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소속학부(과)	산업공학부	전공	· Multiobjective Nonlinear Control · Data Mining
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휴대전화		및	· 2010 Texas A&M University(Ph.D-시스템공학) · 2010~2011 LG전자 SCM부문 (차장) · 2010~2009 Texas A&M Univ. 강의전담교수
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연구(강의)
분야

- Artificial Intelligence
- Nonlinear Control and Optimization
- Data Mining
- Virtual Engineering
- Cooperative System Design
- Virtual Intelligence

연구개발
과제

- "Modeling and Evaluation of Nano-Scale Ceramic Crack", Samsung Electronics, 02/2014~06/2014
- "Cooling System using Thermoelectric Diode and Phase Change Material", Ministry of Knowledge and Economy, Korea Government, 11/2012~10/2013
- "Strategic KPI and Process Modelling of Supply Chain Management System for Middle and Small Size Companies", Kumi City, 03/2012~08/2012,
- "Research Investigation for Supporting Globalization of Solar Industries in Economic Region ", Leading Industry Development for Economic Region, 04/2012~05/2012,
- "Consulting on Management Assessment for Supply Chain Management Processes and Manufacturing Execution Systems", Samsung Fiberoptics, 10/2011~02/2012,
- "Improving Texas Rural Community Healthcare Through HIT Implementation", Texas A&M Health Science Center, 09/2007~03/2009,
- "Generating a Stochastic Optimal Schedule from Historical Data for Efficient Management of Railroad Maintenance Activities", Association of American Railroads, 09/2007~03/2009,
- "Intelligent Simulation Lifecycle Management Framework using Meta Model and Adaptive Control", Kumoh National Institute of Technology, 10/2012~09/2013,
- "Android Programming and Mobile UX Design", Kumoh National Institute of Technology, 09/2012~01/2013,
- "Ontology Extraction for Knowledge Embedded in Large Scale Virtual Environment", Kumoh National Institute of Technology, 09/2011~09/2012,
- "Consulting on Investment Portfolio Strategy of University Fund", Kumoh National Institute of Technology, 02/2012~03/2012,
- "Railroad Bearing Maintenance Scheduling Project", Transportation Technology Center, Texas, 2007.
- "Establishment of Master Plan in Digital Camera Mold Division", Samsung, 2006.
- "Development of 3D Design Integration System and BOM managing system", Samsung SDI, 2005.

주요논문
연구실적

- “Development of Technical Data Online Support 3D Design Integration System and BOM managing system”, Samsung Electronics, 2004
- “Establishment of Global Polices and Procedures Manual System (GPPM)”, Samsung Electronics, 2003.
- “Development of Supercomputer Interface for Multi-CADs Users”, Samsung Advanced Institute of Technology, 2002.

【주요논문】

- Taesung Kim, Saejae Lee and Hyunsoo Lee, “Topology Modeling and Dynamic Reconstruction for NP-Complete Complexity Problem Embedded Supply Chain Network”, International Journal of Logistics and SCM Systems, Vol. 7, No. 1, September, 2013, pp.39-46.
- Heedong Hong and HyunSoo Lee, “Modeling and Evaluation Framework of Dynamic Human Postures Data using T2FN”, International Journal of Advancements in Computing Technology, Vol. 5, No. 11, July, 2013, pp.497-505.
- HyunSoo Lee and Amarnath Banerjee, “An Executable Modelling and Simulation Framework for NP-Complete Problems and Different Forms of Uncertainties”, International Journal of Services Operations and Informatics, Vol. 7, No. 1, August, 2012, pp.1-17.
- Hyunsoo Lee and Sangho Kim, “A Framework for Designing Closed-loop Hand Gesture Interface Incorporating Compatibility Between Human and Monocular Device”, Journal of the Ergonomics Society of Korea, Vol. 31, No. 4, August 2012, pp 533-540.
- GooSang Jung, TaeSung Kim and HyunSoo Lee, “A Study on the Influence of Consultant Proactive Personality and Benevolence on Trust and Innovative Performance”, Journal of Digital Policy and Management, Vol. 10, No. 2, March 2012, pp. 83-92.
- HyunSoo Lee and Amarnath Banerjee, “Executable Design and Control Framework Using Reconfigurable Manufacturing Holons and Its Evolution Algorithm”, International Journal of Production Research, Vol. 49, No. 5, March, 2011, pp. 1405-1423.
- Hyun Soo Lee and Amarnath Banerjee, “A self-configurable large-scale virtual manufacturing environment for collaborative designers”, Virtual Reality, Vol. 15, No. 1, March, 2011, pp.21-40.
- Hyun Soo Lee, Jonghyun Kim and Amarnath Banerjee, “Collaborative Intelligent CAD Framework Incorporating Design History Tracking Algorithm”, Computer-Aided Design, Vol. 42, No. 12, December, 2010, pp. 1125-1142.
- Hyun Soo Lee, Josie R. Williams, Kathy Mechler, Tracy L. Adams, R. Kim Clay, Tammy Wilemon, Robert Morrow and Amarnath Banerjee, “Streamlining Physician Peer Review Process and Capacity Prediction Using Simulation”, International Journal of Collaborative Enterprise, Vol. 1, No. 3/4, 2010, pp. 273-292.
- Hyun Soo Lee, Bikram Sharda and Amarnath Banerjee, “A Closed-loop Control Architecture for CAM Accounting for Shop Floor Uncertainties”, Journal of Manufacturing Systems, Vol. 27, No. 4, 2008, pp. 166-175.
- S.H. Suh, D.H. Chung, B.E. Lee, J.H. Cho, S.U. Cheon, H.D. Hong and H.S. Lee, “Developing an Integrated STEP-Compliant CNC Prototype”, Journal of Manufacturing Systems, Vol. 21, No. 5, 2002, pp. 350-362.
- DooYul Kim, TaeSung Kim and HyunSu Lee, “A Study on the Moderate Effecting of Client's Organizational Character on Consulting Quality and Business Performance”, Journal of Digital Policy and Management, Vol. 9, No. 6, December, 2011, pp. 243-253.
- Y.H. Seo, S.H. Seo, D.Y. Kim, and H.S. Lee, “Implementation of Web-based CAM system using

- VRML and CORBA”, Korea Society of CAD/CAM, Vol. 8, No. 1, March 2003, pp. 35–40.
- K.S. Jeong, S.H. Suh, Y.H. Seo and Lee, H.S, “Implementation of Web-based Virtual Machining Tools”, Korea Society of CAD/CAM, Vol. 6, No. 4, March 2001, pp. 236–243.

【특허등록】

- Taesung Kim, Sungho Jang, Jonghwan Lee and and Hyunsoo Lee, “Fever Alleviating Patch”, Korea Patent, No 10–2012–0047704, 2014. 02. 04

【주요저서】

- Taesung Kim and Hyunsoo Lee, “Operations Management Information Systems”, ISBN 978–89–98338–51–0 (93200), ChaosBook, Seoul, Korea, March, 2014
- Hyun Soo Lee, “Android Programming and Mobile UX Design”, ISBN 978–89–6220–168–0 (93560), Bomungak, Seoul, Korea, February, 2013
- Hyun Soo Lee and Amarnath Banerjee, “Design, Simulation and Dynamic Control of Large Scale Manufacturing Process with Different Forms of Uncertainties”, Contemporary Issues in System Science and Engineering, Mengchu Zhou,(Eds.), IEEE Press Series on Systems Science and Engineering, Hoboken, NY, 2013 (Bookchapter)