



		Premier Ballroom A+B
Session Title	Live Demo Presentation Session 1 (D1A1~D1A30)	
Session Chair	Antonio Frisoli (SSSA, Italy)	
Date	November 15, 2018 (Thursday)	
Time	10:00~11:30	

- D1A01 10:00-10:03(3')** **Drone Based Kinesthetic Haptic Interface for Virtual Reality Applications**
Muhammad Abdullah¹, Ahsan Raza¹, Yoshihiro Kuroda¹, and Seokhee Jeon²
¹Kyung Hee University, Korea, ²Osaka University, Japan
- D1A02 10:03-10:06(3')** **Encounter-type Haptic Feedback System Using an Acoustically Manipulated Floating Object**
Takuro Furumoto, Yutaro Toide, Masahiro Fujiwara, Yasutoshi Makino, and Hiroyuki Shinoda
The University of Tokyo, Japan
- D1A03 10:06-10:09(3')** **A Surface Texture Display for Flexible Virtual Objects**
Lei Lu, Yuru Zhang, Xingwei Guo, and Dangxiao Wang
Beihang University, China
- D1A04 10:09-10:12(3')** **Tactile Perception Effects of Shear Force Feedback and Vibrotactile Feedback on Virtual Texture Representations**
Chia-Wei Lin and Shana Smith
National Taiwan University, Taiwan
- D1A05 10:12-10:15(3')** **Whole Body Haptic Experience Using 2D Communication Wear**
Kohki Serizawa¹, Yuichi Masuda¹, Shun Suzuki¹, Masahiro Fujiwara¹, Akihito Noda², Yasutoshi Makino¹, and Hiroyuki Shinoda¹
¹The University of Tokyo, Japan, ²Nanzan University, Japan
- D1A06 10:15-10:18(3')** **A Haptic Feedback Touch Panel**
Seung Mo Jeong¹, Dongbum Pyo², Ki-Uk Kyung¹, and Sungryul Yun²
¹Korea Advanced Institute of Science and Technology, Korea, ²Electronics and Telecommunications Research Institute, Korea
- D1A07 10:18-10:21(3')** **LinkGlide: A Wearable Haptic Display with Inverted Five-Bar Linkages for Delivering Multi-contact and Multi-Modal Tactile Stimuli**
Miguel Altamirano Cabrera and Dzmitry Tsetserukou
Skolkovo Institute of Science and Technology, Russian Federation
- D1A08 10:21-10:24(3')** **Pneumatic Actuated Haptic Glove to Interact with the Virtual Human**
Aishwari Talhan, Hwangil Kim, Sanjeet Kumar, Ahsan Raza, and Seokhee Jeon
Kyung Hee University, Korea
- D1A09 10:24-10:27(3')** **Wearable Haptic Device that Presents the Haptics Sensation of a Finger Pad to the Forearm and Fingertip**



Taha Moriyama and Hiroyuki Kajimoto
University of Electro-Communications, Japan

- D1A10 10:27-10:30(3')** **Thermal-Radiation-Based Haptic Display - Laser-Emission-Based Radiation System -**
Satoshi Saga
Kumamoto University, Japan
- D1A11 10:30-10:33(3')** **Spatial Haptic Feedback Virtual Reality Controller for Manipulator Teleoperation Using Unreal Engine**
Jae Min Lee, Dong Yeop Kim, and Jung-Hoon Hwang
Korea Electronics Technology Institute, Korea
- D1A12 10:33-10:36(3')** **A Two-DOF Impact Actuator for Haptic Interaction**
Sangyoon Kim¹, Bukun Son¹, Yongheon Lee², Hyunwoong Choi¹, Woochan Lee³, and Jaeyoung Park²
¹Seoul National University, Korea, ²Korea Institute of Science and Technology, Korea, ³Incheon National University, Korea
- D1A13 10:36-10:39(3')** **Conceptual Design of Soft Thin Self-sensing Vibrotactile Actuator**
Siho Ryu, Dong-Soo Choi, and Sang-Youn Kim
Korea University of Technology and Education, Korea
- D1A14 10:39-10:42(3')** **A Novel Haptic Interface for the Simulation of Endovascular Interventions**
Hafiz Ramli¹, M. Iqbal Saripan¹, and Fernando Bello²
¹Universiti Putra Malaysia, Malaysia, ²Imperial College London, UK
- D1A15 10:42-10:45(3')** **Collaborating through Magic Pens: Grounded Forces in large, Overlappable Workspaces**
Soheil Kianzad and Karon E. MacLean
University of British Columbia, Canada
- D1A16 10:45-10:48(3')** **A Ball-type Haptic Interface to Enjoy Sports Games**
Takuya Handa, Makiko Azuma, Toshihiro Shimizu, and Satoru Kondo
NHK (Japan Broadcasting Corporation), Japan
- D1A17 10:48-10:51(3')** **Highly Stretchable Optical Strain Sensor for Human Motion Detection**
Jaeyeon Jeong, Taeyeon Kim, and Ki-Uk Kyung
Korea Advanced Institute of Science and Technology, Korea
- D1A18 10:51-10:54(3')** **Improvement of Walking Motivation by Vibratory Display Powered by an Ankle-Worn Generation Device**
Minatsu Sugimoto, Hiroo Iwata, and Hiroya Igarashi
University of Tsukuba, Japan
- D1A19 10:54-10:57(3')** **Deformation and Friction: 3D Haptic Asset Enhancement in E-Commerce for the Visually Impaired**



Hong Jian Wong¹, Kian Meng Yap¹, Wei Kang Kuan¹, Andrew Jian Yue Chan¹, Samuel John Omamalin¹, Alyssa Yen-Lyn Ding¹, Mei Ling Soh¹, and Ahmad Ismat Bin Abdul Rahim²

¹Sunway University, Malaysia, ²Telekom Research & Development Sdn. Bhd., Malaysia

- D1A20 10:57-11:00(3')** **Controlling Robot Vehicle Using Hand-Gesture with Mid-Air Haptic Feedback**
Tao Morisaki, Masahiro Fujiwara, Yasutoshi Makino, and Hiroyuki Shinoda
The University of Tokyo, Japan
- D1A21 11:00-11:03(3')** **Gravity Ball: A Virtual Trackball with Ultrasonic Haptic Feedback**
Jemin Lee and Seokhee Jeon
Kyung Hee University, Korea
- D1A22 11:03-11:06(3')** **Data-driven Multi-modal Haptic Rendering Combining Force, Tactile, and Thermal Feedback**
Seongwon Cho, Hyejin Choi, Sunghwan Shin, and Seungmoon Choi
Pohang University of Science and Technology, Korea
- D1A23 11:06-11:09(3')** **Painting Skill Transfer Through Haptic Channel**
Ahsan Raza, Muhammad Abdullah, Waseem Hassan, Arsen Abdulali, Aishwari Talhan, and Seokhee Jeon
Kyung Hee University, Korea
- D1A24 11:09-11:12(3')** **A Hand Wearable Device Used in Local Curvature Recovery**
Tao Zeng^{1,2} and Shizhen Huang^{1,2}
¹Xiamen University, China ²Shenzhen Research Institute of Xiamen University, China
- D1A25 11:12-11:15(3')** **Signal Generation for Vibrotactile Display by Generative Adversarial Network**
Shotaro Agatsuma¹, Junya Kurogi², Satoshi Saga², Simona Vasilache¹, and Shin Takahashi¹
¹University of Tsukuba, Japan, ²Kumamoto University, Japan
- D1A26 11:15-11:18(3')** **Shape and Stiffness Sensation Feedback with Electro-tactile and Pseudo-Force Presentation When Grasping A Virtual Object**
Vibol Yem¹, Yasushi Ikei¹, and Hiroyuki Kajimoto²
¹Tokyo Metropolitan University, Japan ²The University of Electro-Communications, Japan
- D1A27 11:18-11:21(3')** **Presenting A Pseudo-Force Sensation Using A Clothespin**
Masahiro Miyakami and Hiroyuki Kajimoto
The University of Electro-Communications, Japan
- D1A28 11:21-11:24(3')** **Presentation of Stepping Up and Down by Pneumatic Balloon Shoes Device**
Masato Kobayashi, Yuki Kon, and Hiroyuki Kajimoto
University of Electro-Communications, Japan



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- D1A29 11:24-11:27(3')** **Analysis and Design of Surgical Instruments for The Development of a Shoulder Joint Arthroscopic Surgery Simulator**
Tae-Keun Kim¹, Geon Won¹, Jong-bum Park¹, Saehan Kim¹, Byung-jin Jung¹, Jung-Hoon Hwang¹, Jaeuk Ahn², Minju Song², and Chang Nho Cho³
¹Korea Electronics Technology Institute, Korea, ²Naviworks, Korea, ³Korea Electrotechnology Research Institute, Korea
- D1A30 11:27-11:30(3')** **Development of Virtual Diving Interface by Flutter Kick Motion**
Masaki Orimoto and Masamichi Sakaguchi
Nagoya Institute of Technology, Japan