

EUNSU LEE

**Curriculum Vitae**

April 2, 2019

Harborside 2, 200 Hudson Street, #234H, Jersey City

1996 Å 1998 Systems Integration Engineer, Division of Milk Production, National Livestock Cooperatives Federation, Seoul, Korea

1990 Å 1992 Ordinance Logician, Army of the Republic of Korea

**PROFESSIONAL LICENSES AND CERTIFICATES**

- 2018 Bloomberg Market Concepts (BMC), Bloomberg Professional Services
- 2012 Å 2022 Certified Supply Chain Professional (CSCP) the Association for Operations Management (APICS) ÅID: 115216, January 1, 2012 (Valid Until January 31, 2022).
- 2011 Å 2021 Certified in Production and Inventory Management (CPIM), the Association for Operations Management ÅID: 113581, September 27, 2011 (Valid Until September 30, 2021).
- 2012 Å 2017 GIS Professional (GISP), the Geographic Information Systems Certification Institute (GISCI)-No.65258, January 2021.
- 2000 Korea Certified Logistics Consultant, endorsed by the Minister of Land, Transport, and Maritime Affairs, Republic of Korea, 2000 ~.
- 1999 National License for Distribution Manager (1st & 2nd class), licensed by the Korea Chamber of Commerce and Industry, endorsed by Minister of Knowledge Economy, Republic of Korea, 1999 ~ .

**INVITED TALKS**

- <sup>3</sup> Transportation/Logistics/Distribution (TLD) middle-skill program WKH1-&8 **Logistics Center**, Jersey City, NJ (February 6 & 13, 2019; 12 hours in total)
- 8UEDQ7UDQVSRUWDWLRQDQG6XSSO&KDLQ6VWHPVLQ**Tianjin Municipal Engineering Design & Research Institute, China**, at the campus of New Jersey City University in Jersey City, NJ (October 26, 2018)
- 6WDWHZLGH)UHLJKW0RGHOLQJWR6XSSRUW(QHUI)DQGSJULFXOWX&KDLQ6VWHPVLQ**Korea Research Institute for Human Settlements (KRIHS)**, City of Sejong Special Self-Governing City, Korea (August 3, 2018)
- 8VLQJ)DWDLQ(FRQRPLF\$QDOVLV2IILFHRI)UHLJKW0DQDJPHQWDQD2SHUDW&KDLQ6VWHPVLQ**Federal Highway Administration (FHWA)**, U.S. Department of Transportation (Number of attendee: 159).
- 2014 7LQHD5HIHUHQFLQJ6VWHPVDQGDQDJPHQW\$SSO&KDLQ6VWHPVLQ**Prairie GIS User Group** (Number of attendee: 19).
- 2014 9HKLFOH5RXWLQJ3UREOHXPVLQJ\$SSO&KDLQ6VWHPVLQ**Prairie GIS User Group** (Number of attendee: 25).

**PUBLICATIONS (\*Corresponding Author)**

**Refereed Papers**

2018 Wadhwa, S.S.\* , Farahmand, K. & Lee, E.S.<sup>3</sup> Site Selection Using Multi-Attribute Decision Analysis in GIS: A Case Study on the Brownfields of Minnesota' *International Journal of Engineering Research & Innovation*, 10(1), 51-56.

2018 Khan, I.U.\* , Lee, E.S.DQ.KDQYHORSLQDEJKDLO\*UDGH&URVVLQ&FGLGHQ&KDLQ6VWHPVLQ**Iran**





- 2014 &KRL-/HH(5REHUWV&5HVKDSLQJ7ULEDO5RDG1HWZRUN8VLQJ3XEOLF,QIRUPDWLRQ´  
*Journal of Geographic Information System* 6(6), 594-604.  
<http://dx.doi.org/10.4236/jgis.2014.66049>
- 2014 .LP&0/HH(6REHDQ,PSRUWHPDQGSQDOVLVLQ(DVW\$VLD.RUHD&KLQDDQG-DSDQ´  
*Management Review: An International Journal* 9(1), 4-24
- 2014 /HH(HVLJQLQJ6HUYLFBH&RYHUDJHDQGHHDVXULQJ\$HFF  
 Small Urban Ambulance Systems´ *Systems*, 2(1), 34-53.  
<http://dx.doi.org/10.3390/systems2010034>
- 2014 /HH(DUDKPDQG.2GXRU3\*7ROOLYHU?Q                    termodal Transportation of Global Supply  
 &KDLQIRUWKH&RQWDLQHULHGHUHLKWW  
*Journal of Economics & Logistics*, 16(1), 33-54
- 2014 Lee, E.\* & Rhim, H. HILQLQJ)DFWRUV\$IIHFWLQJ8VHU?6DWLVIDFWLRQIRU,QIRUPDWLRQ6VWHPV  
 8VLQJ&RQMRLQW\$QDOVLQ´ *Management Research Review*, 37(1), 69-88.  
<http://dx.doi.org/10.1108/MRR-10-2012-0213>
- 2013 Lee, E.\* & )DUDKPDQG.6LPXODWLRQRIRI3RUWLVUXSWLRQDQG7UDQVSRUWDWLRQ5HVRXUFHVR  
 Containerized ImporWV*Management Review: An International Journal* 8(1), 4-37.  
<https://www.informs.org/content/download/277561/2659267/file/MRIJ%208>
- 2013 /HH(DUDKPDQG.6LPXODWLRQRID%DVH6WRFN,QYHQWRUQDQDJHPHQW6VWHP,QWHJUDWHG  
 with Transportation StrategiHVRID/RJLVWLF1HWZBLLN´ *Journal of Civil Engineering and  
 Architecture* 7(5), 633-644. <http://dx.doi.org/10.17265/1934-7359/2013.05.014>
- 2012

2015 %ULGJHODOO5/HH(&RQWHW6HQVLWLYH6ROXWLRQ\$&DVN6WYGR Highway White  
5RFN/DNHDOODV86\$' *Transportation Research Board Annual Meeting Compendium, January*

### Technical Reports

2018 Lee, E. & Rahim-Taleqani, Ali (November 2018) <sup>3</sup> Application of Multi-Agent System with the Large-Scale Agent-Based model for Freight Demand Modeling´ Upper Great Plains Transportation Institute, Fargo, ND: Mountain-Plains Consortium, MPC-18-370.

<https://www.ugpti.org/resources/reports/downloads/mpc18-370.pdf>.

/HH(0DUFK<sup>3</sup> Building a Sustainable GIS Framework for Supporting a Tribal Transportation 3UREOHPNorth Dakota State University - Upper Great Plains Transportation Institute, Fargo: Mountain-Plains Consortium: MPC-15-287.

<https://www.ugpti.org/resources/reports/downloads/mpc15-287.pdf>







**Internally Funded Projects and Grants**

- <sup>3</sup> Routing and scheduling of street sweeping in Jersey City Research (SBR) from the Provost Office of NJCU. \$4500, September 4, 2018 ± August 31, 2019.
- AWarded for Separately Budgeted Research (SBR) from the Provost Office of NJCU. \$4080, September 5, 2017 ± June 30, 2018.
- System with the Large-Scale Agent-Based Model for Freight HPDQGORGHOLQJ awarded from the Mountain Plains Consortium. \$64,249.00, September 30, 2013-September 30, 2017. (Granted: MPC-458 & DTRT13-G-UTC38: Principal Investigator)
- to Mountain-Plains Consortium. \$73,000.00, January 2013 - August 2015. (Granted: MPC-425 & DTRT12-G-UTC08: Principal Investigator)
- Submitted to Mountain Plains Consortium. \$67,000.00, January 1, 2013 - December 31, 2013. (Granted: MPC368&DTRT12-G-UTC08: Co-Principal Investigator)
- Mountain Plains Consortium. \$75,000.00, January 2012-December 2012. (Granted: MPC-387 & DTRT12-G-UTC08: Co-Principal Investigator)
- 2010 North American Freight Flows Conference, Irvine, CA, USA; Association of Transportation and Logistics, Funded by North Dakota State University ± Student Government. \$1,500.00, September 2010.
- 2009 Student Travel Award, Funded by Research, Creative Activities and Technology Transfer, North Dakota State University. \$500.00, May 2009
- 2008 National Association of Korean American Student Leaders, North Dakota State University. \$1,000.00, May 2008

Transportation Research Board 97<sup>th</sup> Annual Meeting, Washington D.C., USA (January 7-11, 2018)  
Peer Reviewed

~~LYH(OHPHO)VRI,PSRUWLQ(SKDOW)HHGVWRFNWEH~~ Division Science Institute Annual Meeting, Washington D.C., USA (November 18-20, 2017)

2015 <sup>3</sup>Context Sensitive Solutions: Case Study of Northwest Highway, White Rock Lake, Dallas, Texas (with Raj Bridgelall), Transportation Research Board 94<sup>th</sup> Annual Meeting, Washington D.C., USA (January 11-15, 2015) <sup>Peer Reviewed</sup>

2014 <sup>3</sup>Designing Service Coverage and Measuring Accessibility and Serviceability INFORMS Annual Meeting, San Francisco, California, USA (November 13-15, 2014)

2014 £HOG)RUHFDVWLQJWR6XVWDLQW

2011 ~~§HJQW% DVH6WRFN,QYHQWRUQDQDJHPHQW6VWHP,QWHJUDWHGZLWK7UDQVSRUWDV~~  
Jarrett Brachman). Transportation Research Forum Annual Conference, Long Beach, California,  
USA (March 2011)

2010 ~~§LPXODWLRQRI%DVH6WRFN,QYHQWRUQDQDJHPHQW6VWHP,QWHJUDWHGZLWK7UDQVSRUWDV~~  
RID/RJLVWLF1HWZRUNZLWK.DPELJDUDKPDQG:LQWHU6LPXODWLRQ&R&BHUmore,  
Maryland, USA (December 2010) Peer Reviewed

2010 ~~§SDWLDOHFRPSRVLWLRQVIRU\*UDYLWDQDQD6KRUWHVW3DWKIRU6HWFYRHYULQJIRU0HDVXULQ~~  
\$FFHVVLELWWR(PHUIHQF6HUYLFH85,6\$ Annual conference for GIS Professionals,  
Orlando, Florida, USA (September 2010) Peer Reviewed

2010 ~~HFRPSRVLQJWKH&XVWRPHU3UHIHUHQFHLQ,QIRUPDWLRQ6VWHPVE8VLQJ&RQMRLQW\$QDOVL~~  
Korean-American Scientists and Engineers (KSEA) ± Young Generation and Professional Forum  
(YGPf), Seattle, Washington, USA (August 2010)

2010 ~~§LVXDOLQJ7UDQVSRUWDWLRQ1HWZRUNLQIURP/L\$5DWD8VLQJ\*HRJUDSKLF,QIRUPDWLRQ~~  
Systems,ZLWK+DUDP.LP.RUHDQ-American Scientists and Engineers (KSEA) ± Young  
Generation and Professional Forum (YGPf), Seattle, Washington, USA (August 2010)

2010 ~~§VWLPDWLQJ7ULSLYHUVLRQEXVLQJ,PSHGQFHLQ)ORRG5HJLRQV\$PHULFDQ\$VVRFLDWLRQRI6~~  
Highways and Transportation Officials (AASHTO): Geospatial Information Systems for  
Transportation (GIS-T) Symposium, Charleston, West Virginia, USA (April 2010)

2009 ~~§LPXODWLRQRI%RRXWH6HOHFWRQIRULVSDWFKLQJD6QRZ5HPRYDO)OHHW7KH,QVWLWXWHIR~~  
Operations Research and the Management Sciences (INFORMS) eairp0B3003611004C>89ETB.55004402( )JTS000

2009

2009

3ORRU -/RDGHGRU3DOOHWLDWLRQ3UREOHP3DSHUVHVVLQRQSUHVHQWHGDWWKH1RUWKHDVW  
Institute (NEDSI), Providence, RI <sup>Peer Reviewed</sup>

6LWH6HOHFWLRQRISLUDQG6SDFHSRUWIRU6SDFH7RXULVP8&LQJXOWDSSURDFKZLWK  
Ibokd, K.). Paper session presented at the meeting of the Northeast Decision Science Institute,  
Springfield, MA. (March 22-25, 2017) <sup>Peer Reviewed</sup>

2016 &DUHHU3DWKLQ6XSSO&KDLQ0DQDJHPHQWDQG7UDQVSRUWDWLRQZLWKU\$PLW0RNDVKL  
Association Council for Business Schools and Programs (ACBSP) Region 1 Fall Conference, New  
York, NY, USA (October 14 & 15, 2016)

H velopment of GIS Multimodal Capacity Model for Northern Tier Freight Corridor,ZLWK  
Subhro Mitra, & Zijian Zheng ). North Dakota GIS Users Conference 2013, Grand Forks, North  
Dakota, USA (September 10-12, 2013)

2012 \*,60RGHOLQJRI&RXQWDQG/RFDO5RDCSupport Agricultural Transt153.54 Tm(s )9t153.54 Tm65s

<sup>3</sup> Leading Discussions with Lightning Talk&&D t New Jersey City University, Jersey City, NJ, USA, May 3, 2017 (Attendee: 15)

2016 <sup>3</sup>Informal Assignment - A Movie in Class´ CXC at New Jersey City University, Jersey City, NJ, USA (Attendee: 15)

## **TEACHING EXPERIENCE**

**Department of Management, School of Bu**

- 2016 Port Jersey Logistics, Cranbury, NJ<sup>3</sup> Shipping Palletized Containers vs. Ocean Containers<sup>´</sup>  
Guiding the project with a team of undergraduate students.
- 2015 North Dakota State University, <sup>3</sup>Improving crossing in campus,<sup>´</sup> Leading Charrette, leading the project team and providing guidance
- 2015 Fargo-Moorhead Ambulance in Fargo, North Dakota, <sup>3</sup>Applying Control Charts for Improving Service Quality,<sup>´</sup> Developing and guiding the project with one undergraduate student.
- 2014 North Dakota Department of Transportation, <sup>3</sup>State Highway Needs Study,<sup>´</sup> Spatial analysis, developed CUBE transportation planning template, and advised research assistants
- 2014 Upper Great Plains Transportation Institute, <sup>3</sup>Grain Storage and Transportation,<sup>´</sup> Developed and led the project with two groups of ten students and one program director from UGPTI
- 2014 North Dakota Legislative Assembly, <sup>3</sup>County and Township Road Infrastructure Investment Needs,<sup>´</sup> Spatial analysis and co-principal investigator
- 2014 North Dakota Department of Transportation, <sup>3</sup>Factors Affecting Severe Highway Crashes in North Dakota,<sup>´</sup> Developing algorithms of calculating horizontal curvatures and guiding graduate research assistant to develop a regression model
- 2012 The 63<sup>rd</sup> North Dakota Legislative Assembly, <sup>3</sup>Study of County and Local Roadway Needs 2011-2013,<sup>´</sup> Spatial analysis and co-principal investigator
- 2012 Karma, Lee, and Jackson (KLJ) in Bismarck, North Dakota, <sup>3</sup>Little Missouri River Crossing Study,<sup>´</sup> Developed and guided the class project with two groups of eight students with three employee from KLJ.
- 2011 Upper Great Plains Transportation Institute in Fargo, North Dakota, <sup>3</sup>Rural Road Investment Needs to Support Agricultural Logistics and Economic Development in North Dakota,
- 2010 Upper Great Plains Transportation Institute in Fargo, North Dakota, <sup>3</sup>Additional Road Investments Needed to Support Oil and Gas Production and Distribution in North Dakota,<sup>´</sup> Created maps for counties using final investment allocation and pavement types
- 2006 North Dakota Department of Transportation, District 8-Fargo, <sup>3</sup>Simulation of Snow Removal Planning,<sup>´</sup> developed simulation modeling and led the project team
- 2004 Swanson Health Products in Fargo, North Dakota, <sup>3</sup>Developing Forecasting Methods for Production Improvement,<sup>´</sup> Developed and led the project with five other graduate students and one employee from Swans Health Product

## **DEPARTMENTAL SERVICE**

### **University-wide Committee / Involvement**

- General Education Assessment (2015-2017) ± Quantitative / Information Technology Literacy
- Sophomore Success Initiative Task Force (2016-2018)
- SBR Review Committee and Task Force (2017 ± 2018) / SBR Steering Committee (2018 - )
- Communication across the Curriculum (CXC) Liaison (Management Department) (2016- 2018)
- Task Force on Separately Budgeted Research (SBR) (AY 2017)
- University Senate
  - Member of the Standing Committee on Instructional Technology (2017 - 2019)
  - Chair of the Standing Committee on Instructional Technology (2018 ± Present)
- MSCHE (Middle States Commission on Higher Education) Self-study Team (2018- Present) 1 0 0 1 43 (2017 -

**School of Business Committee / Involvement**

Search Committee

Member of Search Committee on Financial Technology / Data Science (AY 2018)

Member of Search Committee on Data Science / Financing Department (AY 2017)

Member of Search Committee on Data Science / Financing Department (AY 2016)

Program and Honors Program

Member of Honors Program Committee (2015-Present)

Member of the Ad Hoc Data Science Program Committee (2015-2016)

Student Experiential Learning

**Founding Chair** of the Standing Committee on Economics and Business Research (2017 - 2019)

**Chair** of the Business Student Research Showcase (2016-2017)

Gothic Research Forum



Red River Valley APICS Chapter (RRIV), 2011-2015

Fargo-Moorhead Transportation Club (FMTC), 2013-2015

### **COMPUTER SOFTWARE**

*Statistical Software:* SAS, SPSS, R, & MiniTab

*Database Software:* Microsoft SQL and Access, Oracle, BaaN ERP, & Sybase

*Operating Systems:* Window 2000, Windows-NT, Linux, UNIX-AIX

*Programming Languages:* PowerBuilder, Visual Basic, C++, Fortran, BASIC, & Matlab

*Simulation:* ProModel® for Discrete Event Simulation and FlexSim® for 3D Discrete Event Simulation,

AnyLogic®-Agent-Based Modeling and System Dynamics

*Optimization Software:* SAS Optimization, Lingo® and LINDO®, & Excel Solver

*Freight Demand Modeling:* CUBE 6.x, MOVES2014, HERS-ST

*Business Analytics:* Boomerang®

*Visualization Tool:* Tableau