

LBW115: A General Methodology to Quantify Biases in Natural Language Data

Jiawei Chen (*Google*)
Anbang Xu, Zhe Liu, Yufan Guo, Xiaotong Liu, Yingbei Tong,
Rama Akkiraju (*IBM Almaden Research Center*)
John M. Carroll (*The Pennsylvania State University*)

LBW116: Further Exploring Communal Technology Use in Smart Homes: Social Expectations

Martin J. Kraemer, Ulrik Lyngs, Helena Webb, Ivan Flechais (*University of Oxford*)

LBW117: Accelerating Adult Readers with Typeface: A Study of Individual Preferences and Effectiveness

Shaun Wallace (*Brown University*)
Rick Treitman (*Adobe Inc.*)
Jeff Huang (*Brown University*)
Ben D. Sawyer (*University of Central Florida*)
Zoya Bylinskii (*Adobe Inc.*)

LBW118: Will Punishing Robots Become Imperative in the Future?

Gabriel Lima, Chihyung Jeon, Meeyoung Cha (*KAIST*)
Kyungsin Park (*Korea University*)

LBW119: The Effect of Message Framing and Timing on the Acceptance of Artificial Intelligence's Suggestion

Taenyun Kim, Hayeon Song (*Sungkyunkwan University*)

LBW120: Understanding Value and Design Choices Made by Android Family App Developers

Anirudh Ekambaranathan, Jun Zhao, Max Van Kleek (*University of Oxford*)

LBW121: Does the Presence of Privacy Relevant Information Affect App Market Choice?

Maria K. Wolters (*University of Edinburgh & Alan Turing Institute*)
Shuobing Li (*University of Edinburgh*)
Haoyu Wang, Xinyu Yang (*Beijing University of Posts and Telecommunications*)
Yao Guo (*Peking University*)

LBW122: Exploring How International Graduate Students in the US Seek Support

Tamanna Motahar, Mahmood Jasim (*University of Massachusetts, Amherst*)
Syed Ishtiaque Ahmed (*University of Toronto*)
Narges Mahyar (*University of Massachusetts, Amherst*)

LBW123: Who Uses Bots? A Statistical Analysis of Bot Usage in Moderation Teams

Charles Kiene, Benjamin Mako Hill (*University of Washington*)
(*University of Washington*)

LBW124: A Chatbot Solution to Chat App Problems: Envisioning a Chatbot Counseling System for Teenage Victims of Online Sexual Exploitation

Yuna Ahn, Yilin Zhang, Yujin Park, Joonhwan Lee (*Seoul National University*)

LBW125: Can a Conversational Agent Lower Sexual Violence Victims' Burden of Self-Disclosure?

Hyanghee Park, Joonhwan Lee (*Seoul National University*)

LBW126: Designing for Digital Detox: Making Social Media Less Addictive with Digital Nudges

Aditya Kumar Purohit (*Université de Neuchâtel*)
Louis Barclay (*Nudge*)
Adrian Holzer (*University of Neuchâtel*)

LBW127: Hybridity as Design Strategy for Service Robots to Become Domestic Products

Diana Löffler, Judith Dörrenbächer, Julika Welge, Marc Hassenzahl (*University of Siegen*)

LBW128: Adaptation of the System Usability Scale for User Testing with Children

Cynthia Putnam, Melisa Puthemadom, Marjorie Ann Cuerdo, Wanshu Wang, Nathaniel Paul (*DePaul University*)

LBW129: Beep Beep: Building Trust with Sound

Matthias Schmidmaier (*Ludwig Maximilian University of Munich & TAWNY*)
Heinrich Hußmann, Dominik Maurice Runge (*Ludwig Maximilian University of Munich*)

LBW130: Effects of Virtual Gait Visualization in Walk-in-Place on Body Ownership and Presence

Juyoung Lee (*Korea University & Korea Institute of Science and Technology*)
Myungho Lee (*Korea Institute for Science and Technology*)
Gerard Jounghyun Kim (*Korea University*)
Jae-In Hwang (*Korea Institute of Science and Technology*)

LBW131: Exploring Spatial Scale Perception in Immersive Virtual Reality for Risk Assessment in Interior Design

Jingjing Zhang, Thammathip Piomsomboon, Ze Dong (*University of Canterbury*)
Xiaoliang Bai (*Northwestern Polytechnical University*)
Simon Hoermann, Rob Lindeman (*University of Canterbury*)

- LBW132: ARphy: Managing Photo Collections Using Physical Objects in AR**
Han Joo Chae, Youli Chang, Minji Kim, Gwanmo Park, Jinwook Seo (*Seoul National University*)

- LBW133: I Wish You Were Smart(er): Investigating Users' Desires and Needs Towards Home Appliances**

Sarah Prange (*Bundeswehr University Munich & Ludwig Maximilians Universität Munich*)
Florian Alt (*Bundeswehr University Munich*)

- LBW134: Opportunities and Challenges of Text Input in Portable Virtual Reality**

Pascal Knierim, Thomas Kosch, Johannes Groschopp, Albrecht Schmidt
(*Ludwig Maximilian University of Munich*)

- LBW135: Mac Users Do It Differently: the Role of Operating System and Individual Differences in File Management**

Jesse David Dinneen (*Victoria University of Wellington*)
Ilja Frissen (*McGill University*)

- LBW136: FashionQ: An Interactive Tool for Analyzing Fashion Style Trend with Quantitative Criteria**

Youngeun Jeon, Seungwan Jin, Bogoan Kim, Kyungsik Han (*Ajou University*)

- LBW137: Expectations and Trust in Automated Vehicles**

Qiaoning Zhang, X. Jessie Yang, Lionel Peter Robert (*University of Michigan – Ann Arbor*)

- LBW138: Towards Improving Emotion Self-report Collection using Self-reflection**

Surja Ghosh (*Centrum Wiskunde & Informatica*)
Bivas Mitra (*Indian Institute of Technology Kharagpur*)
Pradipta De (*Georgia Southern University*)

- LBW139: Designing User Interface for Facilitating Live Editing in Streaming**

Atima Tharatipyakul (*Singapore University of Technology and Design*)
Jie Li, Pablo Cesar (*Centrum Wiskunde & Informatica*)
(*Centrum Wiskunde & Informatica*)

- LBW140: What Do People Really Want When They Say They Want “Explainable AI?” We Asked 60 Stakeholders.**

Andrea Brennen (*In-Q-Tel Labs*)

- LBW141: Holistic Model for Designing a Climate Service Application on the KaiOS Platform**

Ville Myllynpää, Jani Haakana, Julius Virtanen, Erkki Sutinen (*University of Turku*)

- LBW142: Curiosity Notebook: A Platform for Learning by Teaching Conversational Agents**

Edith Law, Parastoo Baghaei Ravari, Nalin Chhibber (*University of Waterloo*)
Dana Kulic (*Monash University*)
Stephanie Lin, Kevin D. Pantasdo, Jessy Ceha, Sangho Suh, Nicole Dillen (*University of Waterloo*)

- LBW143: Learning by Doing: Evaluation of an Educational VR Application for the Care of Schizophrenic Patients**

Soojeong Yoo (*University of Sydney*)
Sunkyung Kim, Youngho Lee (*Mokpo National University*)

- LBW144: Jill Watson SA: Design and Evaluation of a Virtual Agent to Build Communities Among Online Learners**

Qiaosi Wang, Shan Jing, Ida Camacho, David Joyner, Ashok Goel (*Georgia Institute of Technology*)

- LBW145: Interactive Technologies for Emotion-regulation Training: Opportunities and Challenges**

Ofir Sadka, Alissa Antle (*Simon Fraser University*)

- LBW146: “Elinor Is Talking to Me on the Screen!” Integrating Conversational Agents into Children’s Television Programming**

Ying Xu, Mark Warschauer (*University of California, Irvine*)

- LBW147: API as Curriculum: Designing High-Level API Affordances as Instructional Scaffolds**
Adam Mechtley (*Unity Technologies*)
- LBW148: A Methodology for Multimodal Learning Analytics and Flow Experience Identification within Gamified Assignments**
Olena Pastushenko (*Brno University of Technology*)
Wilk Oliveira, Seiji Isotani (*University of São Paulo*)
Tomáš Hruška (*Brno University of Technology*)
- LBW149: Understanding Students' Needs for Better Collaborative Coding Tools**
Kimberly Michelle Ying, Kristy Elizabeth Boyer (*University of Florida*)
- LBW150: Let's Chance: Playful Probabilistic Programming for Children**
Manuj Dhariwal, Shruti Dhariwal (*Massachusetts Institute of Technology*)
- LBW151: ViewPoint: Student Experiences with Technology Supporting Role-Based Educational Simulations**
Rebecca M. Quintana, Chris Quintana, Jacob Fortman, Elisabeth R. Gerber
(*University of Michigan – Ann Arbor*)
- LBW152: Towards Wearable-based Hypoglycemia Detection and Warning in Diabetes**
Martin Maritsch (*Eidgenössische Technische Hochschule Zurich*)
Simon Föll (*Karlsruhe Institute of Technology*)
Vera Lehmann (*Inselspital, Bern University Hospital*)
Caterina Bérubé, Mathias Kraus, Stefan Feuerriegel (*Eidgenössische Technische Hochschule Zurich*)
Tobias Kowatsch (*University of St.Gallen & Eidgenössische Technische Hochschule Zurich*)
Thomas Züger, Christoph Stettler (*Inselspital, Bern University Hospital*)
Elgar Fleisch (*Eidgenössische Technische Hochschule Zurich & University of St. Gallen*)
Felix Wortmann (*University of St. Gallen*)
- LBW153: Finding the Inner Clock: A Chronobiology-based Calendar**
Sarah Janböcke, Alina Gawlitta, Judith Dörrenbächer, Marc Hassenzahl (*University of Siegen*)
- LBW154: Preliminary Results From a Longitudinal Study of a Tablet-Based Speech Therapy Game**
Adam Hair (*Texas A&M University*)
Constantina Markoulli, Penelope Monroe, Jacqueline McKechnie, Kirrie J. Ballard
(*University of Sydney*)
Beena Ahmed (*University of New South Wales and Texas A&M University at Qatar*)
Ricardo Gutierrez-Osuna (*Texas A&M University*)
- LBW155: A Wizard-of-Oz Interface and Persona-based Methodology for Collecting Health Counseling Dialog**
William R. Kearns, Neha Kaura, Myra Divina, Cuong Vo, Dong Si, Teresa Ward, Weichao Yuwen
(*University of Washington*)
- LBW156: Time to Get Personal: Individualised Virtual Reality for Mental Health**
Nilufar Baghaei (*Massey University & Otago Polytechnic Auckland Campus (OPAIC)*)
Lehan Stemmet, Andrej Hlasnik, Konstantin Emanov (*Otago Polytechnic Auckland Campus (OPAIC)*)
Sylvia Hach (*Unitec Institute of Technology*)
John A. Naslund (*Harvard Medical School*)
Mark Billinghamurst (*University of Auckland & Auckland Bioengineering Institute*)
Imran Khaliq (*Media Design School*)
Hai-Ning Liang (*Xi'an Jiaotong-Liverpool University*)
- LBW157: "I Am Not an Engineer": Understanding How Clinicians Design & Alter Assistive Technology**
Rahaf Alharbi (*University of California, San Diego*)
Ada Ng, Rawan Alharbi, Josiah Hester (*Northwestern University*)
- LBW158: Public Perception of Mental Illness: Opportunity for Community-based Collaborative Intervention**
Makuochi Nkwo (*Ebonyi State University*)
Banuchitra Suruliraj, Rita Orji (*Dalhousie University*)

LBW159: PaNDa-Glove: A Sensory Substitution Glove for Peripheral Neuropathy
Tom Alldridge, Michael Barlow, Xiao Xuan The, Edward Barker, Samuel Sutherland-Dee, Anne Roudaut (*University of Bristol*)

LBW160: Characterizing Human vs. Automated Coaching: Preliminary Results
Elliot G. Mitchell (*Columbia University*)
Rosa Maimone (*Fondazione Bruno Kessler*)
Lena Mamyrkina (*Columbia University*)

LBW161: Using Social Comparisons to Facilitate Healthier Choices in Online Grocery Shopping Contexts
Blake M. DiCosola III (*University of Oxford & University of California, Irvine*)
Gina Neff (*University of Oxford*)

LBW162: Pepper in the Library” Students’ First Impressions
Omar Mubin, Isha Kharub, Aila Khan (*Western Sydney University*)

LBW200: The Ethics of Data-Driven Personas
Joni Salminen (*Hamad Bin Khalifa University & University of Turku*)
Willemien Froneman (*Stellenbosch University*)
Soon-gyo Jung, Shammur Chowdhury (*Hamad Bin Khalifa University*)
Bernard J. Jansen (*Qatar Computing Research Institute, Hamad Bin Khalifa University*)

LBW201: Multimodal Interaction Design for Public Window Displays: A Case Study
Xiao-Nan Liu, Min-Zhi Shao (*Tongji University*)

LBW202: Impact of Key Shape and Dimension on Text Entry in Virtual Reality
Tafadzwa Joseph Dube, Ahmed Sabbir Arif (*University of California, Merced*)

LBW203: Chasing Play with Instagram: How Can We Capture Mundane Play Potentials to Inspire Interaction Design?
Ferran Altarriba Bertran (*University of California, Santa Cruz*)
Laia Turmo Vidal (*Uppsala University*)
Ella Dagan, Jared Duval (*University of California, Santa Cruz*)
Elena Márquez Segura (*Universidad Carlos III de Madrid*)
Katherine Isbister (*University of California, Santa Cruz*)

LBW204: Design is (A)live: An Environment Integrating Ideation and Assessment
Gabriel Britain, Ajit Jain, Nic Lupfer, Andruid Kerne (*Texas A&M University*)
Aaron Perrine (*Microsoft Corporation*)
Jinsil Seo (*Texas A&M University*)
Annie Sungkajun (*Illinois State University*)

LBW205: Empowering a Creative City: Engage Citizens in Creating Street Art through Human-AI Collaboration
Zhuying Li, Yan Wang (*Monash University*)
Wei Wang (*University of Melbourne*)
Stefan Greuter (*Deakin University*)
Florian ‘Floyd’ Mueller (*Monash University*)

LBW206: Coding on Country
Alessandro Soro (*Queensland University of Technology*)
Wujal Wujal Aboriginal Shire Council (*Wujal Wujal Aboriginal Shire Council*)
Jennyfer Lawrence Taylor, Michael Esteban, Margot Brereton (*Queensland University of Technology*)

LBW207: Stamper: An Artboard-Oriented Creative Coding Environment
Cameron Burges, Dan Lockton s, Maayan Albert, Daniel Cardoso Llach (*Carnegie Mellon University*)

LBW208: Towards a Smart and Socialised Augmented Reality
Alessandro Soro, Ross Brown, Peta Wyeth, Selen Turkay (*Queensland University of Technology*)

LBW209: Designing a Speculative Kit for Technology Imagination with Makers
Wenn-Chieh Tsai (*National Taiwan University*)
David Chung, MengChi Liu, Bowen Kong (*National Taiwan University of Science and Technology*)
Chun-Cheng Huang (*National Taiwan University*)
Rung-Huei Liang (*National Taiwan University of Science and Technology*)

LBW210: Designing Technologies for Community Policing

Min Zhang, Arosha K. Bandara, Blaine Price, Graham Pike, Zoe Walkington, Camilla Elphick, Lara Frumkin (*Open University*)
Richard Philpot, Mark Levine (*Lancaster University*)
Avelie Stuart (*University of Exeter*)
Bashar Nuseibeh (*University of Limerick*)

LBW211: Crocodile Language Friend: Tangibles to Foster Children's Language Use

Jennyfer Lawrence Taylor (*Queensland University of Technology*)
Wujal Wujal Aboriginal Shire Council (*Wujal Wujal Aboriginal Shire Council*)
Alessandro Soro, Michael Esteban, Andrew Vallino, Paul Roe, Margot Brereton (*Queensland University of Technology*)

LBW212: 4DTexture: A Shape-Changing Fabrication Method for 3D Surfaces with Texture

Lingyun Sun, Jiaji Li, Yu Chen, Yue Yang, Ye Tao (*Zhejiang University*)
Guanyun Wang, Lining Yao (*Carnegie Mellon University*)

LBW213: SpaceHuman: A Soft Robotic Prosthetic for Space Exploration

Valentina Sumini, Manuel Muccillo, Jamie Milliken, Ariel Ekblaw, Joseph Paradiso (*Massachusetts Institute of Technology*)

LBW214: iMold: Enabling Interactive Design Optimization for In-Mold Electronics

Jonathan Ting (*University of California, Berkeley*)
Yunbo Zhang (*Rochester Institute of Technology*)
Sang Ho Yoon (*Microsoft Corporation*)
James D. Holbery (*Tactual Labs*)
Siyuan Ma (*Microsoft Corporation*)

LBW215: Towards Traceable Design Rationale in Augmented Reality

Jeroen Ceyssens, Sven Coppers, Davy Vanacken (*Hasselt University - tUL - Flanders Make*)
(*Hasselt University - tUL - Flanders Make*)
(*Hasselt University - tUL - Flanders Make*)

LBW216: Driver Behavior in Conditional Automation: Comparison of Driving Simulator and Wizard of Oz Conditions

Céline Poisson, Jessy Barré (*VEDECOM Institute*)
Gaëtan Bourmaud (*PARIS 8 University*)
Jean-François Forzy (*Renault*)

LBW217: SCRAM: Simple Checks for Realtime Analysis of Model Training for Non-Expert ML Programmers

Eldon Schoop, Forrest Huang, Björn Hartmann (*University of California, Berkeley*)

LBW218: ScriptFree: Designing Speech Preparation Systems with Adaptive Visual Reliance Control on Script

Jeungmin Oh (*KAIST*)
Darren Edge (*Microsoft Research*)
Uichin Lee (*KAIST*)

LBW219: PredicTaps: Latency Reduction Technique for Single-taps Based on Recognition for Single-tap or Double-tap

Kaori Ikematsu, Kota Tsubouchi, Shota Yamanaka (*Yahoo Japan Corporation*)

LBW220: Electrical Stimulation Promotes Saliva Secretion: Proposition of Novel Interaction via Saliva Secretion

Nozomi Takahashi, Hiromi Nakamura, Takuji Narumi, Michitaka Hirose, Kazuma Aoyama (*The University of Tokyo*)

LBW221: Simo: Interactions with Distant Displays by Smartphones with Simultaneous Face and World Tracking

Teo Babic (*BMW Group*)
Florian Perteneder (*University of Applied Sciences Upper Austria*)
Harald Reiterer (*University of Konstanz*)
Michael Haller (*University of Applied Sciences Upper Austria*)

LBW222: Navigation Based Application with Augmented Reality and Accessibility

Sebastião Rocha (*Polytechnic Institute of Castelo Branco*)

Arminda Lopes (*Polytechnic Institute of Castelo Branco & Madeira Interactive Technologies Institute*)

LBW223: Golf Club-Type Device with Force Feedback for Modifying Club Posture

Takuto Nakamura (*Tokyo Institute of Technology & Japan Society for the Promotion of Science*)

Hideki Koike (*Tokyo Institute of Technology*)

LBW224: Portalware: A Smartphone-Wearable Dual-Display System for Expanding the Free-Hand Interaction Region in Augmented Reality

Jing Qian, Meredith Young-Ng, Xiangyu Li, Angel Cheung, Fumeng Yang, Jeff Huang

(*Brown University*)

LBW225: Living Paper: Authoring AR Narratives Across Digital and Tangible Media

Stephanie Claudio Daffara, Anna Brewer, Balasaravanan Thoravi Kumaravel, Bjoern Hartmann

(*University of California, Berkeley*)

LBW226: Hybrid Wizard of Oz: Concept Testing a Recommender System

Sruthi Viswanathan, Behrooz Omidvar-Tehrani, Adrien Bruyat, Frédéric Roulland,

Antonietta Maria Grasso (*Naver Labs Europe*)

LBW227: GameBot: A Visualization-augmented Chatbot for Sports Game

Qiyu Zhi, Ronald Metoyer (*University of Notre Dame*)

LBW228: Realtime Center of Mass Adjustment via Weight Switching Device inside a Golf Putter

Chen-Chieh Liao, Hideki Koike (*Tokyo Institute of Technology*)

Takuto Nakamura (*Tokyo Institute of Technology & JSPS Research Fellow*)

LBW229: Experiences with Improving the Transparency of AI Models and Services

Michael Hind, Stephanie Houde, Jacquelyn Martino , Aleksandra Mojsilović, David Piorkowski, John Richards, Kush R. Varshney (*IBM Research*)

LBW230: Designing Prototype Player Personas from a Game Preference Survey

Joni Salminen (*Qatar Computing Research Institute & University of Turku*)

Jukka Vahlo (*University of Tampere*)

Aki Koponen (*University of Turku*)

Soon-Gyo Jung, Shammur A. Chowdhury, Bernard J. Jansen (*Qatar Computing Research Institute*)

LBW231: Getting Playful with Explainable AI: Games with a Purpose to Improve Human Understanding of AI

Laura Beth Fulton, Qian Wang, Jessica Hammer, Ja Young Lee, Zhendong Yuan, Adam Perer
(*Carnegie Mellon University*)

LBW232: "I'll Be Back": A Taxonomy of Death and Rebirth in Platformer Video Games

Marjorie Ann M. Cuerdo (*DePaul University*)

Edward F. Melcer (*University of California, Santa Cruz*)

LBW233: Jingle Jigsaw - Playful Dance Scaffolding Through Motion Detection

JoDee Allen (*Concordia University*)

Adrian Holzer (*University of Neuchâtel*)

LBW234: Ingestible Sensors as Design Material for Bodily Play

Zhuying Li, Yan Wang (*Monash University*)

(*Monash University*)

Stefan Greuter (*Deakin University*)

Florian 'Floyd' Mueller (*Monash University*)

LBW235: Using Hexad User Types to Select Suitable Gamification Elements to Encourage Healthy Eating

Maximilian Altmeyer, Marc Schubhan, Pascal Lessel (*German Research Center for Artificial Intelligence (DFKI), Saarland Informatics Campus*)

Linda Muller (*Saarland University, Saarland Informatics Campus*)

Antonio Krüger (*German Research Center for Artificial Intelligence (DFKI), Saarland Informatics Campus*)

LBW236: Assessing the Experience of People with Autism at the Canada Science and Technology Museum

Elizabeth Hoskin (*Queen's University*)

Aditi Singh, Nicola Oddy (*Carleton University*)

Adrian L. Jessup Schneider (*Queen's University*)

Gabrielle Trepanier (*Ingenium*)

Chantal Trudel, Audrey Girouard (*Carleton University*)

LBW237: Prototyping Accessible Work Systems with a Deaf-Blind Employee

Abigail Tan, Michael Robin, Craig Williams, LouAnne Boyd (*Chapman University*)

LBW238: Combining Eye Tracking and Verbal Response to Understand the Impact of a Global Filter

Franceli L. Cibrian, Jazette Johnson (*University of California, Irvine*)

Viseth Sean (*Chapman University*)

Hollis Pass (*Independent Speech-language Pathologist*)

LouAnne Boyd (*Chapman University*)

LBW239: BlindPilot: A Robotic Local Navigation System that Leads Blind People to a Landmark Object

Seita Kayukawa (*Waseda University*)

Tatsuya Ishihara, Hironobu Takagi (*IBM Research - Tokyo*)

Shigeo MORISHIMA (*Waseda Research Institute for Science and Engineering*)

Chieko Asakawa (*IBM Research*)

LBW240: People with Motor Disabilities Using Gaze to Control Telerobots

Guangtao Zhang, John Paulin Hansen (*Technical University of Denmark*)

LBW241: VisPhoto: Photography for People with Visual Impairment as Post-Production of Omni-Directional Camera Image

Masakazu Iwamura, Naoki Hirabayashi, Zheng Cheng (*Osaka Prefecture University*)

Kazunori Minatani (*National Center for University Entrance Examinations*)

Koichi Kise (*Osaka Prefecture University*)

LBW242: Gaze-guided Magnification for Individuals with Vision Impairments

Natalie Maus (*Colby College*)

Dalton Rutledge (*Westminster College*)

Sedeeq Al-Khazraji (*Rochester Institute of Technology & University of Mosul*)

Reynold Bailey, Cecilia Ovesdotter Alm, Kristen Shinohara (*Rochester Institute of Technology*)

LBW243: Please Touch Color: Tactile-Color Texture Design for The Visually Impaired

Jaejun Shin, Jundong Cho, Sangwon Lee (*Sungkyunkwan University*)

LBW244: Automated Content Warnings for Sensitive Posts

Manuka Stratta, Julia Park, Cooper deNicola (*Stanford University*)

LBW245: Views from the Wheelchair: Understanding Interaction between Autonomous Vehicle and Pedestrians with Reduced Mobility

Ashratuz Zavin Asha, Christopher Smith, Lora Oehlberg (*University of Calgary*)

Sowmya Somanath (*University of Victoria*)

Ehud Sharlin (*University of Calgary*)

LBW246: Deaf Individuals' Views on Speaking Behaviors of Hearing Peers when Using an Automatic Captioning App

Matthew Seita, Matt Huenerfauth (*Rochester Institute of Technology*)

LBW247: Meal Chat: Promoting Mealtime Social Interaction for College Students

Yuxing Wu, Elisa Krebs, Adithya Hassan Shankaranand, Patrick Shih,

Chia-Fang Chung (*Indiana University Bloomington*)

LBW248: EMI: An Expressive Mobile Interactive Robot

Yuhui You, Mitchell Fogelson, Kelvin Cheng, Bjorn Stenger (*Rakuten*)

LBW249: Socially-Informed Sorting for Guiding Personal Finance Choices

Graham Dove, Ayanna Seals, Oded Nov (*New York University*)

LBW250: My Body, My Avatar: How People Perceive Their Avatars in Social Virtual Reality

Guo Freeman, Samaneh Zamanifar, Divine Maloney, Alexandra Adkins (*Clemson University*)

LBW251: Supporting an Iterative Conversation Design Process

Yoonseo Choi, Hyungyu Shin (*KAIST*)

Toni-Jan Keith Monserrat (*University of the Philippines Los Baños*)

Nyoungwoo Lee, Jeongeon Park, Juho Kim (*KAIST*)

LBW252: Who Is Changing Your Question on a Social Q&A Website?

Si Chen (*University of Illinois at Urbana-Champaign*)

Haocong Cheng (*Independent Researcher*)

Yun Huang (*University of Illinois at Urbana-Champaign*)

LBW253: "Taking Care of a Fruit Tree": Nurturing as a Layer of Concern in Online Community Moderation

Bingjie Yu (*University of Bath*)

Joseph Seering (*Carnegie Mellon University*)

Katta Spiel (*Katholieke Universiteit Leuven & University of Vienna*)

Leon Watts (*University of Bath*)

LBW254: Effect of Fixed and Infinite Ray Length on Distal 3D Pointing in Virtual Reality

Anil Ufuk Batmaz, Wolfgang Stuerzlinger (*Simon Fraser University*)

LBW255: UTAKATA: Floating Bubble Display

Ayaka Ishii, Manaka Fukushima, Yasushi Matoba, Itiro Siio (*Ochanomizu University*)

LBW256: Creating Illusion of Wind Blowing with Air Vortex-induced Apparent Tactile Motion

Toki Takeda, Arinobu Niijima, Takafumi Mukouchi, Takashi Satou
(*NTT Service Evolution Laboratories*)

LBW257: Keycube: Text Entry Evaluation with a Cubic Device

Damien Brun (*Université TÉLUQ*)

Sébastien George (*Le Mans University*)

Charles Gouin-Vallerand (*Université de Sherbrooke*)

LBW258: ThermalBitDisplay: Haptic Display Providing Thermal Feedback Perceived Differently Depending on Body Parts

Arinobu Niijima, Toki Takeda, Takafumi Mukouchi, Takashi Satou (*NTT Corporation*)

LBW259: A Preliminary Study on Performance Evaluation of Multi-View Multi-Modal Gaze Estimation under Challenging Conditions

Jung-Hwa Kim, Jin-Woo Jeong (*Kumoh National Institute of Technology*)

LBW260: AmbiPlant - Ambient Feedback for Digital Media through Actuated Plants

Donald Degraen, Marc Schubhan, Kamila Mushkina, Akhmadjon Makhsadov, Felix Kosmalla, André Zenner, Antonio Krüger (*German Research Center for Artificial Intelligence (DFKI), Saarland Informatics Campus*)

LBW261: 3D Sketching for Multi-Pose Products

Joon Hyub Lee, Hyung-Gi Ham, Seok-Hyung Bae (*KAIST*)

LBW262: Towards a Conceptual Model for Provoking Privacy Speculation

Norbert Nthalala, Emilee Rader (*Michigan State University*)

LBW263: What does the Oscilloscope Say?: Comparing the Efficiency of In-Situ Visualisations during Circuit Analysis

Adam Nowak (*Lódź University of Technology & Ludwig Maximilian University of Munich*)

Pascal Knierim (*Ludwig Maximilian University of Munich*)

Andrzej Romanowski (*Lódź University of Technology*)

Albrecht Schmidt, Thomas Kosch (*Ludwig Maximilian University of Munich*)

(*Ludwig Maximilian University of Munich*)

LBW264: Verge-it: Gaze Interaction for a Binocular Head-Worn Display using Modulated Disparity Vergence Eye Movement

Sunggeun Ahn, Jeongmin Son, Sangyoon Lee, Geehyuk Lee (*KAIST*)

- LBW265: Soft Robotic Compression Garment to Assist Novice Meditators**
Esther Foo, Justin Baker, Crystal Compton, Brad Holschuh (*University of Minnesota*)
- LBW266: Harnessing Gestures to Externalize Discourse Ideas for Common Ground: Design Implications from a Frame of Reference Analysis**
Sarah Anne Brown, Sharon Lynn Chu, Neha Rani (*University of Florida*)
- LBW267: Exploring Acceptability and Utility of Deformable Interactive Garment Buttons**
Victor Cheung, Audrey Girouard (*Carleton University*)
- LBW268: Disruptabottle: Encouraging Hydration with an Overflowing Bottle**
Adam Beddoe, Romana Burgess, Lucian Carp, James Foster, Adam Fox, Leechay Moran, Peter Bennett, Daniel Bennett (*University of Bristol*)
- LBW269: PauseBoard: A Force-Feedback Keyboard for Unintrusively Encouraging Regular Typing Breaks**
Lewis Bell, Jay Lees, Will Smith, Charlie Harding, Ben Lee, Daniel Bennett (*University of Bristol*)
- LBW270: Small, Soft, Thin, Lightweight and Flexible Tactile Display Enabling to Provide Multiple Mechanical Stimuli**
Tadatoshi Kurogi (*Keio University & TOYODA GOSEI Co., Ltd.*)
Yuji Yonehara, Genki Sago, Masatoshi Shimada, Takeshi Fujiwara (*TOYODA GOSEI Co., Ltd.*)
Roshan Lalitha Peiris (*Rochester Institute of Technology*)
- LBW271: Augmentation Concepts with HUDs for Cyclists to Improve Road Safety in Shared Spaces**
Tamara von Sawitzky, Philipp Wintersberger (*Technische Hochschule Ingolstadt & Johannes Kepler University*)
Andreas Löcken (*Technische Hochschule Ingolstadt*)
Anna-Katharina Frison (*Technische Hochschule Ingolstadt & Johannes Kepler University*)
Andreas Riener (*Technische Hochschule Ingolstadt*)
- LBW272: Manypulo: A Flexible System Facilitating the Creation of Interactive Physical Prototypes**
Tassilo Bouwman, Leon Reicherts (*University College London*)
- LBW273: Watch my Painting: The Back of the Hand as a Drawing Space for Smartwatches**
Maximilian Schrapel, Florian Herzog, Steffen Ryll, Michael Rohs (*Leibniz University Hannover*)
- LBW274: Smart Hard Hat: Exploring Shape Changing Hearing Protection**
Kwame Dogbe, Henry Glyde, Tim Nguyen, Themis Papathemistocleous, Katie Marquand, Peter Bennett (*University of Bristol*)
- LBW275: Can Computer-Generated Speech Have an Age?**
Earl W. Huff, Jr., Brodrick Stigall, Julian Brinkley, Richard Pak, Kelly Caine (*Clemson University*)
- LBW276: Using Mobile Augmented Reality to Improve Attention in Adults with Autism Spectrum Disorder**
Katherine Wang, Bingqing Zhang, Youngjun Cho (*University College London*)
- LBW277: Perceived and Measured Task Effectiveness in Human-AI Collaboration**
Rune Møberg Jacobsen, Lukas Bjørn Leer Bysted, Patrick Skov Johansen, Eleftherios Papachristos, Mikael B. Skov (*Aalborg University*)
- LBW278: Norimaki Synthesizer: Taste Display Using Ion Electrophoresis in Five Gels**
Homei Miyashita (*Meiji University*)
- LBW279: Beyond Avoidance and Passivity: Novel UIs to Make Terms of Service Comprehensible**
Lee Taber, Paul May, Keane Yahn-Krafft, Steve Whittaker (*University of California, Santa Cruz*)
- LBW280: 'That's Not Me': Surprising Algorithmic Inferences**
Samantha Hautea, Anjali Munasinghe, Emilee Rader (*Michigan State University*)
- LBW281: Twice as Nice? A Preliminary Evaluation of Double Android Unlock Patterns**
Timothy J. Forman, Daniel S. Roche (*United States Naval Academy*)
Adam J. Aviv (*The George Washington University*)

LBW282: Will You Log into Tinder using your Facebook Account? Adoption of Single Sign-On for Privacy-Sensitive Apps

Eugene Cho, Jinyoung Kim, S. Shyam Sundar (*The Pennsylvania State University*)

LBW283: RubikAuth: Fast and Secure Authentication in Virtual Reality

Florian Mathis, John Williamson (*University of Glasgow*)

Kami Vaniea (*University of Edinburgh*)

Mohamed Khamis (*University of Glasgow*)

LBW284: MeteoVis: Visualizing Meteorological Events in Virtual Reality

David Li, Eric Lee, Elijah Schwellung, Mason G. Quick, Patrick Meyers (*University of Maryland*)

Ruofei Du (*Google*)

Amitabh Varshney (*University of Maryland*)

LBW285: Data in Context: Engaging Audiences with 3D Physical Geo-Visualization

Nurit Kirshenbaum, James Hutchison, Ryan Theriot, Dylan Kobayashi, Jason Leigh

(*University of Hawaii at Manoa*)

LBW286: Techniques to Visualize Occluded Graph Elements for 2.5D Map Editing

Kazuyuki Fujita, Daigo Hayashi (*Tohoku University*)

Kotaro Hara (*Singapore Management University*)

Kazuki Takashima, Yoshifumi Kitamura (*Tohoku University*)

LBW287: ViTune: A Visualizer Tool to Allow the Deaf and Hard of Hearing to See Music With Their Eyes

Jordan Aiko Deja (*De La Salle University & University of Primorska*)

Alexczar Dela Torre, Hans Joshua Lee, Jose Florencio Ciriaco, IV, Carlo Miguel Eroles

(*De La Salle University*)

LBW288: User-oriented Generation of Contextual Visualization Sequences

Yu-Rong Cao (*National Chiao Tung University*)

Jia-Yu Pan (*Google Inc.*)

Wen-Chieh Lin (*National Chiao Tung University*)

LBW289: Interactive Parallel Coordinates for Parametric Design Space Exploration

Arefin Mohiuddin, Robert Woodbury (*Simon Fraser University*)

LBW290: Analyzing Demographic Bias in Artificially Generated Facial Pictures

Joni Salminen (*Qatar Computing Research Institute & University of Turku*)

Soon-gyo Jung, Shammur, Bernard J. Jansen (*Qatar Computing Research Institute*)

LBW291: ClusterLens: A Focus+Context Approach to Multi-Resolution Spatial Clustering

Chong Zhang, Richie Carmichael (*Environmental Systems Research Institute*)

Zhengcong Yin (*Texas A&M University*)

Xi Gong (*University of New Mexico*)

LBW292: DeepScope: HCI Platform for Generative Cityscape Visualization

Ariel Noyman, Kent Larson (*Massachusetts Institute of Technology*)

LBW293: Capturing the Practices, Challenges, and Needs of Transportation Decision-Makers

Nasim Sharbatdar, Yassine Lamine, Brigitte Milord, Catherine Morency, Jinghui Cheng

(*Polytechnique Montreal*)

LBW294: AI-generated vs. Human Artworks. A Perception Bias Towards Artificial Intelligence?

Martin Ragot, Nicolas Martin (*IRT b<>com*)

Salomé Cojean (*Université d'Angers*)

LBW295: Towards an Empirical Cost Model for Mental Password Algorithms

Enka Blanchard (*Loria, Université de Lorraine*)

Ted Selker (*Selker Design Research*)

Florentin Waligorski (*Observatoire de Paris*)

LBW296: Interacting with Linked Data: A Survey from the SIGCHI Perspective

Alessio De Santo, Adrian Holzer (*University of Neuchâtel*)

LBW297: A Formative Study on Designing Accurate and Natural Figure Captioning Systems

Xin Qian (*University of Maryland*)

Eunyee Koh, Fan Du, Sungchul Kim (*Adobe Research*)

Joel Chan (*University of Maryland*)

LBW298: Predicting Takeover Performance in Conditionally Automated Driving

Na Du (*University of Michigan – Ann Arbor*)

Feng Zhou (*University of Michigan – Dearborn*)

Elizabeth Pulver (*State Farm Mutual Automobile Insurance Company*)

Dawn Tilbury, Lionel P. Robert (*University of Michigan – Ann Arbor*)

Anuj K. Pradhan (*University of Massachusetts – Amherst*)

X. Jessie Yang (*University of Michigan – Ann Arbor*)

LBW299: Changing Minds: Exploring Brain-Computer Interface Experiences with High School Students

Bryan Hernandez-Cuevas, William Egbert, Andre Denham, Ajay Mehul, Chris S. Crawford (*University of Alabama*)

LBW300: Eat4Thought: A Design of Food Journaling

Yixuan Zhang (*Northeastern University*)

Andrea G. Parker (*Georgia Institute of Technology*)

LBW301: Combining Participatory and ESM: A Hybrid Approach to Collecting Annotated Mobility Data

Hsiu-Chi Chang, Yung-Ju Chang (*National Chiao Tung University*)

Mark W. Newman (*University of Michigan – Ann Arbor*)

Chih-Hsin Lin (*National Chiao Tung University*)

LBW302: ATHack: Co-Design and Education in Assistive Technology Development

Jaya Narain, Ishwarya Ananthabhotla, Samuel Mendez, Cameron Taylor, Hosea Siu

(*Massachusetts Institute of Technology*)

Lora Brugnaro (*Independent Researcher*)

Adriana Mallozzi (*Puffin Innovations*)

LBW303: Understanding User Perceptions of Robot's Delay, Voice Quality-Speed Trade-off and GUI during Conversation

Zhenhui Peng (*Hong Kong University of Science and Technology*)

Kaixiang Mo, Xiaogang Zhu, Junlin Chen, Zhijun Chen, Qian Xu (*Webank*)

Xiaojuan Ma (*Hong Kong University of Science and Technology*)

LBW304: A Privacy-Preserving Framework for Collecting Demographic Information

Afra Mashhadi (*University of Washington*)

LBW305: Understanding Window Management Interactions in AR Headset + Smartphone Interface

Jie Ren, Yueling Weng, Chengchi Zhou, Chun Yu, Yuanchun Shi (*Tsinghua University*)

LBW306: Are Two Heads Better than One? Exploring Two-Party Conversations for Car Navigation Voice Guidance

Briane Paul V. Samson (*Future University Hakodate & De La Salle University*)

Yasuyuki Sumi (*Future University Hakodate*)

LBW307: Adopting an African Standpoint in HCI4D: A Provocation

Muhammad Sadi Adamu (*Lancaster University*)

LBW308: Effect of Confidence Indicators on Trust in AI-Generated Profiles

Tommy Buzzese, Irena Gao, Griffin Dietz, Christina Ding, Alyssa Romanos (*Stanford University*)

LBW309: How Domain Experts Structure Their Exploratory Data Analysis: Towards a Machine-Learned Storyline

Antoine Barczewski (*BlaBlaCar*)

Anastasia Bezerianos (*University Paris-Sud, CNRS, INRIA, Université Paris-Saclay*)

Nadia Boukhelifa (*INRAE, Université Paris-Saclay*)

LBW310: Negative Emotion, Positive Performance? A Glimpse into Emotional Influences on Moving Target Selection

Jin Huang (*Chinese Academy of Sciences*)

Xiaolan Peng (*Institute of Software, Chinese Academy of Sciences*)

Rui Chen, Shengcui Duan (*Shenzhen Institutes of Advanced Technology*)

Feng Tian, Hongan Wang (*Institute of Software, Chinese Academy of Sciences*)

LBW311: Designing Real-time, Continuous Emotion Annotation Techniques for 360° VR Videos

Tong Xue (*Beijing Institute of Technology and Centrum Wiskunde & Informatica*)

Surjya Ghosh (*Centrum Wiskunde & Informatica (CWI)*)

Gangyi Ding (*Beijing Institute of Technology*)

Abdallah El Ali (*Centrum Wiskunde & Informatica (CWI)*)

Pablo Cesar (*Centrum Wiskunde & Informatica and Delft University of Technology*)

LBW312: Motive Structure Underlying the Use of Intelligent Connected Vehicles

Li Lin, Jingyu Zhang, Liang Zhang, Jianqin Cao (*Institute of Psychology Chinese Academy of Sciences & University of Chinese Academy of Sciences*)

Jifang Wang, Xiaojun Luo, Ya Wang (*Baidu Intelligent Driving Experience Design Center*)

LBW313: Robot Gendering: Influences on Trust, Occupational Competency, and Preference of Robot Over Human

Kantwon Rogers, De'Aira Bryant, Ayanna Howard (*Georgia Institute of Technology*)

LBW314: Things Change: Comparing Results Using Historical Data and User Testing for Evaluating a Recommendation Task

Soon-Gyo Jung (*Hamad Bin Khalifa University*)

Joni Salminen (*Hamad Bin Khalifa University & University of Turku*)

Shammur A. Chowdhury (*Hamad Bin Khalifa University*)

Dianne Ramirez Robillos (*University of the Philippines*)

Bernard J. Jansen (*Hamad Bin Khalifa University*)

LBW315: Investigating the Importance of First Impressions and Explainable AI with Interactive Video Analysis

Mahsan Nourani, Donald R. Honeycutt, Jeremy E. Block (*University of Florida*)

Chiradeep Roy, Tahrima Rahman (*University of Texas in Dallas*)

Eric D. Ragan (*University of Florida*)

Vibhav Gogate (*University of Texas in Dallas*)

LBW316: Are All the Frames Equally Important?

Oleksii Sidorov, Marius Pedersen (*Norwegian University of Science and Technology*)

Sumit Shekhar (*Adobe Research*)

Nam Wook Kim (*Harvard University*)

LBW317: Learning from Gamettes: Imitating Human Behavior in Supply Chain Decisions

Omid Mohaddesi, Tiago Machado, Casper Harteveld (*Northeastern University*)

LBW318: Modeling Trust Dynamics in Human-robot Teaming: A Bayesian Inference Approach

Yaohui Guo (*University of Michigan – Ann Arbor*)

Chongjie Zhang (*Tsinghua University*)

X. Jessie Yang (*University of Michigan – Ann Arbor*)

LBW319: Be Mine: Contextualization of Ownership Research in HCI

Anastasia Kuzminykh (*University of Waterloo*)

Jessica R. Cauchard (*Ben Gurion University of the Negev*)

LBW320: Beyond Cognitive Ability: Susceptibility to Fake News Is Also Explained by Associative Inference

Sian Lee, Joshua P. Forrest, Jessica Strait, Haeseung Seo, Dongwon Lee, Aiping Xiong

(*The Pennsylvania State University*)

LBW321: Low Engagement As a Deliberate Practice of Remote Participants in Video Meetings

Anastasia Kuzminykh (*University of Waterloo*)
Sean Rintel (*Microsoft Research*)

LBW322: Urban Immersion: A Web-based Crowdsourcing Platform for Collecting Urban Space Perception Data

Qianhui Liang (*Massachusetts Institute of Technology*)
Meijie Wang (*Worcester Polytechnic Institute*)
Takehiko Nagakura (*Massachusetts Institute of Technology*)

LBW323: Trust Dynamics in Human-AV (Automated Vehicle) Interaction

Ruikun Luo (*University of Michigan – Ann Arbor*)
Jian Chu (*The University of Texas at Austin*)
X. Jessie Yang (*University of Michigan – Ann Arbor*)

LBW324: Towards Progress Assessment for Adaptive Hints in Educational Virtual Reality Games

Tobias Drey, Pascal Jansen, Fabian Fischbach (*Ulm University*)
Julian Frommel (*University of Saskatchewan*)
Enrico Rukzio (*Ulm University*)

LBW325: It's Not Always Better When We're Together: Effects of Being Accompanied in Virtual Reality

Rufat Rzayev, Florian Habler, Polina Ugnivenko, Niels Henze, Valentin Schwind (*University of Regensburg*)

LBW326: Designing a Social VR Clinic for Medical Consultations

Jie Li, Guo Chen, Huib de Ridder (*Delft University of Technology*)
Pablo Cesar (*Centrum Wiskunde & Informatica and Delft University of Technology*)

LBW327: Towards a Design Space for External Communication of Autonomous Vehicles

Mark Colley, Enrico Rukzio (*Ulm University*)

LBW328: Unveiling the Lack of Scalability in Research on External Communication of Autonomous Vehicles

Mark Colley, Marcel Walch, Enrico Rukzio (*Ulm University*)

LBW329: Designing Exocentric Pedestrian Navigation for AR Head Mounted Displays

Tram Thi Minh Tran, Callum Parker (*University of Sydney*)

LBW330: A Comparison of Surface and Motion User-Defined Gestures for Mobile Augmented Reality

Ze Dong, Thammathip Piumsomboon, Jingjing Zhang, Adrian Clark (*University of Canterbury*)
Huidong Bai (*University of Auckland*)
Rob Lindeman (*University of Canterbury*)

LBW331: Cold Comfort Matters - How Channel-Wise Emotional Strategies Help in a Customer Service Chatbot

Mingming Liu, Qicheng Ding, Yu Zhang, Guoguang Zhao, Changjian Hu, Jiangtao Gong, Penghui Xu, Yu Zhang, Liuxin Zhang, Qianying Wang (*Lenovo Research*)

LBW332: Touch Digitality: Affordance Effects of Visual Properties on Gesture Selection

Sangyeon Kim, Sangwon Lee (*Sungkyunkwan University*)

LBW333: Visualizing Differences to Improve End-User Understanding of Trigger-Action Programs

Valerie Zhao, Lefan Zhang (*University of Chicago*)
Bo Wang (*University of Science and Technology of China & University of Chicago*)
Shan Lu, Blase Ur (*University of Chicago*)

LBW334: Autonomous Vehicle-Pedestrian Interaction Across Cultures: Towards Designing Better External Human Machine Interfaces (eHMIs)

Champika Ranasinghe (*University of Twente*)
Kai Holländer (*Ludwig Maximilian University of Munich*)
Rebecca Currano, David Sirkin, Dylan Moore (*Stanford University*)
Stefan Schneegass (*University of Duisburg-Essen*)
Wendy Ju (*Cornell Tech*)

LBW335: Understanding User-Bot Interactions for Small-Scale Automation in Open-Source Development

Dongyu Liu, Micah J. Smith, Kalyan Veeramachaneni (*Massachusetts Institute of Technology*)

LBW336: Facilitating Media Distribution with Monetary Incentives

Devansh Mehta (*VoiceDeck Technologies*)
Alok Sharma (*DN Developers*)
Ramaravind K. Kommiya Mothilal (*Microsoft Research India*)
Chiraag (*CGNet Swara*)
Anurag Shukla (*IIT - Naya Raipur*)
Vishnu Prasad (*VoiceDeck Technologies*)
William Thies (*Microsoft Research India*)
Venkanna U (*IIT - Naya Raipur*)
Colin Scott, Amit Sharma (*Microsoft Research India*)

LBW337: Emotional Maps for User Experience Research in the Wild

Vanessa Georges (*Polytechnique Montréal*)
François Courtemanche, Marc Fredette (*HEC Montreal*)
Philippe Doyon-Poulin (*Polytechnique Montréal*)

LBW338: "I Can Feel Your Empathic Voice": Effects of Nonverbal Vocal Cues in Voice User Interface

Jieun Kim, Woochan Kim, Jungwoo Nam, Hayeon Song (*Sungkyunkwan University*)

LBW339: Kinetic AR: A Framework for Robotic Motion Systems in Spatial Computing

Anna Fuste, Ben Reynolds, James Hobin, Valentin Heun (*PTC*)

LBW340: Dandelion Diagram: Aggregating Positioning and Orientation Data in the Visualization of Classroom Proxemics

Pengcheng An (*Eindhoven University of Technology*)
Saskia Bakker (*Philips Design*)
Sara Ordanovski, Chris L.E. Paffen (*Utrecht University*)
Ruurd Taconis, Berry Eggen (*Eindhoven University of Technology*)

LBW341: Design Considerations for Data-Driven Dashboards: Supporting Facilitation Tasks for Open-Ended Learning

Elham Beheshti, Leilah Lyons (*New York Hall of Science*)
Aditi Mallavarapu (*University of Illinois at Chicago*)
Betty Wallingford, Stephen Uzzo (*New York Hall of Science*)

LBW342: A Tool to Add a Tutee Agent in a Monologue Lecture Video Improves Students' Watching Experience

Ari Nugraha, Tomoyuki Harada, Izhar Almizan Wahono, Tomoo Inoue (*University of Tsukuba*)

LBW343: Can Bullying Detection Systems Help in School Violence Scenarios?: A Teachers' Perspective

Jaeyoung Kim, Thanh Dung Ho, Jihwan Kim, Youngki Lee, Jinwook Seo (*Seoul National University*)

LBW344: Guessing or Solving?: Exploring the Use of Motion Features from Educational Game Logs

Hyunjin Shin, Bugeun Kim, Gahgene Gweon (*Seoul National University*)

LBW345: Exploring the Effect of Group Size on Goal Setting & Sharing to Reduce Procrastination: Lessons Learned in a Field Study

Chia En Hsueh, Hsinju Lee, Yu-Han Lu, Nien-Hsin Wu, Yu-Wei Wu, Shao En Lin, Pei-Yi Kuo (*National Tsing Hua University*)

LBW346: Bugs as Features: Describing Patterns in Student Code through a Classification of Bugs

Yana Malysheva, Caitlin Kelleher (*Washington University in St. Louis*)

LBW347: Learning Rust: How Experienced Programmers Leverage Resources to Learn a New Programming Language

Parastoo Abtahi, Griffin Dietz (*Stanford University*)

LBW348: Factoring User Experience into the Security and Privacy Design of Smart Home Devices: A Case Study

George Chalhoub, Ivan Flechais (*University of Oxford*)

Norbert Nithala (*Michigan State University*)

Ruba Abu-Salma (*University College London*)

Elie Tom (*Michigan State University*)

LBW349: A Conversational Agent to Improve Response Quality in Course Evaluations

Thiemo Wambsganss, Rainer Winkler (*University of St.Gallen*)

Matthias Söllner (*University of Kassel & University of St.Gallen*)

Jan Marco Leimeister (*University of St.Gallen & University of Kassel*)

LBW350: Where Are My Parents?: Information Needs of Hospitalized Children

Erin Beneteau, Sonali R. Mishra, Shefali Haldar, Calvin Apodaca (*University of Washington*)

Ari Pollack (*Seattle Children's Hospital*)

Wanda Pratt (*University of Washington*)

LBW351: Turnaround: Exploring Care Relations in Dementia Through Design

Maarten Houben, Benjamin Lehn, Noa van den Brink, Sabeth Diks, Jasmijn Verhoef (*Eindhoven University of Technology*)

Rens Brankaert (*University of Technology Eindhoven & Fontys University of Applied Sciences*)

LBW352: Stress Monitoring using Multimodal Bio-sensing Headset

Joong Hoon Lee (*Korea University*)

Hannes Gamper, Ivan Tashev (*Microsoft Research*)

Steven Dong, Siyuan Ma, Jacqueline Remaley (*Microsoft*)

James D. Holbery (*Tactual Labs*)

Sang Ho Yoon (*Microsoft*)

LBW353: Virtual Reality for Individuals with Occasional Paranoid Thoughts

Leonie Ascone (*University Medical Center Hamburg-Eppendorf*)

Karolin Ney (*Universität Hamburg & University Medical Center Hamburg-Eppendorf*)

Fariba Mostajeran, Frank Steinicke (*Universität Hamburg*)

Steffen Moritz, Jürgen Gallinat (*University Medical Center Hamburg-Eppendorf*)

Simone Kühn (*University Medical Center Hamburg-Eppendorf*)

& Max Planck Institute for Human Development)

LBW354: Physiological and Psychological Restoration in Matched Real and Virtual Natural Environments

Tomi Nukarinen, Howell O. Istance, Jussi Rantala, John Mäkelä, Kalevi Korpela, Kimmo Ronkainen, Veikko Surakka, Roope Raisamo (*Tampere University*)

LBW355: From Intentions to Successful Action: Supporting the Creation and Realization of Implementation Intentions

Toufique Bharmal, Marc Hassenzahl, Matthias Laschke (*University of Siegen*)

LBW356: Developing Aids to Assist Acute Stroke Diagnosis

Vishwajith Ramesh, Stephanie Kim, Hong-An Nguyen, Kunal Agrawal, Brett C. Meyer, Nadir Weibel (*University of California, San Diego*)

LBW357: Promoting Wellbeing with Sunny, a Chatbot that Facilitates Positive Messages within Social Groups

Jaya Narain, Tina Quach, Monique Davey, Hae Won Park, Cynthia Breazeal, Rosalind Picard (*Massachusetts Institute of Technology*)

LBW358: Hard Constraints: Why Telemanipulated Surgical Robots Affect Creative Tool Use

Ignacio Avellino (*Sorbonne Université, CNRS, ISIR & University of Maryland Baltimore County*)

**LBW359: Engaging Stakeholders to Design an Intelligent Decision Support Tool
in the Occupational Health Context**

Xipei Ren (*Eindhoven University of Technology*)

Gabriele Spina, Babs Faber, Anna Geraedts (*HumanTotalCare B.V.*)

**LBW360: Breakbeat Narratives: A Personalized, Conversational Interactive Storytelling
System for Museum Education**

Danielle Marie Olson, Nouran Soliman (*Massachusetts Institute of Technology*)

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