NCA&T
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Dongyun Han

Ph.D. Student, Computer Science, NCA&T

Education

North Carolina Agricultural and Technical State University, NC, USA
Ph.D. in, Computer Engineering, *Jan.' 20 - Present*

Ulsan National Institute of Science and Technology, Ulasn, Republic of Korea
Master in, Computer Engineering, *March' 18 - Feb.' 20 (Expected date to Graduate)*

Ulsan National Institute of Science and Technology, Ulasn, Republic of Korea
Bachelor in, Electrical and Computer Engineering, *March' 10 - February' 18*
including 2 years of military service

Research Interests

- Virtual & Augmented Reality
- Visual Analytics

Publications

- Chunggi Lee, Sanghoon Kim, **Dongyun Han**, Hongjun Yang, Young-Woo Park, Bum Chul Kwon, Sungahn Ko*, GUIComp: A GUI Design Assistant with Real-Time, Multi-Faceted Feedback, ACM Conference on Human Factors in Computing Systems (CHI), 2020 (To Appear)

Research Experience

EduVis: A Visual Exploration System for HistoryEducation
Supervisor : Prof. Sung-Ahn Ko, UNIST *Jan. '19 - Present*

- Aimed to support exploring historical information space by providing a visual interface, EduVis, satisfying history course objective as well as students learning experience.
- Cooperation experience with professors major in pedagogy and history

GUIComp: A GUI Design Assistant with Real-Time, Multi-Faceted Feedback
Supervisor : Prof. Sung-Ahn Ko, UNIST *June '18 - Dec.'19*

- Accepted by ACM CHI 2020 as 3rd writer
- Aimed to support designing Mobile GUI by providing instant feedback on users current design, such as visual complexity scores, viewers attention heatmap, and recommended design models

AirScope: Visualizing Fine Dusts in AR
Supervisor : Prof. Sung-Ahn Ko and Prof. Young-Woo Park, UNIST
Internship, June '17 - Dec. '17

- Earned HCI Korea '18 Creative Award
- Cooperation experience with a design background student
- Built a concept of AR device to show how many fine dusts exist in the air intuitively

Reconstructing Perpendicular Images from from the High-Resolution Brain Images
Supervisor : Prof. Won-Ki Jeong, UNIST *Internship, Nov. '12 - February '13*

- From down-sampled images, which are build from several parallel cross-sectional brain images in high resolution, reconstruct the perpendicular images in clear resolution

Building Diagram for How MERS-CoV is Spreaded
Supervisor : Prof. Chang-Hyeong Lee, UNIST *Internship, March '12 - May '12*

- Poster exhibition at UNIST
- Research project of developing the mathematical infection model for the Middle East Respiratory Syndrome (MERS, a.k.a. camel flu)

Computer Skills

Languages: Python, HTML, JavaScript, CSS, C#
Technologies: Flask, Keras, D3js, Ajax, UNITY, MongoDB, ElasticSearch

Awards & Achievements

- National Scholarship for Graduate student from Korean Government (2018 - 2019)
- Awarded the **Creative Award** for design work presentation at HCI KOREA '18
- Registered patent application named 'Visualization Apparatus for Displaying Fine Dust' as patent number 18-83657
- National Scholarship for Undergraduate student from Korean Government (2010 - 2012, 2nd semester 2015, 1st semester 2017)