

# Eunseok Kim

Ph.D Students  
Supply Chain Management Department  
Rutgers Business School  
1 Washington Park  
Newark, New Jersey, 07102  
ek650@rutgers.edu

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## EDUCATION

- Ph.D Program, Sep. 2018 - Current  
Supply Chain Management Department  
Rutgers Business School  
1 Washington Park  
Newark, New Jersey, 07102  
Academic Advisor: Alok Baveja
- Contracted Researcher (Mandatory Military Service), Dec. 2014 – Dec. 2017  
Culture Technology Research Institute,  
Graduate School of Culture Technology,  
KAIST, Daejeon 34141, Republic of Korea  
Principal Investigator: Woontack Woo
- M.S. in Civil and Environmental Engineering Aug. 2014  
KAIST, Daejeon 34141, Republic of Korea  
Thesis: "A Study of Urban Roadway and Non-commercial Aviation Safety Based on the Risk Factor Analysis"  
Advisor: Dr. Yoonjin Angie Yoon
- KAIST Visiting Student to Kellogg School of Management Jan.&Feb. 2013  
Northwestern University, IL  
Topic: "Large Scale Optimization" (Lagrangian Methods)  
Advisors: Dr. Yoonjin Angie Yoon at KAIST  
Dr. Sunil Chopra and Dr. Sangho Shim at Northwestern University
- B.S. in Physics (Minor Mathematics) Feb. 2012  
KAIST, Daejeon 34141, Republic of Korea

## RESEARCH INTERESTS

AI in Healthcare domain, Integer Programming, Randomize Rounding, Humanitarian Relief Chain, Supply Chain Management of Perishable Items,

## CONFERENCE PUBLICATIONS

1. Sunil Chopra, Ergin Erdem, E. Kim, Sangho Shim, "Column generation approach to the convex recoloring problem on a tree," to appear in *Modeling and Optimization: Theory and Applications (MOPTA, Bethlehem, PA, USA, August 2016)*
2. E. Kim et. al, "Wearable AR Platform for K-Culture Time Machine" International Conference on Distributed, Ambient, and Pervasive Interactions. Springer, Cham (HCII: Human-Computer Interaction International Conference), 2017.
3. E. Kim et. al, "AR Reference Model for K-Culture Time Machine", LNCS (HCII: Human-

Computer Interaction International Conference), 2016.

4. N. Park, E. Kim, J. Lee, W. Woo, "All-in-One Mobile Outdoor Augmented Reality Framework for Cultural Heritage Site", 2016 12th International Conference on Signal-Image Technology & Internet-Based System(IEEE SITIS 2016), pp.484-489, Dec, 2016.
5. E. Kim, J. Kim, W. Woo, "5W1H-Based Metadata Schema for Context-Aware Augmented-Reality Application in Cultural Heritage Domain", Digital Heritage Conference, 2015
6. T. Ha, Y. Kim, E. Kim, K. Kim, S. Lim, S. Hong, J. Kim, S. Kim, J. Kim, W. Woo, "K-Culture Time Machine: Development of Creation and Provision Technology for Time•Space-connected Cultural Contents," LNCS (HCI: Human-Computer Interaction International Conference), 2015.

### WORKING Papers

1. Sunil Chopra, E. Kim, Sangho Shim, An exponential smoothing framework of Bayesian rounding for the big parsimony problem

### PROFICIENCY AND SKILLS

Software: Gurobi (Optimization), Mathematica, Matlab, R

Programming: Java, Python, C#, VBA

Operating Systems: Mac and Windows

Languages: English (2<sup>nd</sup>), Korean (native)

### PATENTS

1. (Korea) METHOD AND SYSTEM FOR PROVIDING CONTENTS SERVICE BASED DYNAMIC DATA BASE (Approved, 2016)
2. (Korea) Augmented/Virtual Reality Service Providing Method Using Multiple Devices and System (Approved, 2017)
3. (Korea) Augmented Human Platform Framework for Enhancing User Capability and System (Pending, 2017)

### INVITED TALKS AND CONFERENCE PRESENTATIONS

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|--|---------------|
| HCI International 2017, Vancouver, Canada,<br>"Wearable AR Platform for K-Culture Time Machine"  | Jul. 13, 2017 |
| HCI International 2016, Toronto, Canada,<br>"AR Reference Model for K-Culture Time Machine"  | Jul. 21, 2016 |
| Digital Heritage 2015, Granada, Spain,<br>"5W1H-Based Metadata Schema for Context-Aware Augmented-Reality Application in Cultural Heritage Domain" | Oct. 2, 2015  |

## FELLOWSHIPS

Rutgers Business School Graduate Fellow - *Opioid Early Warning System Research Project*  
Feb. 2019 - Aug. 2019

## GRANTS

With Woontack Woo (Principal Investigator), Eunseok Kim (Project Manager)

*K-Culture Time Machine: Development of Creation and Provision Technology for Time•Space-connected Cultural Contents*, CT R&D 2014 project of the Ministry of Culture, Sports and Tourism of Korea; \$353,200 per Year (Total 3 years)  
Mar. 2014 - Mar. 2017

Develop augmented reality applications for cultural heritage domain and performed the standardization of augmented reality contents metadata

With Woontack Woo (Principal Investigator), Eunseok Kim (Project Manager)

*Development of Intelligent Interaction Technology Based on Context Awareness and Human Intention Understanding* (IITP, Ministry of Science, ICT and Future Planning, Korea); \$150,110  
Dec. 2016 - Aug. 2016

Wrote the proposal under the supervisory of the principal investigator to develop holistic quantified self and augmented human framework

With Woontack Woo (Principal Investigator), Eunseok Kim (Project Manager)

*Development of infrastructure technology for creation of cultural contents based on spatial data" Project* (CT R&D 2017 project of the Ministry of Culture, Sports and Tourism of Korea); \$317,880 per Year (Total 3 years)  
Jun. 2017 - Dec. 2019

Wrote the proposal under the supervisory of the principal investigator to develop augmented reality applications for cultural contents and performed the standardization of augmented reality contents metadata. Left the project as discharged from my military service.

