



		<b>Premier Ballroom (A/B)</b>
<b>Session Title</b>	Live Demo Presentation Session 3 (D2A1~D2A25)	
<b>Session Chair</b>	Kouta Minanizawa (Keio University, Japan)	
<b>Date</b>	November 16, 2018 (Friday)	
<b>Time</b>	10:00~11:30	

- D2A01 10:00-10:03(3')** **Human Rendezvous via Haptic Suggestion**  
*Gianluca Paolucci<sup>1,2</sup>, Tommaso Lisini Baldi<sup>1</sup>, and Domenico Prattichizzo<sup>1,2</sup>*  
<sup>1</sup>University of Siena, Italy, <sup>2</sup>Istituto Italiano di Tecnologia, Italy
- D2A02 10:03-10:06(3')** **Circular Lateral Modulation in Airborne Ultrasound Tactile Display**  
*Ryoko Takahashi, Saya Mizutani, Keisuke Hasegawa, Masahiro Fujiwara, and Hiroyuki Shinoda*  
The University of Tokyo, Japan
- D2A03 10:06-10:09(3')** **2D Braille Display Module Using Rotating Latch Structured Voice Coil Actuator**  
*Joonyeong Kim, Byung-Kil Han, and Dong-Soo Kwon*  
Korea Advanced Institute of Science and Technology, Korea
- D2A04 10:09-10:12(3')** **Remotely Displaying Cooling Sensation Using Ultrasound Mist Beam**  
*Mitsuru Nakajima, Keisuke Hasegawa, Yasutoshi Makino, and Hiroyuki Shinoda*  
The University of Tokyo, Japan
- D2A05 10:12-10:15(3')** **Efficiency of Haptic Search Facilitated by the Scale Division**  
*Hirotsugu Kaga and Tetsuya Watanabe*  
University of Niigata, Japan
- D2A06 10:15-10:18(3')** **Body-Ownership Illusion by Gazing at a Blurred Fake Hand Image**  
*Hikaru Hasegawa<sup>1</sup>, Shogo Okamoto<sup>1</sup>, Nader Rajaei<sup>1</sup>, Masayuki Hara<sup>2</sup>, Noriaki Kanayama<sup>3</sup>, Yasuhiro Akiyama<sup>1</sup>, and Yoji Yamada<sup>1</sup>*  
<sup>1</sup>Nagoya University, Japan, <sup>2</sup>Saitama University, Japan, <sup>3</sup>National Institute of Advanced Industrial Science and Technology, Japan
- D2A07 10:18-10:21(3')** **Allowable Range of Consistency Between the Visual and Tactile Presentations of a Linear Grating Texture**  
*Shun Yamaguchi, Seitaro Kaneko, and Hiroyuki Kajimoto*  
University of Electro-Communications, Japan
- D2A08 10:21-10:24(3')** **Haptic Texture Authoring: A Demonstration**  
*Waseem Hassan, Arsen Abdulali, and Seokhee Jeon*  
Kyung Hee University, Korea
- D2A09 10:24-10:27(3')** **SwarmGlove: A Wearable Tactile Device for Navigation of Swarm of Drones in VR Environment**  
*Luiza Labazanova, Akerke Tleugazy, Evgeny Tsykunov, and Dzmitry Tsetserukou*



Skolkovo Institute of Science and Technology, Russian Federation

- D2A10 10:27-10:30(3')** **Tactile Transfer Glove Using Vibration Motor**  
*Sang Hun Jung<sup>1,2</sup> and Bummo Ahn<sup>1,3</sup>*  
<sup>1</sup>Korea Institute of Industrial Technology, Korea, <sup>2</sup>Incheon National University, Korea, <sup>3</sup>University of Science and Technology, Korea
- D2A11 10:30-10:33(3')** **LiquidVR - Wetness Sensations for Immersive Virtual Reality Experiences**  
*Kenichiro Shirota<sup>1</sup>, Makoto Uju<sup>1</sup>, Roshan Peiris<sup>1</sup>, and Kouta Minamizawa<sup>1</sup>*  
Keio University Graduate School of Media Design, Japan
- D2A12 10:33-10:36(3')** **Dental Simulator with Increased Z-Width of Haptic Rendering**  
*Hyojoon Park, Myungsin Kim, and Dongjun Lee*  
Seoul National University, Korea
- D2A13 10:36-10:39(3')** **Random Forest for Modeling and Rendering of Viscoelastic Deformable Objects**  
*Hojun Cha, Amit Bhardwaj, Chaeyong Park, and Seungmoon Choi*  
Pohang University of Science and Technology, Korea
- D2A14 10:39-10:42(3')** **A Teleoperation System for Reproducing Tactile Perception Using Frequency Channel Segregation**  
*Po-Hung Lin and Shana Smith*  
National Taiwan University, Taiwan
- D2A15 10:42-10:45(3')** **Extended AirPiano: Visuohaptic Virtual Piano with Multiple Ultrasonic Array Modules**  
*Inwook Hwang and Sungryul Yun*  
Electronics and Telecommunications Research Institute, Korea
- D2A16 10:45-10:48(3')** **Rigid-body Collaborative Manipulation Among Remote Users with Wearable Cutaneous Haptic Interfaces**  
*Myungsin Kim, WonHa Lee, Hyojoon Park, Junghan Kwon, Yong-Lae Park, and Dongjun Lee*  
Seoul National University, Korea
- D2A17 10:48-10:51(3')** **Hapto-Band: Wristband Haptic Device Conveying Information**  
*Makiko Azuma, Takuya Handa, Toshihiro Shimizu, and Satoru Kondo*  
NHK (Japan Broadcasting Corporation), Japan
- D2A18 10:51-10:54(3')** **Enhancing Haptic Experience in a Seat with Two-DoF Buttock Skin Stretch**  
*Arata Horie, Akito Nomura, Kenjiro Tadakuma, Masashi Konyo, Hikaru Nagano, and Satoshi Tadokoro*  
Tohoku University, Japan
- D2A19 10:54-10:57(3')** **Spatiotemporal Tactile Display with Tangential Force and Normal Skin Vibration Generated by Shaft End-Effectors**  
*Takumi Shimada<sup>1</sup>, Yo Kamishohara<sup>1</sup>, Vibol Yem<sup>1</sup>, Tomohiro Amemiya<sup>2</sup>, Yasushi*



AsiaHaptics 2018

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<sup>1</sup>Tokyo Metropolitan University, Japan, <sup>2</sup>NTT Communications Science Laboratories, Japan, <sup>3</sup>Toyohashi University of Technology, Japan

- D2A20 10:57-11:00(3')** **A Large-Scale Fabric-based Tactile Sensor Using Electrical Resistance Tomography**  
*Hyosang Lee<sup>1</sup>, Kyungseo Park<sup>2</sup>, Jung Kim<sup>2</sup>, and Katherine J. Kuchenbecker<sup>1</sup>*  
<sup>1</sup>Max Planck Institute for Intelligent Systems, Germany, <sup>2</sup> Korea Advanced Institute of Science and Technology, Korea
- D2A21 11:00-11:03(3')** **Haptic Eye: A Contactless Material Classification System**  
*Tamas Aujeszky, Georgios Korres, and Mohamad Eid*  
New York University Abu Dhabi, UAE
- D2A22 11:03-11:06(3')** **Seesaw Type Actuator For Haptic Application**  
*Kahye Song, Jung-Min Park, and Youngsu Cha*  
Korea Institute of Science and Technology, Korea
- D2A23 11:06-11:09(3')** **Conceptual Design of Soft and Transprent Vibrotactile Actuator**  
*Dong-Soo Choi and Sang-Youn Kim*  
Korea University of Technology and Education, Korea
- D2A24 11:09-11:12(3')** **Baby Touch: Quantifying Visual-Haptic Exploratory Behaviors in Infants of Sensory-Motor Development**  
*Kazuki Sakurada<sup>1</sup>, Akari Oka<sup>1</sup>, Ritsuko Kiso<sup>1</sup>, Leina Shimabukuro<sup>1</sup> Aoba Ueno<sup>1</sup>, and Masashi Nakatani<sup>1,2</sup>*  
<sup>1</sup>Keio University, Japan, <sup>2</sup>JST PRESTO, Japan
- D2A25 11:12-11:15(3')** **Exciting but Comfortable: Applying Haptic Feedback to Stabilized Action-Cam Videos**  
*Daniel Gongora, Hikaru Nagano, Masashi Konyo, and Satoshi Tadokoro*  
Tohoku University, Japan