

CURRICULUM VITAE

Name Kang-Soo KIM
Phone + 82-2-958-4175
E-mail kskim@kdi.re.kr
Research Interests Transport Planning, Infrastructure Development,
Public-Private Partnership, Decision Making under
Uncertainty



Education / Positions

- 1993. 3 ~1995. 2 MSc in Urban Planning, Seoul National University
- 1995. 5 ~1998. 12 Ph.D. in Transport Studies, University of Leeds
- 1999. 1 ~ 2000. 1 Research Fellow, Napier University
- 2000. 3 ~ 2006. 3 Research Fellow, Korea Transport Institute (KOTI)
- 2004. 5 ~ 2004. 9 Director of Center for Korea Transport Database, KOTI
- 2005. 3 ~ 2006. 2 Director of Center for Transport Infrastructure Investment, KOTI
- 2009. 2 ~ 2012. 6 Director of PPP Division, Public and Private Infrastructure Investment Management Center (PIAMC), KDI
- 2012. 7 ~ 2013. 6 Visiting Research Scholar, University of California at Davis
- 2013. 7 ~ 2016. 3 Executive Director, PIMAC, KDI
- 2016. 3 ~ 2018. 6 Director and Vice President, Department of Land and Infrastructure Policy, KDI
- 2018. 6~ present Senior Research Fellow, Department of Public Finance and Social Policy, KDI
- 2013. 7 ~ present Adjunct Professor, Korea Development Institute School (KIDS)

Research Affiliations

- 2002. 6 ~ present Permanent Member, Korea Planning Association
- 2003. 3 ~ present Permanent Member, Korean Society of Transportation
- 2006. 3 ~2009. 2 Member, Editorial Board, Journal of Korean Society of Transportation
- 2008. 3 ~2010. 3 Director, Korean Society of Transportation
- 2015. 4 ~ 2019. 4 Permanent Member, Korean Society of Public Private Partnership
- 2015. 5 ~ 2019. 4 Vice President, Korean Society of Public Private Partnership

Awards and Honors

- 1993. 2 Distinguished Graduation Thesis, Award for “Defective Villages and Redevelopment”, University of Hanyang
- 1993. 10 Award for Best Paper, “Way Forward on Developing Intelligent Highway, co-authored with Hye-Jin Cho, Korea Highway Corporation
- 1995. 2 Award for Best Master thesis, “A study on the Parking Choice through Analyzing Individual Behavior”, Graduate School of Environmental Studies, Seoul National University
- 1995. 9 The First Beneficiary of the Ministry of Education of Korea-Funded Study abroad program for Transport Research
- 2003. 12 Researcher of the Year, Korea Transport Institute
- 2008. 12 Researcher of the Year, Korea Development Institute
- 2012. 1 Award Decoration from the Mongolian government for the PPP knowledge sharing

Papers, Books(Chapters) and Working Papers (in English)

- Kim, K.S. (1998), *Incorporating Heteroscedasticity within Individual and between Individuals to Overcome Repeated Measurement Problems*, In: Mathematics in Transport Planning and Control ed. J.D. Griffiths, Oxford University, pp.207~216.
- Kim, K.S. (1998), *Application of Random Coefficient Logit Model*, proceedings 26th European Transport Forum (PTRC), held at Loughborough University, U.K., Transport Planning Methods II, PTRC Education and Research Services Ltd., pp.31~42.
- Kim, K.S. (1998), *Analyzing Error in SP Data Modeling*, presented at the 8th World Conference on Transport Research (WCTR) Conference, held at Antwerp, Belgium.
- Maher, M.J., Hughes, P.C. and Kim, K.S. (1999), *New Algorithms for the Solution of the Stochastic User Equilibrium Assignment Problem with Elastic Demand*, proceedings 14th International Symposium on Transportation and Traffic Theory (ISTTT), held at Jerusalem, Israel, pp.265~286.
- Cho, H.J. and Kim, K.S. (1999), *Combined Analysis of Heteroscedasticity and correlation of repeated observation in SP data*, presented for the 27th European Transport Conference (PTRC), held at Robinson College, Cambridge, UK. pp.319~330.
- Kim, K.S., Maher, M.J. and Kim, S.C. (2001), *Stochastic User Equilibrium Assignment Problem with Variable Demand*, presented at the 9th World Conference on Transport Research (WCTR) Conference, held at Seoul, Korea.
- Cho, H.J. and Kim, K.S. (2002), *Analysis of Heteroscedasticity and correlation of repeated observation in stated preference data*, KSCE Journal of Civil Engineering, Vol.6, No.2, pp.161~169
- Kim, K.S. (2002), *Random Inherent Heterogeneity Logit Model for Stated Preference Freight Mode Choice*, Journal of Korean Society of Transportation, Vol.20, No.3, pp.83~92.
- Kim, K.S., Maher, M.J. (2002), *Stochastic User Equilibrium Assignment Problem with Variable Demand*, Selected Proceedings of the 9th WCTR.
- Cho, H.J. and Kim, K.S. (2003), *Effect of uncertain information on drivers' decision making (Application of Proposed Theory)*, Journal of Korean Society of Transportation, Vol.21, No.1, pp.77~90.
- Kim, K.S. and Cho, H.J. (2005), *The Variation of Value in Freight Transportation in Korea*, Selected Proceedings of the First International Conference on Transportation Logistics
- Cho, H, J and Kim, K.S. (2005), *Development of Hazardous Road Index and ITS Application*, Journal of the Eastern Asia Society for Transportation Studies, Vol.6.
- Kim, K.S. and Cho, H.J. (2005), *The Variation of Value in Freight Transportation in Korea*, Selected Proceedings of the First International Conference on Transportation Logistics
- Kim, K.S. and Yu, J. W. (2007), *Implementation System and Analysis Methodologies of the Preliminary Studies*, Proceedings of the Improving Public Investment Management for Large-Scale Government Projects: Focusing on the Feasibility Studies, Korea Development Institute
- Kim, K.S. (2009), *Improvement on Legal and Procedural PPP System in Cambodia*, Korea Development Institute, in 2009 Knowledge Sharing Program with Cambodia, Ministry of Strategy and Finance and Korea Development Institute
- Kim, K.S (2010), *Improvement in Legal and Procedural PPP System in Mongolia*, Korea

Development Institute in 2010 Knowledge Sharing Program with Mongolia, Ministry of Strategy and Finance and Korea Development Institute

- Kim, K.S (2011), *Developing Financial Model for Road PPP Project in Mongolia*, Korea Development Institute, in 2011 Knowledge Sharing Program with Mongolia, Ministry of Strategy and Finance and Korea Development Institute
- Kim, K.S (2014, edited), *The Preliminary Feasibility Study in South Korea: An Assessment and International Comparison for Future Development*, Korea Development Institute
- Kim, K.S (2015, edited), *Strengthening the Management of Public Investment - Korean and International Experiences*, Korea Development Institute
- Kim, K.S (2015), *15 Years Since the Introduction of the Preliminary Feasibility Study(PFS), Achievements and Challenges*, Korea Development Institute
- Kim, K.S et al (2015), *Public Private Partnership in Korea, Philippines and Indonesia Compared*, Korea Development Institute
- Kim, K.S et al (2016), *2015/2016 Knowledge Sharing Program with Kuwait: Evaluation of Public Investment Management System (PIMS) in Kuwait*, Ministry of Strategy and Finance and Korea Development Institute
- Kim, K.S (2017), *Development of National DB center for Transport Planning*, in 2016/2017 Knowledge Sharing Program with Costa Rica: Policy Consultation for Economic Development of Costa Rica: Focusing on Science and Technology Human Resources, National Transport System and Healthcare Industry, Ministry of Strategy and Finance and Korea Development Institute
- Kim, K.S (2018), *Strengthening of Public Investment Management System (PIMs) in Ukraine*, in 2017/2018 Knowledge Sharing Program with Ukraine: Mechanisms and Tools of Stimulating National and Foreign Direct Investments, Ministry of Economy and Finance and Korea Development Institute
- Kim, K.S (2018), *Korean Experiences in Public Investment Management and Public Private Partnerships*, Consulting report on Sharing the Korean Experience with Public Investment Management and Public Private Partnerships for São Tomé and Príncipe (STP), World Bank
- Kim, K.S et al (2019), *Public-Private Partnership Systems in the Republic of Korea, the Philippines and Indonesia: A Comparative Review*, in *Realizing the Potential of Public-Private Partnerships to Advance Asia's Infrastructure Development, Compared*, Korea Development Institute and Asian Development Bank, pp.287~322
- Kim, K.S, Cho, H.J, Yook, D.H (2019), *Financing for a Sustainable PPP Development: Valuation of the Contractual Rights under Exercise Conditions for an Urban Railway PPP Project in Korea*, Sustainability 2019, 11(6), 1573

Selected Papers, Books (Chapters) and Working Papers (in Korean)

- Kim, K.S. (2002), *Valuation of Air Pollution related to Road Traffic in Seoul*, Journal of Korean Society of Transportation, Vol.20, No.4, pp.39~48.
- Kim, K.S. (2002), *Valuation of Noise in Seoul*, Journal of Korea Planners Association, Vol.37, No.4, pp.217~227
- Kim, K.S. and Cho, H.J. (2003), *Development of the RP and SP Combined Using Error Component Method*, Journal of Korean Society of Transportation, Vol. 21, No.2, pp.119~130.
- Yang, I.S., Noh, J.H. and Kim, K.S. (2003), *Development and Application of the Heteroscedastic Logit Model*, Journal of Korean Society of Transportation, Vol. 21, No.4, pp.57~66.
- Kim, E.K., Noh, J.H. and Kim, K.S. (2003), *A study on the PGI (Parking Guidance and Information systems) effect using the simulation method*, Journal of Korean Society of Transportation, Vol. 21, No.5, pp.19~29.
- Kim, H.G., Kim, K.S. and Lee, S.M. (2004), *Design and Implementation of Travel Mode Choice Model using the Bayesian Networks of Data Mining*, Journal of Korean Society of Transportation, Vol. 22, No.2, pp.77~86.
- Cho, H.J. and Kim, K.S. (2004), *A study on ramp and flushed curb standards for the disabled in Korea*, KSCE Journal of Civil Engineering, Vol.24, No.3D, pp.381~387.
- Kim, K.S. and Cho, H.J. (2004), *Development of Scaled Explosion Logit Model Considering Reliability of Ranking Data*, Journal of Korean Society of Transportation, Vol. 22, No.6, pp.197~206.
- Kim, H.G., Lee, S.M. and Kim, K.S. (2004), *Design and Implementation of Trip Generation Model Using the Bayesian Networks*, Journal of Korean Society of Transportation, Vol. 22, No.7, pp.79~90.
- Kim, I.G., Kim, K.S. and Kim, H.C. (2005), *Model Specification and Estimation Method for Traveler's Mode Choice Behavior in Pusan Metropolitan Area*, Journal of Korean Society of Transportation, Vol. 23, No.3, pp.7~19.
- Kim, K.S. Oh, D.G., and Chung, S.B. (2005), *Development of Method to Define Influence Area using Travel Time on the Feasibility Study*, Journal of Korean Society of Transportation, Vol. 23, No.8, pp.139~145.
- Kim, K.S. EUK, D.H., and Cho, H.J. (2005), *Equilibrium between public and private transports in Seoul Metropolitan area*, Journal of Korean Society of Transportation, Vol. 23, No.8, pp.43~51.
- Kim, K.S. and Cho, H.J. (2006), *A Study on the Weighting and Expansion of Sample O-D Freight Data, focusing on the Seoul Metropolitan area*, KSCE Journal of Civil Engineering, Vol.26, No.5D, pp.755~361
- Kim, K.S. (2006), *Road Supply and Generated Traffic*, KDI Journal of Economic Policy, Vol.28, No.2, pp.181~198.
- Kim, K.S. and Cho, H.J. (2006), *SP Design and Analysis Methodologies*, Boseunggak, ISBN 89-7839-616-X
- Cho, H.J. and Kim, K.S. (2007), *Analysis of Accessibility Patterns for Commuting Trips in Seoul Metropolitan Area*, Journal of the Korean Geographical Society, Vol.42, No.6, pp.914~929

- Kim, K.S. et al (2007) *Standard Guidelines for Preliminary Feasibility Studies*, 5th edition, Korea Development Institute
- Kim, K.S. and Cho, H.J. (2008), *Risk Analysis of Traffic Demand Forecasting*, Journal of Korea Planners Association, Vol.43, No.2, pp.179~192
- Kim, K.S. and Kim, J.S. and Cho, H.J. (2009), *Study on the Risk of Estimated Traffic Link Flow and Estimation Interval Link Flow using National Transport Data Base*, Journal of Korea Planners Association, Vol.27, No.1, pp.117~127
- Kim, K.S., CHO, S.B. and Yang, I.S. (2012), *Valuing the Risks Created by Road Transport Demand Forecasting in PPP Projects*, Korea Development Institute
- Kim, K.S., Cho, S.B and Yang, I, S. (2013), *Valuing the Risks Created by Road Transport Demand Forecasting in PPP Projects*, KDI Journal of Economic Policy, Vol. 35, No. 4
- Kim, K.S and Kim, G.M. (2014), *A Study on Inaccuracy in Urban Railway Ridership Estimation*, Journal of Korean Society of Transportation, Vol. 32, No.6, pp.589~599.
- Kim, K.S. and Moon, W.S. (2017), *Enhancing economic growth and productivity through efficient public infrastructure management in Public Investment for Enhancing Productivity*, Korea Development Institute ISBN 979-11-5932-326-3.
- Kim, K.S. (2017), *Decision Making under Deep Uncertainty: Focusing on Transport Planning and Feasibility Studies*, Korea Development Institute
- Kim, K.S. (2018), *Analysis on the Determinants of the IRR of Korean PPP Projects*, Korea Development Institute
- Kim, K.S. (2019), *A study on the terms and conditions for BTO_rs under the Deep Uncertainty in Operating Revenue*, Korea Development Institute