

9.10 Keynote: Kasper Hornbæk
10.20 Break
11.00 Session 4: Sports and Gestures
12.10 Break
13.30 Session 5: Cognition
14.00 Break
15.20 Session 6: HCl Futures, from Skin to Cells
16.30 Break
16.30 Keynote: Enkelejda Kasneci
16.50 Keynote: Enkelejda Kasneci

Tuesday March 17th

9.10 Opening
9.40 Keynote: Stelarc
10.40 Break
11.00 Session 1: Perception I - Light
12.20 Break
15.10 Break
15.10 Break
16.00 Session 3: Moving and Experiencing the Body
16.00 Session 3: Moving and Experiencing the Body

Monday March 16th

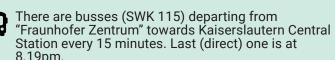
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<< Program Overview >>

<< Materials >>

Transport | Bus & Taxi

Taxizentrale Kaiserslautern +49 (0)631 366777



Electronics | Hardware | Missing Adapters

Mediamarkt
Hohenecker Str. 26, 67663 Kaiserslautern
10am - 8pm

Medical Supplies

Universitäts-Apotheke (drug store)
Davenportplatz 13 (10 min walk from DFKI)
8.30am - 6.30pm

Remote Sessions

Please check the program on the conference web-page for access to the remote sessions and discussions. You can find the password below.

Papers | Proceedings

The proceedings are available (in pdf format) here:

https://cloud.dfki.de/owncloud/index.php/s/D5FiTLk2mmGDafi

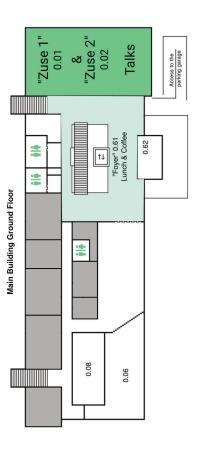
Posters

Posters are available here:

https://cloud.dfki.de/owncloud/index.php/s/rWWrcJiLCYCaNba

Remote Access Code: DiscussionAHs2020

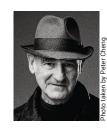
<< Program Overview >>



<< Keynotes >>

Stelarc

Contemporary Chimeras: Creepy, Uncanny and Contestable Bodies



Kasper Hornbæk

Research Problems in Body-based User Interfaces



Enkelejda Kasneci

It's in Your Eyes - How Eye Tracking will Shape our Future







 Archery shots visualization by clustering and comparing from angular velocities of bows
 Midori Kawaguchi, Mitake Hironori and Shoich Hasegawa

The Jungle Warm-Up Run: Augmenting Athletes with Coach-Guided Dynamic Game Elements Frederik Wiehr, Marko Vujic, Antonio Krueger and Florian Daiber

waveSense: Low Power Voxel-tracking Technique for Resource Limited Devices Annaha Withana, Tharindu Kaluarachchi, Chanaka Singhabahu, Shanaka Ransiri and Suranga Nanayakkara

Beginners in Climbing Using a Neural Network Katsuhito Sasaki, Keisuke Shiro and Jun Rekimoto

ExemPoser: Predicting Poses of Experts as Examples for

Richard Li, Juyoung Lee, Thad Starner and Woontack Woo

WissGlass: Greeting Gesture Recognition using Smart

Tuesday March 17th, 10.40 - 12.10

Sports and Gestures

Displaying Body Movement in Shared VR Space Kenta Saito, Ataushi Okada, Yu Matsumura and Jun Rekimoto

 Remote Treatment System of Phantom Limb Pain by Displaying Body Movement in Shared VR Space

Go-Through: Disabling Collision to Access Obstructed Paths and Open Occluded Views in Social VR Jens Reinhardt and Katrin Wolf

 Investigation of Effective Parts for Rotation and Translation of the Legs Using Hanger Reflex Hanamichi Sanada, Masato Kobayashi, Kon Yuki and Hiroyuki Kajimoto

Observation of a Person in a Video with Ambiguous Pose Indexes and Performed Poses
Natsuki Hamanishi and Jun Rekimoto

Accelerating Skill Acquisition of Two-Handed Drumming using Pneumatic Artificial Muscles
 Takashi Goto, Swagata Das, Pedro Lopes, Yuichi Kurita and Kai Kunze
 PoseAsQuery: Full-Body interface for Repeated

Sensor Glove Implemented With Artificial Muscle Set For Hand Rehabilitation Biyuan Wang, Mobuhiro Takahashi and Hideki Koike

04.71 - 00.61, 16.00 - 17.40

Moving and Experiencing the Body

<< 2 HOISSƏS >>

<< Session 6 >>

HCI Futures, from Skin to Cells

Tuesday March 17th, 15.00 - 16.20

 VersaTouch: A Versatile Plug-and-Play System that EnablesTouch Interactions on Everyday Passive Surfaces Yilei Shi, Haimo Zhang, Jiashuo Cao and Suranga Nanayakkara

 WristLens: Enabling Single-Handed Surface Gesture Interaction for Wrist-Worn Devices using Optical Motion Sensor

Hui-Shyong Yeo, Juyoung Lee, Andrea Bianchi, Alejandro Samboy, Hideki Koike, Woontack Woo and Aaron Quigley

PDMSkin: On-Skin Gestures with Printable Ultra-Stretchable Soft Electronic Second Skin Tobias Röddinger, Michael Beigl, Daniel Wolffram, Matthias Budde and Hongye Sun

Sketching On-Body Interactions using Piezo-Resistive Kinesiology Tape Paul Strohmeier, Narges Pourjafarian, Marion Koelle, Cedric Honnet, Bruno Fruchard and Jürgen Steimle

 Living Bits: Opportunities and Challenges for Integrating Living Microorganisms in Human-Computer Interaction Pat Pataranutaporn, Angela Vujic, Misha Sra, David Kong and Pattie Maes





Magnet Paul Strohmeier and Jess McIntosh

● Novel Input and Output opportunities using an Implanted

Manipulatable Auditory Perception in Wearable Computing
Hiroki Watanabe and Tsutomu Terada

GenVibe: Exploration of Interactive Generation of Personal Vibrotactile Patterns
Erik Pescara, Florian Dreschner, Karola Marky and Michael Beigl

HapticPointer: A Neck-worn Device that Presents
Direction by Vibrotactile Feedback for Remote
Collaboration Tasks
Akira Matsuda, Kazunori Nozawa, Kazuki Takata, Atsushi
Isumihara and Jun Rekimoto

The Lateral Line: Augmenting Spatiotemporal Perception with a Tactile Interface Matti Krüger, Christiane B. Wiebel-Herboth and Heiko Wersing

Monday March 16th, 13.40 - 15.10

Perception II - Vibration

• full paper, 15+5 min presentation slot, including Q&A
• short paper, 7+3 min presentation slot, including Q&A

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OmniView: An Exploratory Study of 360 Degree Vision using Dynamic Distortion based on Direction-of-Interest Feng Liang, Kevin Stevanus, Kai Kunze, Holger Baldauf and Yun, Suen Pai

Completion Tsubasa Kitayama, Shio Miyafuji and Hideki Koike

Vision Extension For Ball Camera by Using Image

ltoh

Capable See-Through Display

Yuichi Hiroi, Takumi Kaminokado, Atsushi Mori and Yuta

DehazeGlasses: Optical Dehazing with an Occlusion

Reality
Pascal Knierim, Thomas Kosch, Gabrielle LaBorwit and
Albrecht Schmidt

 Altering the Speed of Reality? Exploring Visual Slow-Motion to Amplify Human Perception using Augmented

 Eye-based Interaction Using Embedded Optical Sensors on an Eyewear Device for Facial Expression Recognition Katsutoshi Masai, Kai Kunze and Maki Sugimoto

02.21 - 00.11 ,401 A2.6M yebnoM

Perception I Light

<< Session 2 >>

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<< Demos & Posters >>

EgoSpace: Augmenting Egocentric Space by Wearable Projector

Yuya Adachi, Haoran Xie, Takuma Torii, Haopeng Zhang and Ryo Sagisaka

Towards a Wearable for Deep Water Blackout Prevention

Frederik Wiehr, Andreas Höh and Antonio Krueger

High-speed Projection Method of Swing Plane for Golf Training

Tomohiro Sueishi, Chikara Miyaji, Masataka Narumiya, Yuji Yamakawa and Masatoshi Ishikawa

GymSoles++: Using Smart Wearbales to Improve Body Posture when Performing Squats and Dead-Lifts Don Samitha Elvitigala, Denys J.C. Matthies, Chamod Weerasinghe and Suranga Nanayakkara

e2-MaskZ: A Mask-type Display with Facial Expression Identification using Embedded Photo Reflective Sensors

Akino Umezawa, Yoshinari Takegawa, Katsuhiro Suzuki, Katsutoshi Masai, Yuta Sugiura, Maki Sugimoto, Yutaka Tokuda, Diego Martinez Plasencia, Sriram Subramanian, Masafumi Takahashi, Hiroaki Taka and Keiji Hirata

Understanding Face Gestures with a User-Centered Approach Using Personal Computer Applications as an Example

Yenchin Lai, Benjamin Tag, Kai Kunze and Rainer Malaka Augmented Workplace: Human-Sensor Interaction for Improving the Work Environment Yutaka Arakawa

Conformal Wearable Devices for Expressive On-Skin Interaction

Aditya Shekhar Nittala, Arshad Khan and Jürgen Steimle









<< † UOISSƏS >>

<< Session 5 >>

 Design of Altered Cognition with Reshaped Bodies Kenichiro Shirota, Makoto Uju, Yurike Chandra, Elaine Czech, Roshan L. Peiris and Kouta Minamizawa

 Wearable Reasoner: Towards Enhanced Human Rationality Through A Wearable Device With an Explainable Al Assistant Valdemar Danry, Pat Pataranutaporn, Yaoli Mao and Pattie

SpotlessMind - A Design Probe for Eliciting Attitudes towards Sharing Neurofeedback
Passant El.Agroudy, Xiyue Wang, Evgeny Stemasov, Teresa Hirzle, Svetlana Shishkovets, Siddharth Mehrotra and Albrecht Schmidt

 Facilitating Experiential Knowledge Sharing through Situated Conversations
 Ryo Fujikura and Yasuyuki Sumi