



INTUITIVE Research School 1

Location: Zoom

Dates: May 3–6, 2021

Agenda Day 1, May 3, 2021, Zoom

- 9.00 Welcome
The project Coordinator opens the Research School
- 9.15 Presentation from Lund University (H. Jörntell)
Brain Function in Haptics
- 9.35 Presentation from TATA Consultancy Service (B.Rai)
In-Silico Modelling of Human Skin for Drug Delivery and Cosmetics Application
- 9.55 Presentation from Actronika (V. Hayward)
Haptics from Theory to Applications
- 10.15 Break**
- 10.30 Poster Session (ESRs)
Presentation and discussion of posters in small groups
- 12.00 Lunch**
- 13.00 Paper Writing, Workshop (V. Hayward, E. Burdet, P. König)
- 14.00 Break**
- 14.15 Journal Club (ESRs)
Presentation of 4 Different Papers that the ESRs considers important for the INTUITIVE Project
- Sofie Skårup Kristensen presenting*
Jörntell, H., Bengtsson, F., Geborek, P., Spanne, A., Terekhov, A. V, & Hayward, V. (2014). Article Segregation of Tactile Input Features in Neurons of the Cuneate Nucleus. 1–9.
- Gaspar Ramoa presenting*
Anonymous Author(s). 2018. Classification of 2D refreshable tactile user interfaces. In Proceedings of ASSETS '21: International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '21). ACM, New York, NY, USA, 15 pages.



Inci Rüya Temel presenting

Chortos, A., Liu, J., & Bao, Z. (2016). Pursuing prosthetic electronic skin. Nature Materials, 15(9), 937–950.

Mark Daniel Alea presenting

Van Assche, J., & Gielen, G. (2020). Power Efficiency Comparison of Event-Driven and Fixed-Rate Signal Conversion and Compression for Biomedical Applications. IEEE Transactions on Biomedical Circuits and Systems, 14(4), 746–756.

16.15 **Wrap-Up Day 1**



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Agenda Day 2, May 4, 2021, Zoom

- 9.00 Stand-Up (ESRs)
What did you learn yesterday
- 9.15 Presentation from Karlsruhe Institute of Technology (T. Schwartz)
Accessible Documents and Modern Ways to Get There
- 9.35 Presentation from Inventivio GmbH (A. Hars)
Protecting Intellectual Property with Patents
- 9.55 Presentation from University Osnabrück (P. König)
Embodied Cognition
- 10.15 Break**
- 10.30 Speed-dating Secondments (ESRs)
The ESRs discuss their upcoming secondments in pairs, an outgoing ESR meets an ESR working at the site he/she is going to. Three slots of 30 minutes each.
- 12.00 Lunch**
- 13.00 Report on Secondment Plans (ESRs)
ESRs report about the results during the speed-dating
- 14.00 Break**
- 14.10 PI coordinator outlook (H. Jörntell, L. Lorenzelli)
What are the next plans for the INTUITIVE project
- 14.50 Break**



- 15.00 Lecture Prof. Gerald Loeb
Intelligent Machines that Grasp Affordance
- 16.30 **Wrap-up day 2**



INTUITIVE Research School 1

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Dates: May 3–6, 2021

Agenda Day 3, May 5, 2021, Zoom

- 9.00 Stand-Up (ESRs)
What did you learn yesterday
- 9.15 Intellectual Property, Workshop (V. Hayward)
- 10.25 Break**
- 10.40 Presentation from Imperial Collage (E. Burdet)
Extracting Haptic Information During Interaction
- 11.00 Presentation from Össur (A. Sverrisson)
Introduction to Össur's Bionic Products
- 11.20 Presentation from BMW (M. Kaboli)
Tactile Intelligence in Robotics and Cognitive Vehicles
- 11.40 Presentation from Shadow Robot Company (R. Gudipati)
Why Build Robot Hands with Sense of Touch?
- 12.00 Lunch**
- ESR's Individual Presentation**
- 13.00 ESR1: Kaan Kesgin, ULUND
- 13.10 ESR2: Sofie Skårup Kristensen, ULUND
- 13.20 ESR3: Yerkebulan Massalim, ACA
- 13.30 ESR4: Shashank Mishra, UoG
- 13.40 ESR5: Aruna Ramasamy, ACA
- 13.50 Break**
- 14.00 ESR6: Vincent Schmidt, UOS



- 14.10 ESR7: Alexis Devillard, ICL
- 14.20 ESR8: Mahdieh Shojaei Baghini, UoG
- 14.30 ESR9: Bhavani Yalagala, UoG
- 14.40 ESR10: Inci Rüya Temel, FBK

14.40 Break

- 15.00 ESR11: Mark Daniel Alea, KUL
- 15.10 ESR12: Rudra Mukherjee, UoG
- 15.20 ESR13: Omar Moured, KIT
- 15.30 ESR14: Anirvan Dutti, BMW
- 15.40 ESR15: Gaspar Ramoa, IVO

15.50 Wrap-up day 3



INTUITIVE Research School 1

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Dates: May 3–6, 2021

Agenda Day 4, May 6, 2021, Zoom

- 9.00 Stand-Up (ESRs)
What did you learn yesterday
- 9.15 Presentation from University of Glasgow (R. Dahiya)
Electronic Skin
- 9.35 Presentation from Fondazione Bruno Kessler (L. Lorenzelli)
Technologies and devices for tactile sensing at FBK
- 09.45 Break**
- 10.30 Student Presentation (I. Temel)
Design and Development of a Shear Stress Sensor Using Soft-MEMS for Slip Detection in Prosthetic Arm
- 11.15 Student Presentation (M. Baghini)
Design and Development of Flexible Micro-magnetic Actuators for Synthetic Skin and Tactile Feedback
- 12.00 Wrap-up day 4**