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Overview

I am a graduate student at Haptics and Virtual Reality laboratory (HVR Lab.), POSTECH. I am interested in human-computer interaction (HCI), Haptics, and VR/AR. Above all, I focus on the multi-modal haptic rendering methods and novel sensing techniques.

Education

Pohang University of Science and Technology (POSTECH)

Ph.D Student. Haptics and Virtual Reality Lab.

• Haptics, Humand-Computer Interaction, Advisor: Seungmoon Choi

Université de technologie de Troyes (UTT)

INTERNATIONAL STUDENT EXCHANGE PROGRAM

Pohang University of Science and Technology (POSTECH)

B.S. COMPUTER SCIENCE AND ENGINEERING

• Cum Laude, Advisor: Jonghyeok Lee

Pohang, Korea

Mar. 2018 - Present

Jul. 2016 - Aug. 2016

Pohana, Korea

Mar. 2014 - Feb. 2018

Peer-Reviewed Publications

INTERNATIONAL CONFERENCE

- Chaeyong Park, Jinhyuk Yoon, Seungjae Oh, and Seungmoon Choi. Augmenting Physical Buttons with Vibrotactile Feedback for Programmable Feels. in Proceedings of the Annual ACM Symposium on User Interface Software and Technology (Minneapolis, Minnesota, USA, October 20-23, 2020). UIST'20. ACM (Accepted).
- [C4] Jinsoo Kim, Seungjae Oh, Chaeyong Park, and Seungmoon Choi. Body-Penetrating Tactile Phantom Sensations. in Proceedings of the ACM conference on Human Factors in Computing Systems (Hawai'i, USA, April 25-30, 2020). CHI'20. ACM.
- Chaeyong Park, Jaeyoung Park, Seungjae Oh, and Seungmoon Choi. Realistic Haptic Rendering of Collision Effects Using Multimodal Vibrotactile and Impact Feedback. in Proceedings of the IEEE World Haptics Conference (Tokyo, Japan, July 9-12, 2019). WHC'19. IEEE. **Best Paper Nomination**.
- Seungjae Oh, Gyeore Yun, Chaeyong Park, Jinsoo Kim, and Seungmoon Choi. VibEye: Vibration-Mediated Object Recognition for [C2] Tangible Interactive Applications. in Proceedings of the ACM conference on Human Factors in Computing Systems (Glasgow, Scotland, May 4-9, 2019). CHI'19. ACM.
- Hojun Cha, Amit Bhardwaj, Chaeyong Park, and Seungmoon Choi. Random Forest for Modeling and Rendering of Viscoelastic Deformable Objects. in Lecture Notes in Electrical Engineering (Incheon, Korea, November 11-14, 2018). AsiaHaptics'18. Springer.

DOMESTIC (KOREA)

- Chaeyong Park, Jiwan Lee, Songyi Oh, Seungmoon Choi. Vibration and Impact Haptic Feedback for Realistic Collision Effect. in HCI Korea 2019.
- Inseok Koh, Sungwon Cho, Cheyong Park, Seungmoon Choi. VBand: Implementation of Collaborative VR Band System with Haptic. in HCI Korea 2018

Peer-Reviewed Posters and Demonstration _____

- [D2] **Chaeyong Park**, Jaeyoung Park, Seungjae Oh, and Seungmoon Choi. Realistic Haptic Rendering of Collision Effects Using Multimodal Vibrotactile and Impact Feedback. in *Demonstration of the IEEE World Haptics Conference* (Tokyo, Japan, July 9-12, 2019). WHC'19.
- [D1] Seungjae Oh, **Chaeyong Park**, Jinsoo Kim, Gyeore Yun and Seungmoon Choi. VibEye: A System for Identification of Hand-held Object by Visualizing Vibration Propagation Dynamics. in *Demonstration of the IEEE World Haptics Conference* (Tokyo, Japan, July 9-12, 2019). WHC'19.

Honors & Awards _____

2018	2nd Place , POSTECH Programming Contest (PPC)	POSTECH, Korea
2017	3rd Place, POSTECH Programming Contest (PPC)	POSTECH, Korea
2016	3rd Place, POSTECH Programming Contest (PPC)	POSTECH, Korea
2015	15th place , ACM-International Collegiate Programming Contest Asia-Daejeon Regional Contest (ACM-ICPC)	Daejeon, Korea
2015	5th Place , POSTECH Programming Contest (PPC)	POSTECH, Korea

Talk & Exhibition

Korea Haptic Community Workshop

Seoul, Korea

Seoul National University

Sep. 2019

Demonstration at ISS 2019 tutorials and workshops

Daejeon, Korea

2019 ACM International Conference on Interactive Surfaces and Spaces (ISS 2019)

Nov. 2019

Employment Experience

SAP Labs Korea Seoul, Korea

RESEARCH INTERN Jul. 2017 - Aug. 2017

• development of End-to-end workload and exception analysis-graphs visualization tools

Teaching Experience _____

Teaching Assistant POSTECH

Intro. to Computer SW Systems (Undergraduate)

Fall 2018

Patents___

[P1] Seungmoon Choi, **Chaeyong Park**, and Seungjae Oh . Apparatus and method for rendering tactile to provide multiple sense , *(Filed No. 10-2019-016176, Korea Patent), Patent Pending*

Students Mentored _____

Jaejoon Park, Undergraduate, POSTECH Computer Science and Engineering	2020
Minjae Moon, Undergraduate, POSTECH Computer Science and Engineering (Currently at POSTECH)	2019
Jinhyuk Yoon, Undergraduate, POSTECH Mechanical Engineering (Currently at POSTECH)	2019
Jinsoo Kim, Undergraduate, POSTECH Computer Science and Engineering (Currently at POSTECH)	2019
Eunyoung Hyung , Undergraduate, POSTECH Computer Science and Engineering (Currently at KAIST)	2019

Funded Research Projects

Morphable Haptic Controller for Manipulating VR/AR Contents

Institute for Information and Communications Technology Promotion (IITP)

May. 2020 - present

Principle Study of Multi-sensory Feedback

HYUNDAI NGV May. 2020 - present

Developing Immersive Human Interaction Haptic Feedback system

Ministry of SMEs and Startups

May. 2019 - present

Developing Haptic Device for the Visually-impaired

Korea Institute of Civil Engineering and Building Technology (KICT)

Nov. 2019 - Dec. 2019

HD Haptic Technology for Hyper Reality Contents

Institute for Information and Communications Technology Promotion (IITP)

Mar. 2018 - Dec. 2019

Skills_____

Programming C/C++, Matlab, Python, JAVA, OCaml, LaTeX

Web Django, Node.js

Video Editing Adobe Premier Pro & After Effects, Photoshop, Illustrator