Thursday Full Session Content
alt.chi session: The alt.chi Special
Thursday - 09:00 - 10:20  Room: Carron 2
Chair: Ann Light

Dissent by Design: A Manifesto for CHI Manifestos
- Julian Hanna (Madeira Interactive Technologies Institute, Funchal, Portugal)
- Simone Ashby (University of Madeira & Madeira Interactive Technologies Institute, Funchal, Portugal)
- Sónia Matos (Madeira Interactive Technologies Institute, Funchal, Portugal)
- Alexis Faria (University of Madeira & Madeira Interactive Technologies Institute, Funchal, Portugal)
- Ricardo Rodrigues (Madeira Interactive Technologies Institute, Funchal, Portugal)

Case study session: Health and Wellbeing
Thursday - 09:00 - 10:20  Room: Argyll 1 CROWNE
Chair: Lynne Baillie

HCl and Menopause: Designing With and Around the Aging Body
- Agatha Tutia (University of Washington, Seattle, WA, USA)
- Kelda Baljon (University of Washington, Seattle, WA, USA)
- Lan Vu (University of Washington, Seattle, WA, USA)
- Daniela K. Rosner (University of Washington, Seattle, WA, USA)

ROOT: A Multidisciplinary Approach to Urban Health Challenges with HCI
- Ida Damen (Eindhoven University of Technology, Eindhoven, Netherlands)
- Rens Brankaert (University of Technology Eindhoven, Eindhoven, Netherlands)
- Mengru Xue (Eindhoven University of Technology, Eindhoven, Netherlands)
- Xiaoyue Chen (Eindhoven University of Technology, Eindhoven, Netherlands)
- Anne Grave (Eindhoven University of Technology, Eindhoven, Netherlands)
- Steven Vos (Eindhoven University of Technology, Eindhoven, Netherlands)

Social Media as a Passive Sensor in Longitudinal Studies of Human Behavior and Wellbeing
- Koustuv Saha (Georgia Institute of Technology, Atlanta, GA, USA)
- Ayse E. Bayraktaroglu (University of California, Irvine, Irvine, CA, USA)
- Andrew T. Campbell (Dartmouth College, Hanover, NH, USA)
- Nitesh V. Chawla (University of Notre Dame, South Bend, IN, USA)
- Munmun De Choudhury (Georgia Institute of Technology, Atlanta, GA, USA)
- Sidney K. D’Mello (University of Colorado Boulder, Boulder, CO, USA)
- Anind K. Dey (University of Washington, Seattle, WA, USA)
- Ge Gao (University of California, Irvine, Irvine, CA, USA)
- Julie M. Gregg (University of Colorado Boulder, Boulder, CO, USA)
- Krithika Jagannath (University of California, Irvine, Irvine, CA, USA)
- Gloria Mark (University of California, Irvine, Irvine, CA, USA)
- Gonzalo J. Martinez (University of Notre Dame, Notre Dame, IN, USA)
- Stephen M. Mattingly (University of Notre Dame, South Bend, IN, USA)
- Edward Moskal (University of Notre Dame, Notre Dame, IN, USA)
- Anusha Sirigiri (Dartmouth College, Hanover, NH, USA)
- Aaron Striegel (University of Notre Dame, South Bend, IN, USA)
- Dong Whi Yoo (Georgia Institute of Technology, Atlanta, GA, USA)

Multimodal Speech-based Dialogue for the Mini-Mental State Examination
- Alexander Prange (German Research Center for Artificial Intelligence (DFKI GmbH), Saarbrücken, Germany)
- Mira Niemann (German Research Center for Artificial Intelligence (DFKI GmbH), Saarbrücken, Germany)
- Antje Latendorf (Charité - Universitätsmedizin Berlin, Berlin, Germany)
- Anika Steinert (Charité - Universitätsmedizin Berlin, Berlin, Germany)
- Daniel Sonntag (German Research Center for Artificial Intelligence (DFKI), Saarbrücken, Germany)

Course: Prototyping Transparent and Flexible Electrochromic Displays
Thursday - 09:00 - 10:20  Room: Castle 3 CROWNE

Course: Communicating your Research to the Public and the Press
Thursday - 09:00 - 10:20  Room: Island B CROWNE
Chair: Helen Pilcher

Course: Design for user interaction with intelligent systems
Thursday - 09:00 - 10:20  Room: Argyll 2 CROWNE

Course: Eye Tracking Methodology in Screen-based Usability Testing
Thursday - 09:00 - 10:20  Room: Argyll 3 CROWNE
Course: User Experience (UX) Research in Games
Thursday - 09:00 - 10:20 Room: Castle 1 CROWNE

User Experience (UX) Research in Games
- Lennart E. Nacke (University of Waterloo, Waterloo, Canada)
- Pejman Mirza-Babaei (University of Ontario Institute of Technology, Oshawa, Canada)
- Anders Drachen (University of York, York, United Kingdom)

Course: Communication through Visualization
Thursday - 09:00 - 10:20 Room: Castle 2 CROWNE

Conversation Design: Principles, Strategies, and Practical Application
- Margaret Urban (Google, LLC, Mountain View, CA, USA)
- Stephen Maalley (Google UK Ltd., London, United Kingdom)

Miscellaneous: Speaker prep room
Thursday - 09:00 - 10:20 Room: Etive

Paper session: Communication through Visualization
Thursday - 09:00 - 10:20 Room: Hall 1
Chair: Nediyana Daskalova

Data is Personal: Attitudes and Perceptions of Data Visualization in Rural Pennsylvania Best Paper Award
- Evan M. Peck (Bucknell University, Lewisburg, PA, USA)
- Sofia E. Ayuso (Bucknell University, Lewisburg, PA, USA)
- Omar El-Etr (Bucknell University, Lewisburg, PA, USA)

DataSelfie: Empowering People to Design Personalized Visuals to Represent Their Data
- Nam Wook Kim (Harvard University, Cambridge, MA, USA)
- Hyejin Im (Tufts University, Medford, MA, USA)
- Nathalie Henry Riche (Microsoft Research, Redmond, WA, USA)
- Alicia Wang (Troy High School, Fullerton, CA, USA)
- Krzysztof Gajos (Harvard University, Cambridge, MA, USA)
- Hanspeter Pfister (Harvard University, Cambridge, MA, USA)

A Bayesian Cognition Approach to Improve Data Visualization
- Yea-Seul Kim (University of Washington, Seattle, WA, USA)
- Logan A. Walls (University of Washington, Seattle, WA, USA)
- Peter Krafft (University of Washington, Seattle, WA, USA)
- Jessica Hullman (Northwestern University, Evanston, IL, USA)

Concept-Driven Visual Analytics: an Exploratory Study of Model- and Hypothesis-Based Reasoning with Visualizations
- In Kwon Choi (Indiana University-Purdue University Indianapolis, Indianapolis, IN, USA)
- Taylor Childers (Indiana University-Purdue University Indianapolis, Indianapolis, IN, USA)
- Nirmal Kumar Raveendranath (Indiana University-Purdue University Indianapolis, Indianapolis, IN, USA)
- Swati Mishra (Cornell University, Ithaca, NY, USA)
- Kyle Harris (Indiana University-Purdue University Indianapolis, Indianapolis, IN, USA)
- Khairi Reda (Indiana University-Purdue University Indianapolis, Indianapolis, IN, USA)

Thermoral: An Easy-To-Deploy Temporal Thermographic Sensor System to Support Residential Energy Audits
- Matthew Louis Mauriello (University of Maryland, College Park, College Park, MD, USA)
- Brenna McNally (University of Maryland, College Park, College Park, MD, USA)
- Jon E. Froehlich (University of Washington, Seattle, WA, USA)

Designing Participatory Sensing with Remote Communities to Conserve Endangered Species
- Thersher Dema (Queensland University of Technology, Brisbane, Australia)
- Margot Breton (Queensland University of Technology, Brisbane, Australia)
- Paul Roe (Queensland University of Technology, Brisbane, Australia)

Evaluating Sustainable Interaction Design of Digital Services: The Case of YouTube Honourable Mention
- Chris Preist (University of Bristol, Bristol, United Kingdom)
- Daniel Schien (University of Bristol, Bristol, United Kingdom)
- Paul Shabajee (University of Bristol, Bristol, United Kingdom)

The Breaking Hand: Skills, Care, and Sufferings of the Hands of an Electronic Waste Worker in Bangladesh Honourable Mention
- Mohammad Rashidujjaman Ritat (University of Toronto, Toronto, Canada)
- Hasan Mahmud Prattoy (Bangladesh University of Engineering and Technology, Dhaka, Bangladesh)
- Syed Ishaque Ahmed (University of Toronto, Toronto, Canada)

An Evaluation of Radar Metaphors for Providing Directional Stimuli Using Non-Verbal Sound
- Brendan Cassidy (University of Central Lancashire, Preston, United Kingdom)
- Janet C. Read (University of Central Lancashire, Preston, United Kingdom)
- I. Scott MacKenzie (York University, Toronto, Canada)

A Comparison of Notification Techniques for Out-of-View Objects in Full-Coverage Displays
- Julian Petford (University of St Andrews, St Andrews, United Kingdom)
- Iain Carson (University of St Andrews, St Andrews, United Kingdom)
- Miguel A. Nacenta (University of St Andrews, St Andrews, United Kingdom)
- Carl Gutwin (University of Saskatchewan, Saskatoon, Canada)
Hey Google, Can I Ask You Something in Private?
- Eugene Cho (Pennsylvania State University, University Park, PA, USA)

Detecting Perception of Smartphone Notifications Using Skin Conductance Responses **Honourable Mention**
- Pascal E. Fortin (McGill University, Montreal, Canada)
- Elisabeth Sulmont (McGill University, Montreal, Canada)
- Jeremy Cooperstock (McGill University, Montreal, Canada)

Paper session: The One with Robots
Thursday - 09:00 - 10:20  Room: Forth
Chair: Jessica L. Korte

**Geppetto: Enabling Semantic Design of Expressive Robot Behaviors Best Paper Award**
- Ruta Desai (Carnegie Mellon University, Pittsburgh, PA, USA)
- Fraser Anderson (Autodesk Research, Toronto, Canada)
- Justin Matejka (Autodesk Research, Toronto, Canada)
- Stelian Coros (ETH Zurich, Zurich, Switzerland)
- James McCann (Carnegie Mellon University, Pittsburgh, PA, USA)
- George Fitzmaurice (Autodesk Research, Toronto, Canada)
- Tovi Grossman (Autodesk Research, Toronto, Canada)

**LightBee: A Self-Levitating Light Field Display for Hologrammatic Telepresence**
- Xujing Zhang (Queen's University, Kingston, Canada)
- Sean Braley (Queen's University, Kingston, Canada)
- Calvin Rubens (Queen's University, Kingston, Canada)
- Timothy Merritt (Aalborg University, Aalborg, Denmark)
- Roel Vertegaal (Queen's University, Kingston, Canada)

**Expression of Curiosity in Social Robots: Design, Perception, and Effects on Behaviour**
- Jessy Ceha (University of Waterloo, Waterloo, Canada)
- Nalin Chhibber (University of Waterloo, Waterloo, Canada)
- Joslin Goh (University of Waterloo, Waterloo, Canada)
- Corina McDonald (University of Waterloo, Waterloo, Canada)
- Pierre-Yves Oudeyer (Inria Bordeaux Sud-Ouest, Talence, France)
- Edith Law (University of Waterloo, Waterloo, Canada)

**Trigger-Action Programming for Personalising Humanoid Robot Behaviour**
- Nicola Leonardi (CNR-ISTI, Pisa, Italy)
- Marco Manca (CNR-ISTI, Pisa, Italy)
- Fabio Paternò (CNR-ISTI, Pisa, Italy)
- Carmen Santoro (CNR-ISTI, Pisa, Italy)

Paper session: Redesigning Health Infrastructure
Thursday - 09:00 - 10:20  Room: Boisdale 2
Chair: Swamy Ananthanarayan

**Bring the Outside In: Providing Accessible Experiences Through VR for People with Dementia in Locked Psychiatric Hospitals**
- Luma Tabbaa (University of Kent, Kent, United Kingdom)
- Chee Siang Ang (University of Kent, Canterbury, United Kingdom)
- Vienna Rose (St. Andrew's Healthcare, Northampton, United Kingdom)
- Panote Siriaraya (Kyoto Sangyo University, Kyoto, Japan)
- Inga Stewart (St Andrew's Healthcare, Northampton, United Kingdom)
- Maria Matsangidou (University of Kent, Canterbury, United Kingdom)

**Making Healthcare Infrastructure Work: Unpacking the Infrastructuring Work of Individuals Honourable Mention**
- Xinning Gui (University of California, Irvine, Irvine, CA, USA)
- Yunan Chen (University of California, Irvine, Irvine, CA, USA)

**Beyond the Patient Portal: Supporting Needs of Hospitalized Patients**
- Shefali Haldar (University of Washington, Seattle, WA, USA)
- Sonali R. Mishra (University of Washington, Seattle, WA, USA)
- Maher Khelifi (University of Washington, Seattle, WA, USA)
- Wanda Pratt (University of Washington, Seattle, WA, USA)

**Unremarkable AI: Fitting Intelligent Decision Support into Critical, Clinical Decision-Making Processes Best Paper Award**
- Qian Yang (Carnegie Mellon University, Pittsburgh, PA, USA)
- Aaron Steinfeld (Carnegie Mellon University, Pittsburgh, PA, USA)
- John Zimmerman (Carnegie Mellon University, Pittsburgh, PA, USA)

Paper session: Playing and AI
Thursday - 09:00 - 10:20  Room: Hall 2
Chair: Günter Wallner

**Friend, Collaborator, Student, Manager: How Design of an AI-Driven Game Level Editor Affects Creators**
- Matthew Guzdial (Georgia Institute of Technology, Atlanta, GA, USA)
- Nicholas Liao (Georgia Institute of Technology, Atlanta, GA, USA)
- Jonathan Chen (Georgia Institute of Technology, Atlanta, GA, USA)
- Shao-Yu Chen (Georgia Institute of Technology, Atlanta, GA, USA)
- Shukan Shah (Georgia Institute of Technology, Atlanta, GA, USA)
- Vishwa Shah (Georgia Institute of Technology, Atlanta, GA, USA)
- Joshua Reno (Georgia Institute of Technology, Atlanta, GA, USA)
- Gillian Smith (Worcester Polytechnic Institute, Worcester, MA, USA)
- Mark O Riedel (Georgia Institute of Technology, Atlanta, GA, USA)

**Dynamic Difficulty Adjustment Impact on Players’ Confidence**
- Thomas Constant (Conservatoire National des Arts et Métiers, Paris, France)
- Guillaume Levieux (Conservatoire National des Arts et Métiers, Paris, France)

**Implicit Communication of Actionable Information in Human-AI teams Honourable Mention**
- Claire Liang (Cornell University, Ithaca, NY, USA)
- Julia Profi (Cornell University, Ithaca, NY, USA)
- Erik Andersen (Cornell University, Ithaca, NY, USA)
- Ross A. Knepper (Cornell University, Ithaca, NY, USA)

**Friending to Flame: How Social Features Affect Player Behaviours in an Online Collectible Card Game**
- Selen Türkay (Queensland University of Technology, Brisbane, Australia)
- Sonam Adinolfi (Queensland University of Technology, Brisbane, Australia)

**Room: Carron 1**
Chair: Zhicong Lu

**Understanding and Mitigating Worker Biases in the Crowdsourced Collection of Subjective Judgments**
- Christoph Huber (Leibniz Universität Hannover, Hannover, Germany)
- Besnik Fetahu (Leibniz Universität Hannover, Hannover, Germany)
- Ujwan Gadiraju (Leibniz Universität Hannover, Hannover, Germany)

**Volunteer Moderators in Twitch Micro Communities: How They Get Involved, the Roles They Play, and the Emotional Labor They Experience**
- Donghee Yvette Wohn (New Jersey Institute of Technology, Newark, NJ, USA)
- Dongwook Yoon (University of British Columbia, Vancouver, Canada)

**Room: Dochart 1**
Chair: Kristin Williams

**Empowering End Users in Debugging Trigger-Action Rules**
- Fulvio Como (Politecnico di Torino, Torino, Italy)
- Luigi De Russis (Politecnico di Torino, Torino, Italy)
- Alberto Monge Roffarello (Politecnico di Torino, Torino, Italy)

**Heimdall: A Remotely Controlled Inspection Workbench For Debugging Microcontroller Projects Honourable Mention**
- Mitchell Karchemsy (University of California, Berkeley, Berkeley, CA, USA)
- J.D. Zamfirescu-Pereira (Cornell Tech, New York, NY, USA)
- Kuan-Ju Wu (University of California, Berkeley, Berkeley, CA, USA)
- François Guimbretière (Cornell University, Ithaca, NY, USA)
- Bjorn Hartmann (University of California, Berkeley, Berkeley, CA, USA)

**Room: Alsh 2**
Chair: Arnaud Prouzeau

**Mixed Reality Remote Collaboration Combining 360 Video and 3D Reconstruction Honourable Mention**
- Theophilus Teo (University of South Australia, Adelaide, Australia)
- Louise Lawrence (University of South Australia, Adelaide, Australia)
- Gun A. Lee (University of South Australia, Adelaide, Australia)
- Mark Billinghurst (University of South Australia, Adelaide, Australia)
- Matt Adcock (CSIRO, Canberra, Australia)

**Can Mobile Augmented Reality Stimulate a Honeypot Effect? Observations from Santa’s Lil Helper Honourable Mention**
- Ryan M. Kelly (The University of Melbourne, Melbourne, Australia)
- Hasan Shahid Ferdous (The University of Melbourne, Melbourne, Australia)
- Niels Wouters (The University of Melbourne, Melbourne, Australia)
- Frank Vetere (The University of Melbourne, Melbourne, Australia)

**Room: Dochart 1**
Chair: Kristin Williams

**Eye-Write: Gaze Sharing for Collaborative Writing**
- Grete Helena Kütt (Pomona College, Claremont, CA, USA)
- Kevin Lee (Pomona College, Claremont, CA, USA)
- Ethan Hardacre (Pomona College, Claremont, CA, USA)
- Alexandra Papoutsaki (Pomona College, Claremont, CA, USA)

**Usability of Gamified Knowledge Learning in VR and Desktop-3D**
- Sebastian Oberdörfer (University of Würzburg, Würzburg, Germany)
- David Heidrich (University of Würzburg, Würzburg, Germany)
- Marc Erich Latoschik (University of Würzburg, Würzburg, Germany)

**Room: Carron 1**
Chair: Zhicong Lu

**Predicting Cognitive Load in Future Code Puzzles**
- Caitlin Kelleher (Washington University in St. Louis, St Louis, MO, USA)
- Wint Hnin (Washington University in St. Louis, St Louis, MO, USA)

**On the Latency of USB-Connected Input Devices**
- Raphael Wimmer (University of Regensburg, Regensburg, Germany)
- Andreas Schmid (University of Regensburg, Regensburg, Germany)
- Florian Bockes (University of Regensburg, Regensburg, Germany)

**Room: Carron 1**
Chair: Zhicong Lu

**Understanding and Mitigating Worker Biases in the Crowdsourced Collection of Subjective Judgments Honourable Mention**
- Matin Yarmand (University of British Columbia, Vancouver, Canada)
- Dongwook Yoon (University of British Columbia, Vancouver, Canada)
- Samuel Dodson (University of British Columbia, Vancouver, Canada)
- Ido Roll (University of British Columbia, Vancouver, Canada)
- Sidney S. Fels (University of British Columbia, Vancouver, Canada)

**Does Who Matter? Studying the Impact of Relationship Characteristics on Receptivity to Mobile IM Messages**
- Hao-Ping Lee (National Chiao Tung University, Hsinchu, Taiwan ROC)
- Kuan-Yin Chen (National Chiao Tung University, Hsinchu, Taiwan ROC)
- Chih-Heng Lin (National Chiao Tung University, Hsinchu, Taiwan ROC)
- Chia-Yu Chen (National Chengchi University, Taipei, Taiwan ROC)
- Yu-Lin Chung (National Tsing Hua University, Hsinchu, Taiwan ROC)
- Yung-Ju Chang (National Chiao Tung University, Hsinchu, Taiwan ROC)
- Chien-Ru Sun (National Chengchi University, Taipei, Taiwan ROC)

**Paper session: Using Technology at Home and Work**

**Thursday - 09:00 - 10:20  Room: Clyde Auditorium**

**Chair: Ragad Allwihan**

**Designing Second-Screening Experiences for Social Co-Selection and Critical Co-Viewing of Reality TV**
- Tom Feltwell (Northumbria University, Newcastle upon Tyne, United Kingdom)
- Gavin Wood (Northumbria University, Newcastle upon Tyne, United Kingdom)
- Scarlett Rowland (Northumbria University, Newcastle upon Tyne, United Kingdom)
- Kiel S. Long (Northumbria University, Newcastle upon Tyne, United Kingdom)
- Chris Eldsen (Northumbria University, Newcastle upon Tyne, United Kingdom)
- Phillip Brooker (University of Liverpool, Liverpool, United Kingdom)
- John Vines (Northumbria University, Newcastle upon Tyne, United Kingdom)
- Pamela Briggs (Northumbria University, Newcastle upon Tyne, United Kingdom)
- Julie Barnett (University of Bath, Bath, United Kingdom)
- Shauna Lawson (Northumbria University, Newcastle upon Tyne, United Kingdom)

**App Usage Predicts Cognitive Ability in Older Adults**
- Mitchell L. Gordon (Stanford University, Stanford, CA, USA)
- Leon Gatys (Apple Inc., Cupertino, CA, USA)
- Carlos Guestrin (Apple Inc., Cupertino, CA, USA)
- Jeffrey P. Bigham (Apple Inc., Cupertino, CA, USA)
- Andrew Trister (Apple Inc., Cupertino, CA, USA)
- Kayur Patel (Apple Inc., Cupertino, CA, USA)

**Talking about Chat at Work in the Global South: An Ethnographic Study of Chat Use in India and Kenya**
- Moira McGregor (Stockholm University, Stockholm, Sweden)
- Nicola J. Bidwell (International University of Management, University of Windhoek, Namibia)
- Vidya Sarangapani (Newcastle University, Newcastle upon Tyne, United Kingdom)
- Jonathan Appavoo (Boston University, Brookline, MA, USA)
- Jacki O’Neill (Microsoft Research India, Bangalore, India)

**Who Would You Like to Work With?**
- Diego Gómez-Zará (Pontificia Universidad Católica de Chile, Santiago, Chile)
- Matthew Paras (Northwestern University, Evanston, IL, USA)
- Marlon Twyman (Northwestern University, Evanston, IL, USA)
- Jacqueline N. Lane (Harvard Business School, Boston, MA, USA)
- Leslie A. DeChurch (Northwestern University, Evanston, IL, USA)
- Noshir S. Contractor (Northwestern University, Evanston, IL, USA)

**Paper session: Behaviour monitoring, changing, and modeling**

**Thursday - 09:00 - 10:20  Room: Lomond**

**Chair: Vero Vanden Abeele**

**Blending Human and Artificial Intelligence to Support Autistic Children’s Social Communication Skills**
- Kaska Porayaska-Pomsta (University College London, London, United Kingdom)
- Alyssa Alcorn (University College London, London, United Kingdom)
- Katerina Avramides (University College London, London, United Kingdom)
- Sandra Beaule (Birkbeck College, London, United Kingdom)
- Sara Bernardini (Royal Holloway, London, United Kingdom)
- Mary Ellen Foster (University of Glasgow, Glasgow, United Kingdom)
- Christopher Frauenberger (TU Wien, Vienna, Austria)
- Judith Good (University of Sussex, Falmer, Brighton, United Kingdom)
- Karen Goldberg (University of Birmingham, Birmingham, United Kingdom)
- Wendy Elizabeth Keay-Bright (Cardiff Metropolitan University, Cardiff, United Kingdom)
- Lila Kossyvaki (University of Birmingham, Birmingham, United Kingdom)
- Oliver Lemon (Heriot Watt University, Edinburgh, United Kingdom)
- Marilena Mademtzi (Yale University, New Haven, CT, USA)
- Rachel Menzies (University of Dundee, Dundee, United Kingdom)
- Helen Pain (University of Edinburgh, Edinburgh, United Kingdom)
- Gnanathusharan Rajendran (Heriot-Watt University, Edinburgh, United Kingdom)
- Annalu Waller (University of Dundee, Dundee, United Kingdom)
- Sam Wass (University of East London, London, United Kingdom)
- Tim J Smith (Birkbeck College, London, United Kingdom)

**Digital Behaviour Change Interventions to Break and Form Habits**
- Charlie Pinder (NO affiliation, X, UAE)
- Jo Vermeulen (Aarhus University, Aarhus, Denmark)
Thursday - 10:20 - 11:00
Interactivity: Interactivity
Break: Break and Interactivity
Thursday - 09:00 - 10:20
Special Interest Group (SIG): Evaluating Technologies with and for Disabled Children
Room: Hall 4
Thursday - 10:20 - 11:00
Evaluating Technologies with and for Disabled Children
Room: Island A CROWNE
Room: Hall 4

INT001: ScaleDial: A Novel Tangible Device for Teaching Musical Scales & Triads
- Konstantin Klamka (Technische Universität Dresden, Dresden, Germany)
- Jannik Wojnar (Technische Universität Dresden, Dresden, Germany)

INT002: ClassBeacons: Enhancing Reflection-in-Action of Teachers through Spatially Distributed Ambient Information
- Pengcheng An (Eindhoven University of Technology, Eindhoven, Netherlands)
- Saskia Bakker (Eindhoven University of Technology, Eindhoven, Netherlands)
- Sara Ordanovski (Utrecht University, Utrecht, Netherlands)
- Ruurd Taconis (Eindhoven University of Technology, Eindhoven, Netherlands)
- Chris L. E. Paffen (Utrecht University, Utrecht, Netherlands)
- Berry Eggen (Eindhoven University of Technology, Eindhoven, Netherlands)

INT003: Physical Programming for Blind and Low Vision Children at Scale
- Nicolas Villar (Microsoft Research, Redmond, WA, USA)
- Cecily Morrison (Microsoft Research, Cambridge, United Kingdom)
- Daniel Cletheroe (Microsoft Research, Cambridge, United Kingdom)
- Tim Regan (Microsoft Research, Cambridge, United Kingdom)
- Anja Thiene (Microsoft Research, Cambridge, United Kingdom)
- Greg Saul (Microsoft Research, Cambridge, United Kingdom)

INT004: StringTouch: A Scalable Low-Cost Concept for Deformable Interfaces
- Beat Rossmy (LMU University of Munich, Munich, Germany)
- Alexander Witthoff (LMU University of Munich, Munich, Germany)

INT005: Tangible Interactions with Acoustic Levitation
- Asier Marzo (Universidad Publica de Navarra, Pamplona, Spain)
- Steven Kockaya (University of Bristol, Bristol, United Kingdom)
- Euan Freeman (University of Glasgow, Glasgow, United Kingdom)
- Julie Williamson (University of Glasgow, Glasgow, United Kingdom)

INT006: Three-in-one: Levitation, Parametric Audio, and Mid-Air Haptic Feedback
- Gözél Shakeri (University of Glasgow, Glasgow, United Kingdom)
- Euan Freeman (University of Glasgow, Glasgow, United Kingdom)
- William Frier (Ultrahaptics Ltd., Bristol, United Kingdom)
- Michele Iodice (UltrahapticsUltrahaptics Ltd., Bristol, United Kingdom)
- Benjamin Long (Ultrahaptics Ltd., Bristol, United Kingdom)
- Orestis Georgiou (UltrahapticsUltrahaptics Ltd., Bristol, United Kingdom)
- Carl Andersson (Chalmers University of Technology, Gothenburg, Sweden)

INT007: Demonstration of Refinity: An Interactive Holographic Signage for New Retail Shopping Experience
- Jin Ryong Kim (Alibaba DAMO Academy, Sunnyvale, CA, USA)
- Stephanie Chan (Alibaba DAMO Academy, Sunnyvale, CA, USA)
- Xiangchao Huang (Alibaba DAMO Academy, Sunnyvale, CA, USA)
- Kenneth Ng (Alibaba DAMO Academy, Sunnyvale, CA, USA)
- Limin Paul Fu (Alibaba DAMO Academy, Sunnyvale, CA, USA)
- Chen Zhao (Alibaba DAMO Academy, Sunnyvale, CA, USA)

INT008: Multimodal Representation of Complex Spatial Data
- Hrishikesh Rao (University of Michigan, Ann Arbor, MI, USA)
- Sile O’Modhrain (University of Michigan, Ann Arbor, MI, USA)
INT009: Brick: A Synchronous Multiplayer Augmented Reality Game for Mobile Phones
- Po Bhattacharyya (Carnegie Mellon University, Pittsburgh, PA, USA)
- Yein Jo (Carnegie Mellon University, Pittsburgh, PA, USA)
- Ketki Jadhav (Carnegie Mellon University, Pittsburgh, PA, USA)
- Radha Nath (Carnegie Mellon University, Pittsburgh, PA, USA)
- Jessica Hammer (Carnegie Mellon University, Pittsburgh, PA, USA)

INT010: Towards Evidence-informed Design Principles for Adaptive Reading Games
- Manolis Mavrikis (University College London, London, United Kingdom)
- Asimina Vasalou (University College London, London, United Kingdom)
- Laura Benton (University College London, London, United Kingdom)
- Chrysanthi Raffoulou (National Technical University of Athens, Athens, Greece)
- Antonios Symvonis (National Technical University of Athens, Athens, Greece)
- Kostas Karpozis (National Technical University of Athens, Athens, Greece)
- Drew Wilkins (Fish in a Bottle, Leamington Spa, United Kingdom)

INT011: ‘In the Same Boat’: A Game of Mirroring Emotions for Enhancing Social Play
- Raquel Breen John (University of Saskatchewan, Saskatoon, Canada)
- Elizabeth Reid (University of Saskatchewan, Saskatoon, Canada)
- Ansgar E. Depping (University of Saskatchewan, Saskatoon, Canada)
- Regan Mandryk (University of Saskatchewan, Saskatoon, Canada)
- James Collin Fey (University of California, Santa Cruz, Santa Cruz, CA, USA)
- Katherine Isbister (University of California, Santa Cruz, Santa Cruz, CA, USA)

INT012: Slackliner 2.0: Real-time Training Assistance through Life-size Feedback
- Christian Hansen (Otto-von-Guericke Universität, Magdeburg, Germany)
- Benjamin Hatscher (Otto-von-Guericke Universität, Magdeburg, Germany)
- Joseph Tu (University of Waterloo, Waterloo, Canada)
- Lisa F. Cormier (University of Waterloo, Waterloo, Canada)
- Katarina Bulovic (Massachusetts Institute of Technology, Cambridge, MA, USA)
- Kazuya Kawahara (University of Tokyo, Bunkyo-ku, Japan)

INT013: Playing Beyond the Front Room: Designing for Social Play in Ola De La Vida
- Lynn H. C. Love (Abertay University, Dundee, United Kingdom)
- Mona Bozdog (Abertay University, Dundee, United Kingdom)

INT014: Crushed It!: Interactive Floor Demonstration
- Rina R. Weihe (University of Waterloo, Waterloo, Canada)
- Kai Bornemann (Otto-von-Guericke Universität, Magdeburg, Germany)
- Benjamin Hatscher (Otto-von-Guericke Universität, Magdeburg, Germany)
- Joseph Tu (University of Waterloo, Waterloo, Canada)
- Lisa F. Cormier (University of Waterloo, Waterloo, Canada)
- Edward Lank (University of Waterloo, Waterloo, Canada)
- Lennart E. Nacke (University of Waterloo, Waterloo, Canada)

INT015: Foldtronics Demo: Creating 3D Objects with Integrated Electronics Using Foldable Honeycomb Structures
- Junichi Yamaoka (Massachusetts Institute of Technology & University of Tokyo, Cambridge, MA, USA)
- Mustafa Doga Dogan (Massachusetts Institute of Technology, Cambridge, MA, USA)
- Katarina Bulovic (Massachusetts Institute of Technology, Cambridge, MA, USA)
- Kazuya Saito (University of Tokyo, Bunkyo-ku, Japan)
- Yoshihiro Kawahara (University of Tokyo, Bunkyo-ku, Japan)
- Yasuaki Kakehi (University of Tokyo, Bunkyo-ku, Japan)
- Stefanie Mueller (Massachusetts Institute of Technology, Cambridge, MA, USA)

INT016: Demonstrating Kyub: A 3D Editor for Modeling Sturdy Laser-Cut Objects
- Patrick Baudisch (Hasso Plattner Institute, Potsdam, Germany)
- Arthur Silber (Hasso Plattner Institute, Potsdam, Germany)
- Yannis Komnons (Hasso Plattner Institute, Potsdam, Germany)
- Milan Gruner (Hasso Plattner Institute, Potsdam, Germany)
- Ludwig Wall (Hasso Plattner Institute, Potsdam, Germany)
- Kevin Reuss (Hasso Plattner Institute, Potsdam, Germany)
- Lukas Heilmann (Hasso Plattner Institute, Potsdam, Germany)
- Robert Kovacs (Hasso Plattner Institute, Potsdam, Germany)
- Daniel Rechitz (Hasso Plattner Institute, Potsdam, Germany)
- Thijs Roumen (Hasso Plattner Institute, Potsdam, Germany)

INT017: Digital Fabrication of Soft Actuated Objects by Machine Knitting
- Lea Albaugh (Carnegie Mellon University, Pittsburgh, PA, USA)
- Scott Hudson (Carnegie Mellon University, Pittsburgh, PA, USA)
- Lining Yao (Carnegie Mellon University, Pittsburgh, PA, USA)

INT018: Painting with CATS: Camera-Aided Texture Synthesis
- Ticha Sethapakdi (Carnegie Mellon University, Pittsburgh, PA, USA)
- James McCann (Carnegie Mellon University, Pittsburgh, PA, USA)

INT019: Flowboard: A Visual Flow-Based Programming Environment for Embedding Coding
- Anke Brocker (RWTH Aachen University, Aachen, Germany)
- Simon Voelker (RWTH Aachen University, Aachen, Germany)
- Tony Zelun Zhang (RWTH Aachen University, Aachen, Germany)
- Mathis Muller (RWTH Aachen University, Aachen, Germany)
- Jan Borchers (RWTH Aachen University, Aachen, Germany)
INT022: Demonstration of Springlets: Expressive, Flexible and Silent On-Skin Tactile Interfaces
- Nur Al-huda Hamdan (RWTH Aachen University, Aachen, Germany)
- Adrian Wagner (RWTH Aachen University, Aachen, Germany)
- Simon Voelker (RWTH Aachen University, Aachen, Germany)
- Jan Borchers (RWTH Aachen University, Aachen, Germany)
- Jörgen Stenmeier (Saarland University, Saarland Informatics Campus, Saarbrücken, Germany)

INT021: Dynamic Depth-of-Field Projection for 3D Projection Mapping
- Lihui Wang (University of Tokyo, Tokyo, Japan)
- Hongjin Xu (University of Tokyo, Tokyo, Japan)
- Yunpu Hu (University of Tokyo, Tokyo, Japan)
- Satoshi Tabata (University of Tokyo, Tokyo, Japan)
- Masatoshi Ishikawa (University of Tokyo, Bunkyo-ku, Japan)

INT020: Live Programming By Example
- Ryosuke Takada (University of Tsukuba, Tsukuba, Japan)
- Junichiro Kadomoto (The University of Tokyo, Hongo, Japan)
- Buntarou Shizuki (University of Tsukuba, Tsukuba, Japan)

INT025: Bear & Co: Simulating Value Conflicts in IoT Development
- Annelie Berner (Copenhagen Institute of Interaction Design, Copenhagen, Denmark)
- Monica Seyfried (Copenhagen Institute of Interaction Design, Copenhagen, Denmark)
- Calle Nordenskål (Copenhagen Institute of Interaction Design, Copenhagen, Denmark)
- Peter Kuhberg (Copenhagen Institute of Interaction Design, Copenhagen, Denmark)
- Irina Shklovski (IT University of Copenhagen, Copenhagen, Denmark)

INT030: Come Hither to Me: Performance of a Seductive Robot
- Sahar Sajadieh (University of California, Santa Barbara, Santa Barbara, CA, USA)
- Hannah Wolfe (University of California, Santa Barbara, Santa Barbara, CA, USA)

INT031: Eyes: Iris Sonification and Interactive Biometric Art
- Yoon Chung Han (San Jose State University, San Jose, CA, USA)
- Pratul Surve (California State University, Fullerton, Fullerton, CA, USA)

INT024: LUNE: Representing Lunar Day by Displayed Lighting Object
- Sung ho Lee (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)
- Seong beom Kim (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)
- Byoung hern Kim (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)
- Hui sung Lee (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)

INT023: A Sensing Technique for Data Glove Using Conductive Fiber
- Scottie Chih-Chieh Huang (National Tsing Hua University, Hsinchu, Taiwan ROC)
- Chung-Yun Hsiao (National Chiao Tung University, Hsinchu, Taiwan ROC)

INT026: An Exploration of Responsive and Emotive Wearables through Research Prototyping
- Rain Ashford (Goldsmiths, University of London, London, United Kingdom)

INT027: Being-in-the-Gallery
- Rhoda Ellis (Biome Collective, Dundee, United Kingdom)

INT028: Hypercept: Speculating the Visual World Intervened by Digital Media
- Hua sung Lee (Harvard Graduate School of Design, Cambridge, MA, USA)

INT029: Twenty Years of The Mixed Reality Laboratory
- Paul Tennent (University of Nottingham, Nottingham, United Kingdom)
- Steve Benford (University of Nottingham, Nottingham, United Kingdom)

INT032: Hybrid Dandelion: Visual Aesthetics of Performance Through Bionic Mechanism with Data from Facial Biometric Recognition
- Damien Brun (Université TÉLUQ, Montréal, Canada)
- Bernt Isak Wærstad (Norwegian University of Science and Technology, Trondheim, Norway)

INT033: Death Ground
- Christos Michalakos (Abertay University, Dundee, United Kingdom)

INT034: Keycube is a Kind of Keyboard (k^3(3))
- Jotaro Shigeyama (University of Tokyo, Bunkyo-ku, Japan)
- Shigeo Yoshida (University of Tokyo, Bunkyo-ku, Japan)
- Takuji Narumi (University of Tokyo, Bunkyo-ku, Japan)
- Michitaka Hirose (University of Tokyo, Bunkyo-ku, Japan)

INT035: Demonstration of Transcalibur: A VR Controller that Presents Various Shapes of Handheld Objects
- Julius von Willich (TU Darmstadt, Darmstadt, Germany)
- Sebastian Günther (TU Darmstadt, Darmstadt, Germany)
- Florian Müller (TU Darmstadt, Darmstadt, Germany)
INT037: Demonstrating VRBox: A Virtual Reality Augmented Sandbox
- Dmitry Alexandrovsky (University of Bremen, Bremen, Germany)
- Tanja Döring (University of Bremen, Bremen, Germany)
- Susanne Putze (University of Bremen, Bremen, Germany)
- Thomas Fröhlich (University of Bremen, Bremen, Germany)
- Timo Stabbert (University of Bremen, Bremen, Germany)
- Rainer Malaka (University of Bremen, Bremen, Germany)

INT039: A Virtual Reality Experience for Learning Languages
- Sarah Garcia (University of South Florida, Tampa, Florida, USA)
- Ronald Kauer (University of South Florida, Tampa, Florida, USA)
- Denis Laesker (University of South Florida, Tampa, Florida, USA)
- Jason Nguyen (University of South Florida, Tampa, Florida, USA)
- Marvin Andujar (University of South Florida, Tampa, Florida, USA)

INT040: Experiencing a Mirrored World with Geotagged Social Media in Geollery
- Ruofei Du (University of Maryland, College Park, College Park, Maryland, USA)
- David Li (University of Maryland, College Park, College Park, Maryland, USA)
- Amitabh Varshney (University of Maryland, College Park, College Park, Maryland, USA)

INT041: Egocentric Smaller-person Experience through a Change in Visual Perspective
- Jun Nishida (University of Chicago, Chicago, Illinois, USA)
- Soichiro Matsuda (University of Tsukuba, Tsukuba, Japan)
- Mika Oki (University of Tsukuba, Tsukuba city, Japan)
- Hikaru Takatori (University of Tsukuba, Tsukuba, Japan)
- Kosuke Sato (University of Tsukuba, Ibaraki, Japan)
- Kenji Suzuki (University of Tsukuba, Tsukuba, Japan)

INT042: Demonstration of SeeingVR: A Set of Tools to Make Virtual Reality More Accessible to People with Low Vision
- Yuhang Zhao (Microsoft Research & Cornell Tech, New York, New York, USA)
- Edward Cutrell (Microsoft Research, Redmond, Washington, USA)
- Christian Holz (Microsoft Research, Redmond, Washington, USA)
- Meredith Ringel Morris (Microsoft Research, Redmond, Washington, USA)
- Eyal Ofek (Microsoft Research, Redmond, Washington, USA)
- Andrew D. Wilson (Microsoft Research, Redmond, Washington, USA)

INT043: Immersing VR Exergames for Health and Wellbeing
- Kiran Ijaz (The University of Sydney, Sydney, Australia)
- Yifan Wang (The University of Sydney, Sydney, Australia)
- Naseem Ahmadpour (The University of Sydney, Sydney, Australia)
- Rafael A. Calvo (The University of Sydney, Sydney, Australia)
- G. Michael Poor (Baylor University, Waco, TX, USA)
- Timothy Arterbury (Baylor University, Waco, TX, USA)
- Hanif Baharin (Universiti Kebangsaan Malaysia, Bangi, Malaysia)
- Hafiz Mastro (AHM Strategies, Rawang, Malaysia)
- Rohit Ashok Khot (University of Bremen, Bremen, Germany)
- Mehmet Aydin Baytas (Qualisys AB, Gothenburg, Sweden)
- Olivia Wichtowski (RMIT University, Melbourne, Australia)
- Joseph La Delfa (RMIT University, Melbourne, Australia)
- Florian Floyd Mueller (RMIT University, Melbourne, Australia)
- Robert Jarvis (RMIT University, Melbourne, Australia)
- Rohit Ashok Khot (RMIT University, Melbourne, Australia)

INT044: Multisensory Virtual Environment for Fire Evacuation Training
- Tommy Nilsson (University of Nottingham, Nottingham, United Kingdom)
- Tessa Roper (University of Nottingham, Nottingham, United Kingdom)
- Emily Shaw (University of Nottingham, Nottingham, United Kingdom)
- Glyn Lawson (University of Nottingham, Nottingham, United Kingdom)
- Sue V. G. Cobb (University of Nottingham, Nottingham, United Kingdom)
- Hsieh Meng-Ko (University of Nottingham, Nottingham, United Kingdom)
- Daniel Miller (University of Nottingham, Nottingham, United Kingdom)
- James Khan (University of Nottingham, Nottingham, United Kingdom)

INT045: 3D Positional Movement Interaction with User-Defined, Virtual Interface for Music Software: MoveMIDI
- G. Michael Poor (Baylor University, Waco, TX, USA)
- Timothy Arterbury (Baylor University, Waco, TX, USA)

INT046: Are Drones Meditative?
- Joseph La Delfa (RMIT University, Melbourne, Australia)
- Mehmet Aydin Baytas (Qualisys AB, Gothenburg, Sweden)
- Olivia Wichtowski (RMIT University, Melbourne, Australia)
- Rohit Ashok Khot (RMIT University, Melbourne, Australia)
- Florian Floyd Mueller (RMIT University, Melbourne, Australia)

INT047: iScream!: Towards the Design of Playful Gustosonic Experiences with Ice Cream
- Yan Wang (RMIT University, Melbourne, Australia)
- Zhuying Li (RMIT University, Melbourne, Australia)
- Robert Jarvis (RMIT University, Melbourne, Australia)
- Rohit Ashok Khot (RMIT University, Melbourne, Australia)
- Florian 'Floyd' Mueller (RMIT University, Melbourne, Australia)

INT048: Augmenting Circle Dance with Physical Computing
- Hanif Baharin (Universiti Kebangsaan Malaysia, Bangi, Malaysia)
- Hafiz Mastro (AHM Strategies, Rawang, Malaysia)

INT049: Movie+: Towards Exploring Social Effects of Emotional Fingerprints for Video Clips and Movies
- Anton Fedosov (Università della Svizzera italiana, Lugano, Switzerland)
- Bianca Stancu (Università della Svizzera italiana, Lugano, Switzerland)
- Elena Di Lascio (Università della Svizzera italiana, Lugano, Switzerland)
<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
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<tbody>
<tr>
<td><strong>INT050: PhotoFlow in Action: Picture-Mediated Reminiscence Supporting Family Socio-Connectivity</strong></td>
<td>Thursday - 10:20 - 11:00</td>
<td>Room: Etive</td>
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<tr>
<td>Davide Eynard (Università della Svizzera italiana, Lugano, Switzerland)</td>
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<tr>
<td>Marc Langheinrich (Università della Svizzera italiana, Lugano, Switzerland)</td>
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<td>Benett Axtell (University of Toronto, Toronto, Canada)</td>
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<tr>
<td>Cosmin Munteanu (University of Toronto &amp; University of Toronto Mississauga, Mississauga, Canada)</td>
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**Thursday - 11:00 - 12:20**

<table>
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<tr>
<th>Course: Communicating your Research to the Public and the Press</th>
<th>Thursday - 11:00 - 12:20</th>
<th>Room: Island B CROWNE</th>
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<tbody>
<tr>
<td>Helen Pilcher</td>
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<tr>
<th>Course: Eye Tracking Methodology in Screen-based Usability Testing</th>
<th>Thursday - 11:00 - 12:20</th>
<th>Room: Argyll 3 CROWNE</th>
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<tbody>
<tr>
<td>Lin Wang (U.S. Census Bureau, Washington, DC, USA)</td>
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<tr>
<th>Course: User Experience (UX) Research in Games</th>
<th>Thursday - 11:00 - 12:20</th>
<th>Room: Castle 1 CROWNE</th>
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<tbody>
<tr>
<td>Lennart E. Nacke (University of Waterloo, Waterloo, Canada)</td>
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<td>Pejman Mirza-Babaei (University of Ontario Institute of Technology, Oshawa, Canada)</td>
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<td>Anders Drachen (University of York, York, United Kingdom)</td>
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<tr>
<th>Course: Conversation Design: Principles, Strategies, and Practical Application</th>
<th>Thursday - 11:00 - 12:20</th>
<th>Room: Castle 2 CROWNE</th>
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<tbody>
<tr>
<td>Margaret Urban (Google, LLC, Mountain View, CA, USA)</td>
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<td>Stephen Mailey (Google UK, Ltd., London, United Kingdom)</td>
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<tr>
<th>Course: Prototyping Transparent and Flexible Electrochromic Displays</th>
<th>Thursday - 11:00 - 12:20</th>
<th>Room: Castle 3 CROWNE</th>
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<tbody>
<tr>
<td>Markus Löchtefeld (Aalborg University, Aalborg, Denmark)</td>
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<td>Walter Jensen (Aalborg University, Aalborg, Denmark)</td>
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<td>Heiko Müller (University of Lapland, Rovaniemi, Finland)</td>
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<td>Ashley Colley (University of Lapland, Rovaniemi, Finland)</td>
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<th>Course: Conversation Design: Principles, Strategies, and Practical Application</th>
<th>Thursday - 11:00 - 12:20</th>
<th>Room: Argyll 1 CROWNE</th>
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<tr>
<td>Charles B. Kreitzberg (Princeton University, Princeton, NJ, USA)</td>
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<td>Elizabeth Rosenzweig (Bentley University, Waltham, MA, USA)</td>
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<td>Ben Shneiderman (University of Maryland, College Park, College Park, MD, USA)</td>
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<td>Elizabeth F. Churchill (Google, San Francisco, CA, USA)</td>
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<td>Elizabeth Gerber (Northwestern University, Evanston, IL, USA)</td>
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**Thursday - 11:00 - 12:20**

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<tr>
<th>Paper session: Decision Making</th>
<th>Thursday - 11:00 - 12:20</th>
<th>Room: Carron 2</th>
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<tr>
<td>Chair: Poorna Talkad Sukumar</td>
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**Thursday - 11:00 - 12:20**

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<tr>
<th>Gabber: Supporting Voice in Participatory Qualitative Practices</th>
<th>Thursday - 11:00 - 12:20</th>
<th>Room: Argyll 1 CROWNE</th>
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<tbody>
<tr>
<td>Jay Rainey (Newcastle University, Newcastle upon Tyne, United Kingdom)</td>
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<td>Kyle Montague (Newcastle University, Newcastle upon Tyne, United Kingdom)</td>
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<td>Pamela Briggs (Northumbria University, Newcastle upon Tyne, United Kingdom)</td>
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<td>Robert Anderson (Newcastle University, Newcastle upon Tyne, United Kingdom)</td>
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<td>Thomas Nappney (Newcastle University, Newcastle upon Tyne, United Kingdom)</td>
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<td>Patrick Olivier (Monash University, Melbourne, Australia)</td>
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<tr>
<th>Socio-technical Dynamics: Cooperation of Emergent and Established Organisations in Crises and Disasters Honourable Mention</th>
<th>Thursday - 11:00 - 12:20</th>
<th>Room: Carron 2</th>
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<tr>
<td>Daniel Auferbauer (AIT Austrian Institute of Technology, Vienna, Austria)</td>
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<td>Hilda Telloğlu (TU Wien, Vienna, Austria)</td>
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**Thursday - 11:00 - 12:20**

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<tr>
<th>Should I Agree? Delegating Consent Decisions Beyond the Individual</th>
<th>Thursday - 11:00 - 12:20</th>
<th>Room: Carron 2</th>
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<tbody>
<tr>
<td>Bettina Nissen (University of Edinburgh, Edinburgh, United Kingdom)</td>
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<td>Victoria Neumann (Lancaster University, Lancaster, United Kingdom)</td>
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<td>Mateusz Mikusz (Lancaster University, Lancaster, United Kingdom)</td>
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<td>Rory Gianni (The University of Edinburgh, Edinburgh, United Kingdom)</td>
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<td>Sarah Clinch (University of Manchester, Manchester, United Kingdom)</td>
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<td>Chris Speed (University of Edinburgh, Edinburgh, United Kingdom)</td>
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<td>Nigel Davies (Lancaster University, Lancaster, United Kingdom)</td>
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<tr>
<th>When Do People Trust Their Social Groups?</th>
<th>Thursday - 11:00 - 12:20</th>
<th>Room: Carron 2</th>
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<tbody>
<tr>
<td>Xiao Ma (Jacobs Institute, Cornell Tech &amp; Facebook, New York, NY, USA)</td>
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<td>Justin Cheng (Facebook, Menlo Park, CA, USA)</td>
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<td>Shankar Iyer (Facebook, Menlo Park, CA, USA)</td>
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<td>Mor Naaman (Jacobs Institute, Cornell Tech, New York, NY, USA)</td>
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</tbody>
</table>
Paper session: Online Support Systems  
Thursday - 11:00 - 12:20  
Room: Lomond  
Chair: Preethi Srinivas

**The Channel Matters: Self-disclosure, Reciprocity and Social Support in Online Cancer Support Groups**

**Honourable Mention**
- Diyi Yang (Carnegie Mellon University, Pittsburgh, PA, USA)
- Zheng Yao (Carnegie Mellon University, Pittsburgh, PA, USA)
- Joseph Seering (Carnegie Mellon University, Pittsburgh, PA, USA)
- Robert Kraut (Carnegie Mellon University, Pittsburgh, PA, USA)

**Measuring and Understanding Photo Sharing Experiences in Social Virtual Reality**
- Jie Li (Centrum Wiskunde & Informatica, Amsterdam, Netherlands)
- Yiping Kong (Centrum Wiskunde & Informatica (CWI), Amsterdam, Netherlands)
- Thomas Röggla (Centrum Wiskunde & Informatica (CWI), Amsterdam, Netherlands)
- Francesca De Simone (Centrum Wiskunde & Informatica (CWI), Amsterdam, Netherlands)
- Swamy Ananthanarayan (University of Oldenburg, Oldenburg, Germany)
- Huib de Ridder (Delft University of Technology, Delft, Netherlands)
- Abdallah El Ali (Centrum Wiskunde & Informatica (CWI), Amsterdam, Netherlands)
- Pablo Cesar (Centrum Wiskunde & Informatica (CWI) and Delft University of Technology, Amsterdam, Netherlands)

**Managing Multimorbidity: Identifying Design Requirements for a Digital Self-Management Tool to Support Older Adults with Multiple Chronic Conditions**

**Honourable Mention**
- Julie Doyle (Dundalk Institute of Technology, Dundalk, Ireland)
- Emma Murphy (Trinity College Dublin, Dublin, Ireland)
- Janneke Kuiper (Vrije Universiteit Brussel, Brussels, Belgium)
- Suzanne Smith (Dundalk Institute of Technology, Dundalk, Ireland)
- Caoimhe Hannigan (Trinity College Dublin, Dublin, Ireland)
- An Jacobs (Vrije Universiteit Brussel, Brussels, Belgium)
- John Dinsmore (Trinity College Dublin, Dublin, Ireland)

**Face and Ecological Validity in Simulations: Lessons from Search-and-Rescue HRI**
- Lorin Dole (Cornell Tech, New York, NY, USA)
- Wendy Ju (Cornell Tech, New York, NY, USA)

Paper session: Collaborative Design  
Thursday - 11:00 - 12:20  
Room: Boisdale 2  
Chair: Arne Berger

**Care and Design: An Ethnography of Mutual Recognition in the Context of Advanced Dementia**
- Sarah Foley (University College Cork, Cork, Ireland)
- Nadia Pantidi (University College Cork, Cork, Ireland)
- John McCarthy (University College Cork, Cork, Ireland)

**Position Exchange Workshops: A Method to Design for Each Other in Families**
- Diego Muñoz (Queensland University of Technology, Brisbane, Australia)
- Bernd Ploderer (Queensland University of Technology, Brisbane, Australia)
- Margot Brereton (Queensland University of Technology, Brisbane, Australia)

**Co-Design Beyond Words: 'Moments of Interaction' with Minimally-Verbal Children on the Autism Spectrum**
- Cara Wilson (Queensland University of Technology, Brisbane, Australia)
- Margot Brereton (Queensland University of Technology, Brisbane, Australia)
- Larriane Sibbon (Queensland University of Technology, Brisbane, Australia)

**Developing Accessible Services: Understanding Current Knowledge and Areas for Future Support**

**Honourable Mention**
- Michael Crabb (University of Dundee, Dundee, United Kingdom)
- Michael Heron (Robert Gordon University, Aberdeen, United Kingdom)
- Rhianne Jones (BBC Research and Development, Salford, Manchester, United Kingdom)
- Mike Armstrong (BBC Research and Development, Salford, Manchester, United Kingdom)
- Hayley Reid (FinancialForce, Harrogate, United Kingdom)
- Amy Wilson (Robert Gordon University, Aberdeen, United Kingdom)

Paper session: Interaction in Public Contexts  
Thursday - 11:00 - 12:20  
Room: Hall 2  
Chair: Andrés Lucero

**PlaneVR: Social Acceptability of Virtual Reality for Aeroplane Passengers**
- Julie R. Williamson (University of Glasgow, Glasgow, United Kingdom)
- Mark McGill (University of Glasgow, Glasgow, United Kingdom)
- Khari Outram (University of Glasgow, Glasgow, United Kingdom)

**Understanding the Shared Experience of Runners and Spectators in Long-Distance Running Events**
- Tao Bi (University College London, London, United Kingdom)
- Nadia Bianchi-Berthouze (University College London, London, United Kingdom)
- Aneesha Singh (University College London, London, United Kingdom)
- Enrico Costanza (University College London, London, United Kingdom)

**Effects of Locomotion and Visual Overview on Spatial Memory when Interacting with Wall Displays**
- Yvonne Jansen (CNRS – Sorbonne Université, Paris, France)
- Jonas Schjerlund (University of Copenhagen, Copenhagen, Denmark)
- Kasper Hornbaek (University of Copenhagen, Copenhagen, Denmark)
Peripheral Notifications in Large Displays: Effects of Feature Combination and Task Interference
- Aristides Mairena (University of Saskatchewan, Saskatoon, Canada)
- Cari Gutwin (University of Saskatchewan, Saskatoon, Canada)
- Andy Cockburn (University of Canterbury, Christchurch, New Zealand)

Paper session: Computing and Data Education
Thursday - 11:00 - 12:20 Room: Alsh 2
Chair: Eliane Wiese

Can Children Understand Machine Learning Concepts? The Effect of Uncovering Black Boxes
Honourable Mention
- Tom Hitron (Interdisciplinary Center, Herzliya, Israel)
- Yoav Orlev (Interdisciplinary Center, Herzliya, Israel)
- Iddo Wald (Interdisciplinary Center, Herzliya, Israel)
- Ariel Shamir (Interdisciplinary Center, Herzliya, Israel)
- Hadas Erel (Interdisciplinary Center, Herzliya, Israel)
- Oren Zuckerman (Interdisciplinary Center, Herzliya, Israel)

Pyrus: Designing A Collaborative Programming Game to Promote Problem Solving Behaviors
- Joshua Shi (Northwestern University, Evanston, IL, USA)
- Armaan Shah (Northwestern University, Evanston, IL, USA)
- Garrett Hedman (Northwestern University, Chicago, IL, USA)
- Eleanor O'Rourke (Northwestern University, Evanston, IL, USA)

HOPE for Computing Education: Towards the Infrastructuring of Support for University-School Partnerships
- Megan Venn-Wypercher (Newcastle University, Newcastle upon Tyne, United Kingdom)
- Ahmed Kharrufa (Newcastle University, Newcastle upon Tyne, United Kingdom)

Practitioners Teaching Data Science in Industry and Academia: Expectations, Workflows, and Challenges Honourable Mention
- Sean Kross (University of California, San Diego, La Jolla, CA, USA)
- Philip J. Guo (University of California, San Diego, La Jolla, CA, USA)

Moments of Change: Analyzing Peer-Based Cognitive Support in Online Mental Health Forums
- Yada Pruksachat (New York University, New York City, NY, USA)
- Sachin R. Pendse (Microsoft Research India, Bangalore, India)
- Amit Sharma (Microsoft Research India, Bangalore, India)

#HandsOffMyADA: A Twitter Response to the ADA Education and Reform Act
- Brooke E. Auxier (University of Maryland, College Park, College Park, MD, USA)
- Cody L. Buntain (University of Maryland, College Park, College Park, MD, USA)
- Paul Jaeger (University of Maryland, College Park, College Park, MD, USA)
- Jennifer Golbeck (University of Maryland, College Park, College Park, MD, USA)
- Hernisa Kacorri (University of Maryland, College Park, College Park, MD, USA)

Communicating Hurricanes: Multi-Method Examination of Risk Imagery Diffusion
- Melissa Bica (University of Colorado Boulder, Boulder, CO, USA)
- Julie L. Demuth (National Center for Atmospheric Research, Boulder, CO, USA)
- James E. Dykes (University of Colorado Boulder, Boulder, CO, USA)
- Leysia Palen (University of Colorado Boulder, Boulder, CO, USA)

Human-Computer Insurrection: Notes on an Anarchist HCI
- Os Keyes (University of Washington, Seattle, Washington, USA)
- Josephine Hoy (University of Washington, Seattle, WA, USA)
- Margaret Drouhard (University of Washington, Seattle, WA, USA)

Getting There: Barriers and Facilitators to Transportation Access in Underserved Communities
- Tawanna R. Dillahunt (University of Michigan, Ann Arbor, MI, USA)
- Tiffany Veinot (University of Michigan, Ann Arbor, Michigan, USA)

Infrastructural Inaccessibility: Tech Entrepreneurs in Occupied Palestine
- Pernille Bjørn (University of Washington, Seattle, WA, USA)
- Nina Boulsou Rodje (Roskilde University, Roskilde, Denmark)

Improving Fairness in Machine Learning Systems: What Do Industry Practitioners Need?
- Kenneth Holstein (Carnegie Mellon University, Pittsburgh, PA, USA)
- Jennifer Wortman Vaughan (Microsoft Research, New York, NY, USA)
- Hal Daumé (Microsoft Research & University of Maryland, New York City, NY, USA)
- Miro Dudik (Microsoft Research, New York, NY, USA)
- Hanna Wallach (Microsoft Research, New York City, NY, USA)
A is for Artificial Intelligence: The Impact of Artificial Intelligence Activities on Young Children's Perceptions of Robots
  - Randi Williams (Massachusetts Institute of Technology, Cambridge, MA, USA)
  - Hae Won Park (Massachusetts Institute of Technology, Cambridge, MA, USA)
  - Cynthia Breazeal (Massachusetts Institute of Technology, Cambridge, MA, USA)

Understanding the Effect of Accuracy on Trust in Machine Learning Models Honourable Mention
  - Ming Yin (Purdue University, West Lafayette, IN, USA)
  - Jennifer Wortman Vaughan (Microsoft Research, New York, NY, USA)
  - Hanna Wallach (Microsoft Research, New York City, NY, USA)

Some Prior(s) Experience Necessary: Templates for Getting Started With Bayesian Analysis
  - Chanda Phelan (University of Michigan, Ann Arbor, MI, USA)
  - Jessica Hullman (Northwestern University, Evanston, IL, USA)
  - Paul Resnick (University of Michigan, Ann Arbor, MI, USA)

Some Prior(s) Experience Necessary: Templates for Getting Started With Bayesian Analysis
  - Chanda Phelan (University of Michigan, Ann Arbor, MI, USA)
  - Jessica Hullman (Northwestern University, Evanston, IL, USA)
  - Paul Resnick (University of Michigan, Ann Arbor, MI, USA)

Paragraph-based Faded Text Facilitates Reading Comprehension
  - Jumpei Kobayashi (Dai Nippon Printing Co., Ltd. & Future University Hakodate, Shinjuku, Japan)
  - Toshio Kawashima (Future University Hakodate, Hakodate, Japan)

Sketching NLP: A Case Study of Exploring the Right Things To Design with Language Intelligence
  - Qian Yang (Carnegie Mellon University, Pittsburgh, PA, USA)
  - Justin Cranshaw (Microsoft Research, Redmond, WA, USA)
  - Saleema Amershi (Microsoft Research, Seattle, WA, USA)
  - Shamsi T. Iqbal (Microsoft Research, Redmond, WA, USA)
  - Jaime Teevan (Microsoft Research, Redmond, WA, USA)

Multi-Modal Approaches for Post-Editing Machine Translation
  - Rico Herbig (German Research Center for Artificial Intelligence (DFKI), Saarland Informatics Campus, Saarbrücken, Germany)
  - Santanu Pal (Saarland University, Saarbrücken, Germany)
  - Josef van Genabith (Saarland University, Saarbrücken, Germany)
  - Antonio Krüger (German Research Center for Artificial Intelligence (DFKI), Saarland Informatics Campus, Saarbrücken, Germany)

Cultivating Care through Ambiguity: Lessons from a Service Learning Course
  - Samar Sabie (Cornell University, New York, NY, USA)
  - Tapan Parikh (Cornell University, New York, NY, USA)

Modeling Mobile Interface Tappability Using Crowdsourcing and Deep Learning
  - Amanda Swearngin (University of Washington & Google Research, Seattle, WA, USA)
  - Yang Li (Google Research, Mountain View, CA, USA)

TORC: A Virtual Reality Controller for In-Hand High-Dexterity Finger Interaction
  - Jaeyeon Lee (Microsoft Research & Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea)
  - Mike Sinclair (Microsoft, Redmond, WA, USA)
  - Mar Gonzalez-Franco (Microsoft Research, Redmond, WA, USA)
  - Eyal Ofek (Microsoft Research, Redmond, WA, USA)
  - Christian Holz (Microsoft Research, Redmond, WA, USA)

The Performative Mirror Space
  - Rachel Jacobs (University of Nottingham, Nottingham, United Kingdom)
  - Holger Schnädelbach (University of Nottingham, Nottingham, United Kingdom)
  - Nils Jäger (University of Loughborough, Loughborough, United Kingdom)
  - Silvia Leal (Independent Creative, Nottingham, United Kingdom)
  - Robin Shackford (Independent Creative, Nottingham, United Kingdom)
  - Steve Benford (University of Nottingham, Nottingham, United Kingdom)
  - Roma Patel (University of Nottingham, Nottingham, United Kingdom)

Design Guideline for Developing Safe Systems that Apply Electricity to the Human Body
  - Michinari Kono (The University of Tokyo, Bunkyo-ku, Japan)
  - Takumi Takahashi (The University of Tokyo, Bunkyo-ku, Japan)
  - Hiromi Nakamura (AIST, Tsukuba, Japan)
  - Takashi Miyaki (The University of Tokyo, Bunkyo-ku, Japan)
  - Jun Rekimoto (The University of Tokyo, Tokyo, Japan)

Privacy and Security Considerations For Digital Technology Use in Elementary Schools
  - Priya C. Kumar (University of Maryland, College Park, College Park, MD, USA)
  - Marshini Chetty (Princeton University, Princeton, NJ, USA)
  - Tamara L. Clegg (University of Maryland, College Park, College Park, MD, USA)
  - Jessica Vitak (University of Maryland, College Park, College Park, MD, USA)
PeerLens: Peer-inspired Interactive Learning Path Planning in Online Question Pool
- Meng Xia (The Hong Kong University of Science and Technology, Hong Kong, China)
- Mingfei Sun (The Hong Kong University of Science and Technology, Hong Kong, China)
- Huan Wei (The Hong Kong University of Science and Technology, Hong Kong, China)
- Qing Chen (The Hong Kong University of Science and Technology, Hong Kong, China)
- Yong Wang (The Hong Kong University of Science and Technology, Hong Kong, China)
- Lei Shi (Beihang University, Beijing, China)
- Huamin Qu (The Hong Kong University of Science and Technology, Hong Kong, China)
- Xiaojuan Ma (The Hong Kong University of Science and Technology, Hong Kong, China)

Competition: Student Research Competition
- Best Paper Award
- Voice User Interfaces in Schools: Co-designing for Inclusion with Visually-Impaired and Sighted Pupils
  - Fast and Precise Touch-Based Text Entry for Head-Mounted Augmented Reality with Variable Occlusion
    - John J. Dudley (University of Cambridge, Cambridge, United Kingdom)
    - Keith Vertanen (Michigan Technological University, Houghton, MI, USA)
    - Per Ola Kristensson (University of Cambridge, Cambridge, United Kingdom)
  - BotMap: Non-Visual Panning and Zooming with an Actuated Tabletop Tangible Interface
    - Julie Ducasse (University of Toulouse, Toulouse, France)
    - Marc J-M Macé (CNRS, Toulouse, France)
    - Bernard Oriola (CNRS, Toulouse, France)
  - Personal Mobile Messaging in Context: Chat Augmentations for Expressiveness and Awareness
    - Daniel Buschek (LMU Munich, Munich, Germany)
    - Mariam Hassib (Group for Media Informatics, Munich, Germany)
    - Florian Alt (Bundeswehr University Munich, Munich, Germany)

Special Interest Group (SIG): Digital Housekeeping, Gender and Domestic Work
- Thursday - 11:00 - 12:20  Room: Island CROWNE
- Chair: Aakar Gupta
- Anchor Audio Sampling: A Seamless Method for Exploring Children's Thoughts During Deployment
- Paper session: Augmenting Interactions
- Room: Hall 1
- Thursday - 11:00 - 12:20  Room: Hall 1
- Chair: Aakar Gupta
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  - John J. Dudley (University of Cambridge, Cambridge, United Kingdom)
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  - Mariam Hassib (Group for Media Informatics, Munich, Germany)
  - Florian Alt (Bundeswehr University Munich, Munich, Germany)

Break: Lunch Break (not provided)
- Thursday - 12:20 - 14:00  Room: N/A

Thursday - 14:00 - 15:20
- Competition: Student Research Competition
  - Room: Island B CROWNE
  - SRC01: Can Changes in Heart Rate Variability Represented in Sound be Identified by Non-Medical Experts?
    - Mariam Bahameish (Queen Mary University of London, London, United Kingdom)
  - SRC02: Muse: Scaffolding Metacognitive Reflection in Design-Based Research
    - Victoria Cabales (Northwestern University, Evanston, IL, USA)
  - SRC03: Guidelines for Combining Storytelling and Gamification: Which Features Would Teenagers Desire to Have a More Enjoyable Museum Experience?
    - Vanessa Cesário (University of Porto & Madeira Interactive Technologies Institute, Funchal, Portugal)
  - SRC04: Understanding the Occupational Therapists Method to Inform the Design of Technologies for People with Dementia
    - Emma Dixon (University of Maryland, College Park, College Park, MD, USA)
  - SRC05: Lake: A Digital Wizard of Oz Prototyping Tool
    - Andrew Finke (Northwestern University, Evanston, IL, USA)
  - SRC06: Automatic Speech Recognition Services: Deaf and Hard-of-Hearing Usability
    - Abraham Glasser (Rochester Institute of Technology, Rochester, NY, USA)
  - SRC07: Affordable Smart Wheelchair
    - Isabella Gomez Torres (University of California, San Diego, San Diego, CA, USA)
    - Gaurav Parmar (University of California, San Diego, San Diego, CA, USA)
    - Sammarth Aggarwal (University of California, San Diego, San Diego, CA, USA)
    - Nathaniel Mansur (University of California, San Diego, San Diego, CA, USA)
    - Alec Guthrie (University of California, San Diego, San Diego, CA, USA)
SRC08: Math Graphs for the Visually Impaired: Audio Presentation of Elements of Mathematical Graphs  
- Jeongyeon Kim (Sogang University, Seoul, Republic of Korea)  
- Yoonah Lee (Sogang University, Seoul, Republic of Korea)  
- Inho Seo (Sogang University, Seoul, Republic of Korea)

SRC09: I Am What You Eat: Effects of Social Influence on Meal Selection Online  
- Maria D. Molina (Pennsylvania State University, University Park, PA, USA)

SRC10: Designing Compassion Cultivating Interactions for New Mothers  
- Annu Sible Prabhakar (University of Cincinnati & Indiana University, Cincinnati, OH, USA)

SRC11: Family-Centered Exploration of the Benefits and Burdens of Digital Home Assistants  
- Olivia K. Richards (Pennsylvania State University, University Park, PA, USA)

SRC12: Privacy Therapy with Aretha: What If Your Firewall Could Talk?  
- William Seymour (University of Oxford, Oxford, United Kingdom)

SRC13: ParaXplore: Demystifying the Exploration of Large Design Spaces  
- Naghm Shireen (Simon Fraser University, Surrey, Canada)

SRC14: Sense of Familiarity: Improving Older Adults' Adaptation to Exergames  
- Hao Zhang (Nanyang Technological University, Singapore, Singapore)

SRC15: GPK: An Efficient Special Symbol Input Method for Keyboards  
- Xiyuan He (Zhejiang University, Hangzhou, China)  
- Zhuohao Zhang (Zhejiang University, Hangzhou, China)

Course: Eye Tracking Methodology in Screen-based Usability Testing  
- Lin Wang (U.S. Census Bureau, Washington, DC, USA)

Course: User Experience (UX) Research in Games  
- Lennart E. Nacke (University of Waterloo, Waterloo, Canada)  
- Pejman Mirza-Babaei (University of Ontario Institute of Technology, Oshawa, Canada)  
- Anders Drachen (University of York, York, United Kingdom)

Course: Conversation Design: Principles, Strategies, and Practical Application  
- Margaret Urban (Google, LLC, Mountain View, CA, USA)  
- Stephen Mailey (Google UK, Ltd., London, United Kingdom)

Course: Prototyping Transparent and Flexible Electrochromic Displays  
- Markus Löchtefeld (Aalborg University, Aalborg, Denmark)  
- Walther Jensen (Aalborg University, Aalborg, Denmark)  
- Heiko Müller (University of Lapland, Rovaniemi, Finland)  
- Ashley Colley (University of Lapland, Rovaniemi, Finland)

Course: Intro to the Human Body: Wearability and Human Factors of Wearable Systems  
- Lucy E. Dunne (University of Minnesota, St Paul, MN, USA)

Panel: The Future of Tangible User Interfaces  
- Abdallah El Ali

SmartEye: Assisting Instant Photo Taking via Integrating User Preference with Deep View Proposal  
- Shuai Ma (Institute of Software, Chinese Academy of Sciences & University of Chinese Academy of Sciences, Beijing, China)  
- Zijun Wei (Stony Brook University, Stony Brook, NY, USA)  
- Feng Tian (Institute of Software, Chinese Academy of Sciences & University of Chinese Academy of Sciences, Beijing, China)  
- Xiangmin Fan (Institute of Software, Chinese Academy of Sciences & University of Chinese Academy of Sciences, Beijing, China)  
- Jianming Zhang (Adobe Research, San Jose, CA, USA)  
- Xiaohui Shen (ByteDance AI Lab, Menlo Park, CA, USA)  
- Zhe Lin (Adobe Research, San Jose, CA, USA)  
- Jian Huang (Chinese Academy of Sciences & University of Chinese Academy of Sciences, Beijing, China)  
- Radomír Měch (Adobe Research, San Jose, CA, USA)
- Dimitris Samaras (Stony Brook University, Stony Brook, NY, USA)
- Hongan Wang (Institute of Software, Chinese Academy of Sciences & University of Chinese Academy of Sciences, Beijing, China)

**Improving Early Navigation in Time-Lapse Video with Spread-Frame Loading**
- Carl Gutwin (University of Saskatchewan, Saskatoon, Canada)
- Michael van der Kamp (University of Saskatchewan, Saskatoon, Canada)
- Md. Sami Uddin (University of Saskatchewan, Saskatoon, Canada)
- Kevin Stanley (University of Saskatchewan, Saskatoon, Canada)
- Ian Stavness (University of Saskatchewan, Saskatoon, Canada)
- Sally Vail (Agriculture and Agri-Food Canada, Saskatoon, Canada)

**RePlay: Contextually Presenting Learning Videos Across Software Applications Honourable Mention**
- C. Allie Fraser (University of California, San Diego & Adobe Research, La Jolla, CA, USA)
- Tricia J. Ngoon (University of California, San Diego, La Jolla, CA, USA)
- Mira Dontcheva (Adobe Research, Seattle, WA, USA)
- Scott Klemmer (University of California, San Diego, La Jolla, CA, USA)

**TrackCap: Enabling Smartphones for 3D Interaction on Mobile Head-Mounted Displays**
- Peter Mohr (Graz University of Technology & VRVis Zentrum für Virtual Reality und Visualisierung Forschungs-GmbH, Graz, Austria)
- Markus Tatzgern (Salzburg University of Applied Sciences, Puch, Austria)
- Tobias Langlotz (University of Otago, Dunedin, New Zealand)
- Andreas Lang (Graz University of Technology & Salzburg University of Applied Sciences, Puch, Austria)
- Dieter Schmalstieg (Graz University of Technology, Graz, Austria)
- Denis Kalkofen (Graz University of Technology, Graz, Austria)

**Like A Second Skin: Understanding How Epidermal Devices Affect Human Tactile Perception Honourable Mention**
- Aditya Shekhar Nittala (Saarland University, Saarbrücken, Germany)
- Klaus Kruttwig (INM-Leibniz Institute for New Materials, Saarbrücken, Germany)
- Jaeyeon Lee (Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea)
- Roland Bennewitz (INM-Leibniz Institute for New Materials, Saarbrücken, Germany)
- Eduard Arzt (INM-Leibniz Institute for New Materials, Saarbrücken, Germany)
- Jürgen Steimle (Saarland University, Saarland Informatics Campus, Saarbrücken, Germany)

**Optimising Encoding for Vibrotactile Skin Reading**
- Granit Lushnica (Know Center, Graz, Austria)
- Eduardo Vees (Graz University of Technology & Know Center, Graz, Austria)

**Frequency-Based Design of Smart Textiles**
- Jussi Mikkonen (Syddansk Universitet, Kolding, Denmark)
- Rikki Townend (Aalto University, Espoo, Finland)

**AdaCAD: Crafting Software For Smart Textiles Design Honourable Mention**
- Mikhaila Friske (University of Colorado Boulder, Boulder, CO, USA)
- Shanel Wu (University of Colorado Boulder, Boulder, CO, USA)
- Laura Devendorf (University of Colorado Boulder, Boulder, CO, USA)

**Seeing with New Eyes: Designing for In-the-Wild Museum Gifting**
- Jocelyn Spence (University of Nottingham, Nottingham, United Kingdom)
- Benjamin Bedwell (University of Nottingham, Nottingham, United Kingdom)
- Michelle Coleman (University of Nottingham, Nottingham, United Kingdom)
- Steve Benford (University of Nottingham, Nottingham, United Kingdom)
- Boriana N. Koleva (University of Nottingham, Nottingham, United Kingdom)
- Matt Adams (Blast Theory, Brighton, United Kingdom)
- Ju Row Farr (Blast Theory, Brighton, United Kingdom)
- Nick Tandavanitj (Blast Theory, Brighton, United Kingdom)
- Anders Sundnes Levlie (IT University of Copenhagen, Copenhagen, Denmark)

**Bookly: An Interactive Everyday Artifact Showing the Time of Physically Accumulated Reading Activity**
- Somi Ju (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)
- Kyung-Ryong Lee (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)
- Subin Kim (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)
- Young-Woo Park (Ulsan National Institute of Science and Technology, Ulsan, Republic of Korea)

**Design and Plural Heritages: Composing Critical Futures**
- Tom Schofield (Newcastle University, Newcastle upon Tyne, United Kingdom)
- Daniel Foster Smith (Newcastle University, Newcastle upon Tyne, United Kingdom)
- Gönül Bozoglu (Newcastle University, Newcastle upon Tyne, United Kingdom)
- Christopher Whitehead (Newcastle University, Newcastle upon Tyne, United Kingdom)

**Understanding Kinaesthetic Creativity in Dance**
- Stacy Hsueh (Inria & Université Paris-Saclay, Orsay, France)
- Sarah Fdili Alaoui (Inria & Université Paris-Saclay, Orsay, France)
- Wendy E. Mackay (Inria & Université Paris-Saclay, Paris, France)
Paper session: Critical Perspectives
Thursday - 14:00 - 15:20  Room: Boisdale 2
Chair: Netta Iivari

A Translational Science Model for HCI Best Paper Award
- Lucas Colusso (University of Washington, Seattle, WA, USA)
- Ridley Jones (University of Washington, Seattle, WA, USA)
- Sean A. Munson (University of Washington, Seattle, WA, USA)
- Gary Hsieh (University of Washington, Seattle, WA, USA)

Do We Care About Diversity in Human Computer Interaction: A Comprehensive Content Analysis on Diversity Dimensions in Research
- Julia Himmelsbach (AIT Austrian Institute of Technology GmbH, Vienna, Austria)
- Stephanie Schwarz (AIT Austrian Institute of Technology GmbH, Vienna, Austria)
- Cornelia Gerdenitsch (AIT Austrian Institute of Technology GmbH, Vienna, Austria)
- Beatrix Wais-Zechmann (AIT Austrian Institute of Technology GmbH, Vienna, Austria)
- Jan Bobeth (AIT Austrian Institute of Technology GmbH, Vienna, Austria)
- Manfred Tscheligi (University of Salzburg & AIT Austrian Institute of Technology GmbH, Salzburg & Vienna, Austria)

Charting Subtle Interaction in the HCI Literature Honourable Mention
- Henning Pohl (University of Copenhagen, Copenhagen, Denmark)
- Andreea Muresan (University of Copenhagen, Copenhagen, Denmark)
- Kasper Hornbæk (University of Copenhagen, Copenhagen, Denmark)

Relations are more than Bytes: Re-thinking the Benefits of Smart Services through People and Things
- Claude P. R. Heath (Royal Holloway, University of London, London, United Kingdom)
- Clara Crivellaro (Newcastle University, Newcastle upon Tyne, United Kingdom)
- Lizzie Coles-Kemp (Royal Holloway, University of London, London, United Kingdom)

Pay Attention, Please: Formal Language Improves Attention in Volunteer and Paid Online Experiments
- Tal August (University of Washington, Seattle, WA, USA)
- Katharina Reinecke (University of Washington, Seattle, WA, USA)

Decision-Making Under Uncertainty in Research Synthesis: Designing for the Garden of Forking Paths
- Alex Kale (University of Washington, Seattle, WA, USA)
- Matthew Kay (University of Michigan, Ann Arbor, MI, USA)
- Jessica Hullman (Northwestern University, Evanston, IL, USA)

Understanding the Boundaries between Policymaking and HCI Honourable Mention
- Anne Spa (Northumbria University, Newcastle upon Tyne, United Kingdom)
- Abigail Durrant (Northumbria University, Newcastle upon Tyne, United Kingdom)
- Chris Eldsen (Northumbria University, Newcastle upon Tyne, United Kingdom)
- John Vines (Northumbria University, Newcastle upon Tyne, United Kingdom)

HCI and Affective Health: Taking stock of a decade of studies and charting future research directions Honourable Mention
- Pedro Sanches (KTH Royal Institute of Technology in Stockholm, Stockholm, Sweden)
- Axel Janson (KTH Royal Institute of Technology in Stockholm, Stockholm, Sweden)
- Pavel Karpashevich (KTH Royal Institute of Technology in Stockholm, Stockholm, Sweden)
- Camille Nadal (Trinity College Dublin, Dublin, Ireland)
- Chengcheng Qu (Lancaster University, Lancaster, United Kingdom)
- Claudia Daudén Roquet (Lancaster University, Lancaster, United Kingdom)
- Muhammad Umair (Lancaster University, Lancaster, United Kingdom)
- Charles Windlin (KTH Royal Institute of Technology in Stockholm, Stockholm, Sweden)
- Gavin Doherty (Trinity College Dublin, Dublin, Ireland)
- Kristina Höök (Royal Institute of Technology KTH, Stockholm, Sweden)
- Corina Sas (Lancaster University, Lancaster, United Kingdom)

**Paper session: Conversational Interactions**
**Thursday - 14:00 - 15:20  Room: Carron 2**
**Chair: Toby Li**

**Chatbots, Humbots, and the Quest for Artificial General Intelligence**
- Jonathan Grudin (Microsoft Corporation, Redmond, WA, USA)
- Richard Jacques (Microsoft Corporation, Redmond, WA, USA)

**"Wait, Do I Know This Person?:" Understanding Misdirected Email**
- Emiilee Rader (Michigan State University, East Lansing, MI, USA)
- Anjali Munasinghe (Michigan State University, East Lansing, MI, USA)

**Opportunities for Automating Email Processing: A Need-Finding Study**
- Saya Park (Massachusetts Institute of Technology, Cambridge, MA, USA)
- Amy X. Zhang (Massachusetts Institute of Technology, Cambridge, MA, USA)
- Luke S. Murray (Massachusetts Institute of Technology, Cambridge, MA, USA)
- David R. Karger (Massachusetts Institute of Technology, Cambridge, MA, USA)

**Explaining Decision-Making Algorithms through UI: Strategies to Help Non-Expert Stakeholders**
- Hao-Fei Cheng (University of Minnesota, Minneapolis, MN, USA)
- Ruotong Wang (Macalester College, Saint Paul, MN, USA)
- Zheng Zhang (University of Minnesota, Minneapolis, MN, USA)
- Fiona O'Connell (University of Chicago, Chicago, IL, USA)
- Terrance Gray (University of Minnesota, Minneapolis, MN, USA)
- F. Maxwell Harper (University of Minnesota, Minneapolis, MN, USA)
- Haiyi Zhu (University of Minnesota, Minneapolis, MN, USA)

**Paper session: Multimodal Experiences**
**Thursday - 14:00 - 15:20  Room: Dochart 2**
**Chair: Kening Zhu**

**Sound Forest: Evaluation of an Accessible Multisensory Music Installation**
- Emma Fröjd (KTH Royal Institute of Technology, Stockholm, Sweden)
- Hans Lindetoro (KTH Royal Institute of Technology & KMH Royal College of Music, Stockholm, Sweden)
- Kjetil Falkenberg Hansen (KTH Royal Institute of Technology, Stockholm, Sweden)
- Ludvig Elblaus (KTH Royal Institute of Technology, Stockholm, Sweden)
- Roberto Bresin (KTH Royal Institute of Technology, Stockholm, Sweden)

**Integrated Workflows: Generating Feedback Between Digital and Physical Realms**
- Emreogon Gulyay (Aalto University, Espoo, Finland)
- Andräs Lucero (Aalto University, Espoo, Finland)

**ModiFiber: Two-Way Morphing Soft Thread Actuators for Tangible Interaction**
- Jack Forman (Carnegie Mellon University, Pittsburgh, PA, USA)
- Taylor Tabb (Carnegie Mellon University, Pittsburgh, PA, USA)
- Youngwook Do (Carnegie Mellon University, Pittsburgh, PA, USA)
- Meng-Han Yeh (Carnegie Mellon University, Pittsburgh, PA, USA)
- Adrian Galvin (Carnegie Mellon University, Pittsburgh, PA, USA)
- Lining Yao (Carnegie Mellon University, Pittsburgh, PA, USA)

**VibEye: Vibration-Mediated Object Recognition for Tangible Interactive Applications**
- Seungjae Oh (Pohang University of Science and Technology (POSTECH), Pohang, Republic of Korea)
- Gyeore Yun (Pohang University of Science and Technology (POSTECH), Pohang, Republic of Korea)
- Chaeyong Park (Pohang University of Science and Technology (POSTECH), Pohang, Republic of Korea)
- Jinsoo Kim (Pohang University of Science and Technology (POSTECH), Pohang, Republic of Korea)
- Seungmoon Choi (Pohang University of Science and Technology (POSTECH), Pohang, Republic of Korea)

**Paper session: Access for Families Across Context**
**Thursday - 14:00 - 15:20  Room: Alsh 1**
**Chair: Elisa Rubegni**

"Everything's the Phone": Understanding the Phone's Supercharged Role in Parent-Teen Relationships
- Katie Davis (University of Washington, Seattle, WA, USA)
- Anja Dinhopl (Laboratory for Intelligent Systems in Tourism, Menlo Park, CA, USA)
- Alexis Hiniker (University of Washington, Seattle, WA, USA)

"Everyone Brings Their Grain of Salt": Designing for Low-Literate Parental Engagement with a Mobile Literacy Technology in Côte d'Ivoire
- Michael A. Madaio (Carnegie Mellon University, Pittsburgh, PA, USA)
- Fabrice Tanoh (Université Félix Houphouët-Boigny, Abidjan, Ivory Coast)
- Axal Blahoua Seri (Institut de la Dignité et des Droits Humains, Abidjan, Ivory Coast)
- Kaja Jasinska (University of Delaware, Newark, DE, USA)
- Amy Ogan (Carnegie Mellon University, Pittsburgh, PA, USA)

A Walk on the Child Side: Investigating Parents’ and Children’s Experience and Perspective on Mobile Technology for Outdoor Child Independent Mobility Honourable Mention
- Michela Ferron (Fondazione Bruno Kessler, Trento, Italy)
- Chiara Leonardi (Fondazione Bruno Kessler, Trento, Italy)
- Paolo Massa (Fondazione Bruno Kessler, Trento, Italy)
- Gianluca Savi (Fondazione Bruno Kessler, Trento, Italy)
- Amy L. Murphy (Fondazione Bruno Kessler, Trento, Italy)
- Elisabetta Farella (Fondazione Bruno Kessler, Trento, Italy)
Paper session: Data and Collaboration
- Alexander Cho (University of California, Irvine, Irvine, CA, USA)
- Roxana G. Herrera (University of California, Irvine, Irvine, CA, USA)
- Luis Chaidez (University of California, Irvine, Irvine, CA, USA)
- Adliene Uriosteigui (University of California, Irvine, Irvine, CA, USA)

Paper session: Computational Approaches to Bodily Interaction
- Elena Simperl
- Jeni Tennison
- Emilia Kacprzak
- Guy Schofield
- Tom Bartindale
- Laura Koesten
- Tilman Dingler
- Jörn Hurtienne
- Daniel Reinhardt
- Radu-Daniel Vatavu
- Florian Alt

Room: Gala
Chair: Annu Joseph

Collaborative Practices with Structured Data: Do Tools Support What Users Need?
- Laura Koesten (University of Southampton, Southampton, United Kingdom)
- Emilia Kacprzak (University of Southampton, Southampton, United Kingdom)
- Jeni Tennison (The Open Data Institute, London, United Kingdom)
- Elena Simperi (University of Southampton, Southampton, United Kingdom)

Our Story: Addressing Challenges in Development Contexts for Sustainable Participatory Video
- Tom Bartindale (Monash University, Melbourne, Australia)
- Delwin Varghese (Newcastle University, Newcastle upon Tyne, United Kingdom)
- Guy Schofield (University of York, York, United Kingdom)
- Miki Tsukamoto (International Federation of Red Cross & Red Crescent Societies, Geneva, Switzerland)

People Who Can Take It: How Women Wikipedians Negotiate and Navigate Safety
- Amanda Menking (University of Washington, Seattle, WA, USA)
- Ingrid Erickson (Syracuse University, Syracuse, NY, USA)
- Wanda Pratt (University of Washington, Seattle, WA, USA)

Encoding Materials and Data for Iterative Personalization
- Troy Nachtigall (Eindhoven University of Technology, Eindhoven, Netherlands)
- Oscar Tomico (Eindhoven University of Technology & Elisava, Eindhoven, Netherlands)
Ron Wakkary (Eindhoven University of Technology & Simon Fraser University, Eindhoven, Netherlands)
Pauline van Dongen (Eindhoven University of Technology, Eindhoven, Netherlands)

Paper session: Civic Engagement, Trust, and Meaning
Thursday - 14:00 - 15:20  Room: Dochart 1
Chair: Jessica Colnago

Online Idea Management for Civic Engagement: A Study on the Benefits of Integration with Social Networking
- Jorge Saldivar (Catholic University, Asuncion, Paraguay)
- Florian Daniel (Politecnico di Milano, Milan, Italy)
- Luca Cernuzzi (Catholic University of Asuncion, Asuncion, Paraguay)
- Fabio Casati (University of Trento, Trento, Italy)

Older Adults' Deployment of 'Distrust'
- Bran Knowles (Lancaster University, Lancaster, United Kingdom)
- Vicki L. Hanson (Rochester Institute of Technology, Rochester, New York, USA)

Personal Informatics for Sport: Meaning, Body, and Social Relations in Amateur and Elite Athletes
- Amon Rapp (University of Torino, Torino, Italy)
- Lia Tirabeni (University of Torino, Torino, Italy)

Special Interest Group (SIG): Expecting the Unexpected in Participatory Design
Thursday - 14:00 - 15:20  Room: Island A CROWNE

Expecting the Unexpected in Participatory Design
- Aurora Constantin (University of Edinburgh, Edinburgh, United Kingdom)
- Jessica Korte (University of Queensland, St Lucia, Australia)
- Jerry Alan Fails (Boise State University, Boise, ID, USA)
- Cristina Adriana Alexandru (University of Edinburgh, Edinburgh, United Kingdom)
- Mihaela Dragomir (University of Edinburgh, Edinburgh, United Kingdom)
- Helen Pain (University of Edinburgh, Edinburgh, United Kingdom)
- Judith Good (University of Sussex, Falmer, Brighton, United Kingdom)
- Franca Garzotto (Politecnico di Milano, Milan, Italy)
- Eva Eriksson (Aarhus University, Aarhus, Denmark)
- Annalu Waller (University of Dundee, Dundee, United Kingdom)

Thursday - 15:20 - 15:40
Break: Afternoon coffee break
Thursday - 15:20 - 15:40  Room: Clyde Auditorium Foyer
Break: Afternoon coffee break
Thursday - 15:20 - 15:40  Room: SEC Concourse

Thursday - 15:40 - 17:10
Keynote: Closing Keynote
Thursday - 15:40 - 17:10  Room: Clyde Auditorium
- Ivan Poupyrev (Google, San Francisco, USA)
Hoʻomaluō

To conserve, to use and manage wisely. At a nexus of four continents, we celebrate the Aloha spirit, to cherish and protect what is given, for now and for the future. As the plumeria, or "pua melia," represents positivity and new beginnings, CHI 2020 brings together a beautiful multicultural and diverse community, in an equally beautiful and stimulating environment. Here, we celebrate positivity, and balance work and life to nurture new beginnings.

Aloha!

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**Submission Deadlines**

<table>
<thead>
<tr>
<th>Papers</th>
<th>Other Venues</th>
</tr>
</thead>
<tbody>
<tr>
<td>13 September 2019</td>
<td>16 October 2019</td>
</tr>
<tr>
<td>Title, abstract, authors</td>
<td>Case Studies, Courses, Doctoral Consortium, Workshops, Symposia</td>
</tr>
<tr>
<td>20 September 2019</td>
<td>18 December 2019</td>
</tr>
<tr>
<td>All materials</td>
<td>Panels, Special Interest Groups (SIGs)</td>
</tr>
<tr>
<td></td>
<td>6 January 2020</td>
</tr>
<tr>
<td></td>
<td>Alt.CHI, Interactivity/Demos, Late Breaking Work, Student Games Competition (SGC), Student Research Competition (SRC)</td>
</tr>
</tbody>
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