

Multisensory, User-centred, Shared cultural Experiences through Interactive Technologies 2022 - 2025

Haptics for Inclusion

Enhancing Inclusion and Accessibility Through Haptic Technologies Demonstrations, Workshops, Networking and Collaborative Exploration

6-7 November 2023 UNIVERSITY OF BORÅS

ALLÉGATAN 1, BORÅS, SWEDEN

SYMPOSIUM PROGRAMME

6 November 2023 - Knowledge Exchange

Online via Teams: Click here to join the meeting

Meeting ID: 315 805 182 917

Passcode: Fmrc8a

Download Teams | Join on the web

Room: M401

08:30-08:50	Registration
08:50-09:05	Welcome and Symposium opening
09:05-09:35	Keynote speech: Astrid Kappers – Haptic perception and haptic devices for communication
09:40-09:55	Lloyd May – Musical Haptics: For and By Who?
09:55-10:10	Kat Allen – Haptic communication for Human-Robot Interaction
14:05-14:20	Karolina Pakėnaitė – Creating Accessible Tactile Images using Semantic Information from Photographs
10:25 - 10:40	Lucia Seminara – TACTA: A Transdisciplinary approach to Haptics
10:40-10:50	Break

10:50-11:00 Kari Jokstad – Eikholt - a living lab for co-creation in innovation

10:55-11:10	Arthur Theil – Designing Haptic Technologies with and for the Deafblind Community: Recent Advancements and Future Directions	
11:10-12:00	Karin van Dijk & Katharina Kauruff – Playing flute without arms?!? Adapted music instruments for everyone	
12:00-13:00	Lunch	
Room: M404		
13:00-13:20	Alin Galateanu – The ODD Ball	
13:20-13:40	Peter Larsson & Lloyd May - Reflecting on Co-Design In Musical Contexts	
13:40-13:55	Katerina Valakou – SHIFT Framework: Enabling Accessibility by Design for the Development in XR Environments	
13:55-14:10	Craig Anderton – How Commercial Virtual Reality Developers Implement Haptic Feedback	
14:10-14:25	Christina Karpodini – Vibrotactile wearable systems for non-visual computer interaction with music applications	
14:25-14:40	Calua de Lacerda Pataca – Enhancing Affective Captions with Haptic Feedback	
14:40-14:55	Joseph Grannum – Enhancing Accessibility and Inclusion for Elderly Individuals and Disabled in the Aging European Population: A Conceptual Framework for Using Wearable Sensors and Extended Reality	
14:55-15:05	Break	
15:05-15:35	Kuai Shen – Chemical darkness and tactile tactics in ants that smell the rain	
15:35-15:50	Raymond Holt – Imagining Haptic Technologies for Disability Futures	
15:50-16:00	Johannes Väänänen – Telehaptic sight revolution	
16:00-17:00	Participatory brainstorming and action plans	

Mingle and continuation of networking through direct contacts

17:00

7 November 2023

Parallel participatory studies - Closed Sessions

Attendance at these sessions is restricted to study participants.

Venue: DoTank

Textile Fashion Center, Skaraborgsvägen 3A, 506 30 Borås

09:00-09:15 Registration

09:15-09:30 Introduction - MuseIT and purpose for the studies (Plenary session)

09:30-09:40 Room change break

Session A (Room: T369)

09:40-11:45 The study session (including break)

- Short round the table introductions (smaller group)
- Short intro to the session and Informed consent (moderator)
- Presentation of the devices and tools (Damien, and we)
- Hands on testing and experience sharing
- Group discussion and brainstorming

11:45-12:00 Conclusion

Session B (Room: T412)

9:40-9:55	Short round the table introductions, group making (collecting informed
	consent forms)
9:55-10:15	Short intro to the session 2
10:15-11:15	Hands-on exploration of the artifacts based on 4 experiential levels
11:15-11:45	Group discussion, reflection
11:45-12:00	Conclusion

12:00-13:00 Lunch

Discovery Den

Venue: DoTank

Online connection:

https://us06web.zoom.us/j/87925274869?pwd=I9bwGdbDsn8BbjJod0TmScBd0Ybmon.1

Meeting ID: 879 2527 4869

Passcode: hap2023

- 13:00-13:15 Welcome (Nasrine Olson) Haptic Lab Inauguration (Kim Bolton)
- 13:15-13:20 Introduction and background
- 13:20-17:00 Interactive Demonstrations
 - Sound & Fashion: Inclusive designing and presenting practices Vidmina Stasiulyte (13:20-13:25)
 - Bespoke haptic signals in music translation Lloyd May (13:25-13:30)

- Vibrotactile feedback patterns in a hand-based wearable device with multiple actuators -Christina Karpodini (13:30-13:35)
- 7sense "HapCap" Rolf Lund, Johannes Väänänen, Fereshteh Halimi (13:35-14:10)
- Adapted music instruments nothing is impossible Karin van Dijk, Katharina Kauruff & Ruud van der Wel (14:10-14:30)
- Chemical darkness and tactile tactics in ants that smell the rain Kuai Shen (14:30-14:35)
- Vibrotactile technology for emulating Social Haptic Communication Myrthe Plaisier (14:35-14:40)
- Tabletop Testing of Navigation & Feel the Physics: Tactile Presentation of Geophysics
 Data Raymond Holt
- Hands-on demonstration of handheld controller navigation haptic cues in Virtual Reality -Craig
- Anderton
- AR Demo/Poster: Vision-based Sound Rendering Pipelines for Augmented Acoustics -Mattia
- Colombo
- Active-Proprioceptive-Vibrotactile and Passive-Vibrotactile Haptics for Navigation Hassan Dogar
- Using mid-air haptics for communication George Fence
- Use of Haptic Feedback to Convey a Speaker's Arousal Levels Calua de Lacerda Pataca
- The ODD Ball Nasrine Olson for Alin Galateanu











