
- Field: Human-Robot Interaction, Intelligent Robots, Robotic Interfaces, Flexible Transducers
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## Educational background

Ph. D., Mechanical Engineering, Korea Advanced Institute of Science and Technology (KAIST)

MS, Mechanical Engineering, Korea Advanced Institute of Science and Technology (KAIST)

BS, Mechanical Engineering, Pusan National University (PNU)

## Major careers

2018.03 ~ current: Assistant Professor, Hallym University

## Studies & Books

■ International Journals

Knocking and Listening: Learning Mechanical Impulse Response for Understanding Surface Characteristics, Sensors (MDPI, 2020)

Braille Display for Portable Device Using Flip-Latch Structured Electromagnetic Actuator, IEEE Transactions on Haptics (IEEE, 2020), to be published

Design of Virtual Reality Prototyping System and Hand-Held Haptic Controller, International Journal of Computer Theory and Engineering (International Association of Computer Science and Information Technology, 2019)

A Soft and Transparent Visuo-Haptic Interface Pursuing Wearable Devices, IEEE Transactions on Industrial Electronics (IEEE, 2019)

Mechanical Vibration Influences the Perception of Electrovibration, Scientific Reports (Nature Publishing Group, 2018)

High-Pressure Endurable Flexible Tactile Actuator based on Microstructured Dielectric Elastomer, Applied Physics Letters (AMER INST Physics, 2018)

Mechanical and Psychophysical Performance Evaluation of a Haptic Actuator based on Magnetorheological Fluids, Journal of Intelligent Material Systems and Structures (Sage Publications, 2016)

Novel Linear Impact-Resonant Actuator for Mobile Applications, Sensors and Actuators A: Physical (Elsevier Science SA, 2015)

Design, Simulation, and Testing of a Magnetorheological Fluid-based Haptic Actuator for Mobile Applications, Journal of Intelligent Material Systems and Structures (Sage Publications, 2015)