

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

- ³ 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(QHUJDQGSJULFXOWXKDOARRESEARLF **Institute for Human Settlements (KRIHS)**, City of Sejong Special Self-Governing City, Korea (August 3, 2018)
- 8VLQJ\$)DWDLQ(FRQRPLF\$QDOVLV2IILFHRI)UHLJKW0DQDJPHQWDQD2SHUDW**Highway Administration (FHWA)**, U.S. Department of Transportation (Number of attendee: 159).
- 2014 7LQHD5HIHUHQFLQJ6VWHPVDQGDQDQDJPHQW\$SSO**Prairie GIS User Group** (Number of attendee: 19).
- 2014 9HKLFOH5RXWLQJ3UREOHXPVLQJ\$**Prairie GIS User Group** (Number of attendee: 25).

PUBLICATIONS (*Corresponding Author)

Refereed Papers

2018 Wadhwa, S.S.* , Farahmand, K. & Lee, E.S.³ 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&URVVLOQFFLGHQW**Iran** *Iranian Journal of Geomatics*, 10(1), 1-10



- 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,PSRUWHPDQG\$QDOVLVLQ(DVW\$VLD.RUHD&KLQDDQG-DSDQ´
Management Review: An International Journal 9(1), 4-24
- 2014 /HH(HVLJQLQJ6HUYLFBH&RYHUDJHDQG0HDVXULQJ\$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&RQWDLQHULH&GULH&K&W *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.6LPXODWLRQRID3RUWLVUXSWLRQDQG7UDQVSRUWDWLRQ5HVRXUFHVR
 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/RJLVWLF1HWZB*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) ³ 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(0DUFK³ 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>

2017 Erika Gonzalez received the 1st Place of Presentation Award, the Business Student Research Showcase, School of Business, NJCU, Jersey City, NJ

2012 Nimish Dharmadhikari and Zijian Zheng received the Graduate Student Paper Award (2nd Place), the Urban and Regional Information Systems Association (URISA), Portland, OR, USA

2012 Vu Dang received the Graduate Student Paper Award (4th Place), the Urban and Regional Information Systems Association (URISA), Portland, OR, USA

FUNDS & GRANTS

Externally Funded Projects and Grants

2019 ~~UFGKDVLRQVSDULWVWXGRI-HUVH&LW&WJHUY~~ City of Jersey City, \$10,000.00, April ± December, 2019 (Co-PI)

2019 ~~6PDUW3RUW.RUHD0DULWLP, QVWLWXWH.0,-DQXDU\~~ ± March, 2019 (Principal Investigator)

2015 ³SHRP2 Education Connection: DTFH6115RA00004. Federal Highway Administration (FHWA), U.S. Department of Transportation, \$10,000.00, July 2015 ± August 2015 (Principal Investigator)

2015 ³Agriculture Freight Data Improvement: SD2014-09. Funded by South Dakota Department of Transportation, Pierre, SD. \$45,000.00 of \$175,000.00 (Subcontracted with Cambridge Systematics Inc., February 2015 ± August 2015. (Principal Investigator)

2014 ³North Dakota Highway Needs Study. Funded by North Dakota Department of Transportation, Bismarck, ND. \$123,017.00, 2014-2015. (Co-Principal Investigator)

2013 ³Infrastructure Needs: North Dakota's County, Township, and Tribal Roads and Bridges: 2015-2034. Funded by North Dakota Legislature, Bismarck, ND. \$1,250,000.00, July 2013 ± June 2015. (Co-Principal Investigator)

2013 ~~3PSDFWVWR0RQWDQD6WDWH+LJKZDVGXHWR%DNNHQ2LOFHQRSPHQW~~ Montana Department of Transportation, Helena, MT. \$110,000.00, May 2012 ± February 2013. (Completed in February 2013: Principal Researcher)

2013 ~~*UDLQ)ORZ*,63URWRW\$H0RGH~~ Funded by U.S. Army Corps of Engineers. \$75,000.00, September 2012. (Completed in November 2013: Co-Principal Investigator)

2013 SHRP 2 Symposium, A Transportation Research Board, Herndon, Virginia, USA. \$900.00, October 2013.

Internally Funded Projects and Grants

³ 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.

2014 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)

2013 Submitted to Mountain Plains Consortium. \$67,000.00, January 1, 2013 - December 31, 2013. (Granted: MPC368&DTRT12-G-UTC08: Co-Principal Investigator)

2012 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 (NASKAL) Conference, St. Louis, MO. \$1,000.00, August 2008

Transportation Research Board 97th 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 ³Context Sensitive Solutions: Case Study of Northwest Highway, White Rock Lake, Dallas, Texas (with Raj Bridgelall), Transportation Research Board 94th Annual Meeting, Washington D.C., USA (January 11-15, 2015) ^{Peer Reviewed}

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

2014 ~~EHOG~~RUHFDVWLQJWR6XVWDLQW

3ORRU -/RDGHGRU3DOOHWLDWLRQ3UREOHP3DSHUVHVVLQRQSUHVHQWHGDWWKH1RUWKHVDVW
Institute (NEDSI), Providence, RI ^{Peer Reviewed}

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

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/RFDO5RDCS Support Agricultural Transt153.54 Tm(s)9t153.54 Tm65s

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

2016 ³Informal 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, NJ³ Shipping Palletized Containers vs. Ocean Containers[´]
Guiding the project with a team of undergraduate students.
- 2015 North Dakota State University, ³Improving crossing in campus,[´] Leading Charrette, leading the project team and providing guidance
- 2015 Fargo-Moorhead Ambulance in Fargo, North Dakota, ³Applying Control Charts for Improving Service Quality,[´] Developing and guiding the project with one undergraduate student.
- 2014 North Dakota Department of Transportation, ³State Highway Needs Study,[´] Spatial analysis, developed CUBE transportation planning template, and advised research assistants
- 2014 Upper Great Plains Transportation Institute, ³Grain Storage and Transportation,[´] Developed and led the project with two groups of ten students and one program director from UGPTI
- 2014 North Dakota Legislative Assembly, ³County and Township Road Infrastructure Investment Needs,[´] Spatial analysis and co-principal investigator
- 2014 North Dakota Department of Transportation, ³Factors Affecting Severe Highway Crashes in North Dakota,[´] Developing algorithms of calculating horizontal curvatures and guiding graduate research assistant to develop a regression model
- 2012 The 63rd North Dakota Legislative Assembly, ³Study of County and Local Roadway Needs 2011-2013,[´] Spatial analysis and co-principal investigator
- 2012 Karma, Lee, and Jackson (KLJ) in Bismarck, North Dakota, ³Little Missouri River Crossing Study,[´] 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, ³Rural Road Investment Needs to Support Agricultural Logistics and Economic Development in North Dakota,
- 2010 Upper Great Plains Transportation Institute in Fargo, North Dakota, ³Additional Road Investments Needed to Support Oil and Gas Production and Distribution in North Dakota,[´] Created maps for counties using final investment allocation and pavement types
- 2006 North Dakota Department of Transportation, District 8-Fargo, ³Simulation of Snow Removal Planning,[´] developed simulation modeling and led the project team
- 2004 Swanson Health Products in Fargo, North Dakota, ³Developing Forecasting Methods for Production Improvement,[´] 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