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## Summary

**Jae Kyu Lee** is the HHI Chair Professor in the College of Business, and currently serves as the head of Graduate School of Green Growth and the Director of EEWS (Energy, Environment, Water, and Sustainability Initiative) Research Center (former EEWS Initiative) at KAIST (Korea Advanced Institute of Science and Technology). He has been a Professor of Management Information Systems and Electronic Commerce at KAIST since 1985, and served as Dean of the College of Business during 2006-7. He is currently the President-Elect and Fellow of Association for Information systems, the global organization of 4,000 IS researchers.

He received a B.A. in Industrial Engineering from Seoul National University (1973), a M.S. in Industrial Engineering from the KAIST (1975) and a Ph.D. in Operations and Information Systems from the Wharton School, University of Pennsylvania (1985). He was a visiting professor of the Wharton School at the University of Pennsylvania (2000), University of Texas at Austin (1995), Carnegie-Mellon University (1989), and City University of Hong Kong (2001).

He was the founding editor-in-chief of the journal, Electronic Commerce Research and Applications (Elsevier, SSCI and SCIE Accredited), and was the founding chair of the International Conference on Electronic Commerce. During 2005-6, he was appointed as Associate Dean of Faculty and Research, School of Information Systems at Singapore Management University.

He was chairman of key international conferences such as the Doctoral Consortium Chair of the International Conference on Information Systems (2011), International Conference on Electronic Commerce (ICEC 1998, and ICEC 2000), Pacific Asia Conference on Information Systems (2001, 2006), and the 3rd World Congress on Experts Systems (1996), as well as many other international conferences. He was president of academic societies such as Korea Society of Management Information Systems and Korea Society of Intelligent Information Systems. He has served for the program committee of numerous international conferences in information systems and intelligent systems.

He authored four English books and seven Korean books with many editions in the area of Electronic Commerce, Information System, and Intelligent Systems, including the world best seller, Electronic Commerce: A Managerial Perspective (2012, 2010, 2008, 2006, 2004, 2002, 2000, Prentice Hall, co-authored with Efraim Turban), Artificial Intelligence in Finance and Investing (Irwin), Management Information Systems, and Intelligent Systems. He published about 60 international journal papers (aside from 33 Korean journal papers) in leading

international journals such as Decision Support Systems, Management Science, Communications of ACM, International Journal of Electronic Commerce, Expert System with Applications, European Journal of Information Systems, and many others. He presented many keynote speeches and proceeding papers in major international conferences and workshops such as ICIS, PACIS, PRICAI, and ICEC.

He received best paper awards nine times from the major conferences such as the Hawaii International Conference on System Sciences (Internet and Digital Economy Track in 1997) and Korean national conferences of Management Information Systems, Intelligent Systems, and Management Science. He received the most honorable award in Korea, Maekyung Economist Prize (2004), which is given to the best researcher in Economics and Management. He also received a national decoration from the Korea Government for his contribution to the development of the IT industry. KAIST has awarded him three times for Outstanding Academic Achievement (1998), International Academic Collaboration (2009), and Contribution for the Development of KAIST (1993).

Currently, he serves as associate editor of leading international journals such as Decision Support Systems, International Journal of Electronic Commerce, Organizational Computing and Electronic Commerce and Journal of Global Information Management. He is also honorary advisor of the journal, Electronic Commerce Research & Applications and Pacific Asia Journal of AIS.

His research themes evolved to IT Management to Green Business. His primary research topics in IT Management is Axiomatic Theory in IS Research, Semantic web in electronic commerce, unified modeling with AI and optimization, and intelligent scheduling systems for various manufacturing industries. He has conducted 47 granted projects on eCommerce strategies for financial sectors, SCM and eProcurement Systems, case based project management systems, intelligent scheduling systems for ship building, power generation, and refinery. He currently cultivates research on the Smart Grid and Green Business Strategies

## Education

- **Sept.1981 – May 1985**  
Ph.D. in Management Information Systems from the Department of Decision Sciences, The Wharton School, University of Pennsylvania, Philadelphia, Pennsylvania, USA
- **Jan.1980 - Aug.1981**  
Ph.D. Candidate, Management Science Major, Clemson University, Clemson, South Carolina, USA
- **Sept.1973 - Aug.1975**  
M.S. in Industrial Engineering, Korea Advanced Institute of Science and Technology, Seoul, Korea
- **Mar.1969 - Feb.1973**  
B.S. in Industrial Engineering, Seoul National University, Seoul, Korea

## Professorship

- **September. 2013- Present, Director, HHI-KAIST EEWS Center**
- **May 1985 - Present, Chair Professor**  
Assistant professor; associate professor; and professor (since 1994) in the Graduate School of Management at Korea Advanced Institute of Science and Technology, Seoul, Korea
- **July 2007 – Present, Director, of EEWS Research Center**
- **Sept. 2006 - June 2007, Dean of the College of Business, KAIST**
- **July 2005 - Aug. 2006, Associate Dean and Professor at School of Information Systems in Singapore Management University**
- **Feb. 2001- Aug. 2001, Visiting Professor**  
Department of Information Systems, City University of Hong Kong; Have taught Electronic Commerce
- **Sept. 2000 - Jan. 2001, Visiting Professor**  
Department of Operations and Information Systems, The Wharton School, University of Pennsylvania
- **Jan. 1995 - Aug. 1995, Visiting Professor**  
Center for Research in Electronic Commerce, University of Texas, Austin
- **Sept. 1989 - Aug. 1990, Visiting Scholar**  
Center for Integrated Manufacturing Decision Systems, Robotics Institute, Carnegie Mellon University, Pittsburgh
- **Summer 1990, Distinguished Visiting Professor**  
Eastern Illinois University; Have taught AI-based Decision Support
- **Summer 1982 - May 1985, Instructor**  
Department of Decision Sciences, Instructor of MIS, The Wharton School, University of Pennsylvania, Philadelphia
- **Mar. 1977 - Dec. 1980 , Lecturer**

Department of Computer Science/Industrial Engineering, Keimyung University,  
Taegu, Korea

## **Award**

- Best Paper Award at the KSCM Full Conference, (2011. 11.)
- Best Paper Award at the Korea MIS Conference, IT Outsourcing Case, November 25, 2005
- Best Paper Award at the Korea Intelligent Systems Conference, “Rule Acquisition using Ontology knowledge”, November 18, 2005
- The 34th Maekyung Economist at Maeil Business Daily Newspaper (Korea; March 26, 2004)
- Best Paper Award at the Korean Operations Research and Management Science Society (Korea; Dec. 2003)
- Best Paper Award at the Korea Intelligent Systems Conference 2002, "eXtensible Rule Markup Language (XRML) Design Principles and Application" (Korea; May 2002)
- Best Paper Award at the Korea Intelligent Systems Conference 2002, "Customized Configuration with Template and Options" (Korea; May 2002)
- Best Paper Award at the Korea MIS Conference 1999, "Adaptive Modeling System" (Korea; June 1999)
- Best Paper Award at the Korea MIS Conference 1997, "An Effective Software Effort Estimation Model; Neural Network Approach using Optimal Similar Cases" (Korea; July 1997)
- Best Paper Award at the Hawaii International Conference on System Science, in the track of *Internet and Digital Economy*, "Intelligent Agent Based Contract Process in Electronic Commerce: UNIK-AGENT Approach (Hawaii, USA; Jan. 1997)
- Awarded Honorable Mention Prize in 1985 DSI (Decision Sciences Institute) Doctoral Dissertation Competition. The title of dissertation is "Solving Semi-Structured Problems and Design of Decision Support Systems: Post-Model Analysis Approach"

## **National Awards**

- Presidential Citation on Green Growth Policy Drive (February 19, 2013)
- Ministry of Education, Science and Technology Minister Citation on Institution Assessment 2012 (February 22, 2013)
- AIS Fellow Award, Association of Information Systems, U.S.A., 2012, 12
- National Decoration for the contribution to the IT Industry Development, December, 2004

- Presidential Award for the contribution to the IT Industry Development (Korea; June 2002)

### **KAIST Awards**

- Outstanding International Academic Collaboration Award of KAIST (Feb. 2009)
- Outstanding Academic Achievement Award of KAIST (Korea; Jan. 1998)
- Contribution for Progression of KAIST (Feb 1993)

### **Editorial Board of International Academic Journals**

- Editor-In-Chief, Electronic Commerce Research and Applications (Elsevier), 2001 - 2005
- Associate Editor, Journal of Global Information Management (International Resource Management Association), 2000 - Present
- Associate Editor, Journal of Web Semantics, 2003- 2005
- Associate Editor, International Journal of Electronic Commerce (USA), 1997 - Present
- Associate Editor, Decision Support Systems (Elsevier), 1996 - Present
- Associate Editor, Organizational Computing and Electronic Commerce (USA), 1996 - Present
- Associate Editor, Expert Systems with Applications (Pergamon Press), 1995 - Present
- Intelligent Systems in Accounting, Finance, and Management (USA), 1997- Present
- Associate Editor, Electronic Market (Switzerland), 1998 – 2006

### **International Conference Chairs**

- Chair, Doctoral Consortium, International Conference on Information Systems, Dec 2011, Shanghai
- Chair, EEWS 2009 Workshop, KAIST, September 22-23, 2009, Korea
- Chair, EEWS 2008 Workshop, KAIST, September 9, 2008, Korea
- Co-chair, The 10th Pacific Asia Conference on Information Systems, Kular Lumpur, Malaysia, July 2006
- Co-chair, The International Conference on Electronic Commerce 2001, Vienna, Austria, Current.
- Co-chair, Pacific Asia Conference on Electronic Commerce 2001, Seoul, Korea
- Chair, The International Conference on Electronic Commerce (ICEC 2000) 2000, Seoul, Korea
- Chair, E-Business Strategy, 1999, Seoul, Korea
- Chair, Cyber-payment Conference 1999, Hong Kong

- Chair, Cyber-payment Conference 1998, Seoul, Korea
- Chair, The International Conference on Electronic Commerce (ICEC'98) 1998, Korea
- Chair, The Third World Congress on Expert Systems, 1996, Seoul, Korea
- Co-Chair, 95 Pacific-Asia Conference on Expert Systems, May, 1995, China
- Co-Chair, 94 Japan/Korea Joint Conference on Expert Systems, Tokyo, Japan
- Regional Chair, The Second World Congress on Expert System, 1993
- Chair, '93 Korea/Japan Joint Conference on Expert Systems, 1993
- Regional Chair, The First World Congress on Expert Systems, Dec. 1991

### **[Track Chairs]**

- Track Chair, "Key Trends in Supply Chain Management", Conference of the Korean Society of Supply Chain, Seoul, Korea, Dec. 2005
- Track Chair, "Semantic Web for EC: How to overcome the hurdles and create the future?", International Conference on Electronic Commerce, ICEC 2005, Xian, China, Aug. 2005
- Track Chair, Web Based Information System and e-Commerce, ICIS 2005, Las Vegas

### **Founded Organizations and Presidency**

- President-Elect of Association for Information Systems, 2014
- CIO Council of Korea Electronic Industry, President, 2004-9
- Web Korea Forum, President, 2003-5
- International Conference on Electronic Commerce, Founding Chair, 1998
- International Center for Electronic Commerce, Founding Chair, 1996
- Korea Intelligent Information Systems Society, President, Dec. 1990 - Dec. 1996
- Pacific Asia Conference on Expert Systems, Charter Member (1993) and Executive Committee Member

### **[Academic Membership]**

- Association of Information Systems
- International Society of Decision Support Systems
- ACM
- IEEE Computer Society
- American Association for Artificial Intelligence
- Korean Society of Intelligent Information Systems
- Korean Society of Management Information Systems
- Korean Operations Research and Management Science Society

## KAIST Administrative Services

- Director, EEWS (Energy, Environment, Water and Sustainability) Research Center, July 2007 – Present
- Director, HHI-KAIST EEWS Research Center, 2013 - Present
- Head, EEWS Executive Program, 2009- Present
- Dean, College of Business, July 2006- June 2007
- Head, Department of Management Engineering, 1996-7
- Head, Department of Management Information Engineering, 1991-4

## Contributions to Government

- Director, National IT Promotion Agency, 2009- Present
- Director, National Institute of Electronic Commerce, 2001-8
- Chairman of Committee, National Networking of Small and Medium Enterprises, 2003 – 2005
- Chairman of Committee, Korean eBusiness Case Development, 2003 - 2005
- Advisor, National Growth Engine Planning, Ministry of Knowledge Economy, 2009
- Advisor, National Assembly Research Service, Dec. 2008 – Present
- Advisor, Business Develop, Korea Rail Road, Feb 2003 – Feb 2006
- Advisor, International eCommerce, Ministry of International Trade, July 1999– June 2000
- Advisor, Information System Council, Seoul City, 1998

## [Industrial Contribution]

- Director, Hyundai Heavy Industry, 2009-2012
- Director, Kukmin Bank, 2001-2

## Granted Research Projects

- **Jan. 2010 – Dec. 2013**  
Portfolio Plan for National Energy and Carbon Emission
- **June. 2009 – Dec. 2009**  
Planning EEWS Research Projects
- **May. 2009 – Dec. 2009**  
Economic Analysis of Electric Vehicles Adoption



- **June. 2009 – Dec. 2009**  
Logistics with Mobile Harbor System
- **Mar. 2004 - Aug. 2004**  
Certification Systems for Ethical Information Management, Korea Association of Information Industry
- **May 2003 - Dec. 2003**  
Director, Design of Payment Solution based on SDT, F&BC
- **Mar. 2003 - Feb. 2003**  
Director, Promotion for Distribution SCM /e-Procurement strategy and System of LCN, Lotte Data Communication Company
- **Nov. 2001 - Apr. 2002**  
Director, Design of International Electronic Receipt Model, Asian Sign
- **Mar. 2001 - Nov. 2001**  
Director, Design of Integrated CRM System and Embodiment of Proto-Type for The bank, Stelcom
- **Mar. 2000 - Dec. 2000**  
Director, Design of ePayment Systems for the Game Industry, Dream Data
- **Mar. 2000 - Dec. 2000**  
Director, Design of B2B EC Business and Solutions, Supermerce
- **Jan. 2000 - Dec. 2000**  
Director, Development of Construction Project Management Expert System, Hyundai Information System
- **Oct. 1999 - Jan. 2000**  
Director, Oversea Marketing Strategy in e-Commerce Era: e-Vision, LG Electronics
- **Oct. 1999 - Sep. 2000**  
Director, Development of Internet Multimedia Call Center, Stelcom
- **Jul. 1999 - Sep. 1999**  
Director, Strategy of Cyber-Security Company, Daewoo Securities Director, Strategy of Cyber-Security Company, Daewoo Security
- **May 1999 - Oct. 1999**  
Director, Internet Banking Strategy, Hanvit Bank
- **Jun. 1999**  
Director, A Study on the Industrial Transformation and Government Policy on Introducing CALS/EC, National Computerization Agency
- **Oct.1997 - Sep. 1998**  
Director, Development of Project Management Expert System, Hyundai Information System
- **May 1997 - Apr. 1998**  
Director, Development of Internet based Electronic Shopping Mall, ICEC
- **Oct. 1996 - Sep. 1997**  
Director, Development of Project Management Expert System, Hyundai Information System
- **Feb. 1996 - Mar. 1997**  
Director, Development of Optimal Price Support System for Hanyang Distribution, Hanyang Distribution

- **Sep. 1995 - Jan. 1997**  
Director, Development of Optimal Inventory and Supply Management System for Soft Coal, Korea Electricity
- **Nov. 1995 - Nov. 1996**  
Director, Development of Insurance Expert system, Dongboo Information System
- **Sep.1995 - Nov. 1995**  
Director, Artificial Intelligence System Development Guide for Korea Electricity, Saeil Information Communication
- **Dec. 1994 - Nov. 1995**  
Director, Development of Distribution Information System, Hanyang Distribution
- **Dec. 1994 - Nov. 1995**  
Director, Expert System for Software Development Support, Saeil Information Communication
- **Apr. 1994 - Mar. 1995**  
Director, Development of Shipping Scheduling Expert System (DAS-II) for Daewoo Shipping
- **Dec. 1993 - Dec. 1994**  
Director, Distributed Intelligent Agent Environment Development
- **Apr. 1994 - Nov. 1994**  
Director, Intelligent Personal Secretary Service Technology
- **Jan. 1993 - Dec. 1993**  
Director, Development of Unified Knowledge Environment: UNIK
- **Jan. 1993 - Dec. 1993**  
Director, "Development of Unified Knowledge Management Tool: UNIK", Daewoo
- **Jan. 1991 - Dec. 1991**  
Director, "Scheduling Expert Systems: DAS" for Daewoo Shipbuilding
- **Aug. 1989 - Aug. 1990**  
Visiting Scientist, Center for Integrated Manufacturing Decision Systems, The Robotics Institute, Carnegie Mellon University; Have joined the research on AI-based scheduling system: CORTES Project.
- **Jun. 1988 - Dec. 1991**  
Director, "Application of Artificial Intelligence for Refinery Industry" for Yukong Co.
- **Jan. 1989 - Aug. 1989**  
Director, "Intelligent Stock Portfolio Management Systems: K-FOLIO" for Lucky Securities Company
- **Jul. 1986 - Jun. 1988**  
Director, "Development of Expert System for Korean Corporate Tax Consultation" for Ssangyong Computer Systems
- **Mar. 1986 - May 1988**  
Director, "Integration of Knowledge-based Expert Systems with Quantitative Analysis" for Korean Minister of Science and Technology

- **Jan. 1986 - Dec. 1986**  
Director, "Development of Production Scheduling Expert System with Data Base" for Jung Won Co., Ltd.
- **Sep. 1985 - Feb. 1986**  
Director, "Development of Data Base for Total Financial Management" for Ohade Metal Co.
- **Jan. 1980 - Aug. 1981**  
System Analyst/Programmer, Design of Unified Data Base/Data Generating Technology Base for US Air Force

### Published Books [English]

- Venky Shankararaman, J. Leon Zhao and Jae Kyu Lee, *Business Enterprise, Process and Technology Management: Models for Optimization*, IGI Global, March, 2012
- E, Turban, Jae K. Lee, Ting-Peng Liang, Deborrah Turban, *Electronic Commerce: A Managerial Perspective 2010*, Prentice Hall, 2010, 2012
- E, Turban, Jae K. Lee, David King, Judy Mackay, Peter Marshall, Dennis Viehland, *Electronic Commerce: A Managerial Perspective 2008*, Prentice Hall, 2008
- Jae K. Lee, Benjamin Gan, Vijay Sathi, *Premier eBusiness Cases from Asia*, Prentice Hall, 2006
- E. Turban, Jae K. Lee, and David King, *Electronic Commerce: A Managerial Perspective 2006*, Prentice Hall, 2006 (2004, 2002, 2000)
- R. Trippi and Jae K. Lee, *Artificial Intelligence in Finance and Investing*, Irwin, 1995
- R. Trippi and Jae K. Lee, *State of the Art Portfolio Selection using Knowledge-based Systems*, Probus Publishing Co., 1992
- Jae K. Lee, et al.(eds.) *Operational Expert System Applications in the Far East*, Pergamon Press, 1991

### Published Books [Korean]

- Design of Clean and Green Country (eds.), Money Plus, 2012
- Jae K. Lee et al., *Electronic Commerce*, 3rd – 5rd Edition, Bupyoung, 2002 - 2012
- Jae K Lee, et al.(eds), *Management Information System*, 3<sup>rd</sup> Edition, Bupyoung, 2005 - 2011
- Jae K. Lee, et al., *Expert Systems: Principles and Design*, Bupyoung, 2006
- Jae K. Lee et al., *Electronic Commerce and Marketing Revolution*, 3rd Edition, Bupyoung, 2000
- Jae K. Lee, et al., *Development of Expert System with UNIK*, Bupyoung, 1996
- Jae K. Lee, et al., *Expert Systems: Principle and Development*, Bupyoung, 1996

- Jae K. Lee, et al., *Expert Systems: Application and Case Analysis*, Bupyoung, 1995
- Jin J. Lee and Jae K. Lee, et al., *Management Information Systems: User's Perspective*, Dasan Publishing Co., 1989

## International Journal Papers

### [In Progress]

Jae Kyu Lee, Jinsoo Park, Shirley Gregor, "Axiomatic Theory on Information Systems Research", MIS Quarterly, Conditionally, Accepted 2013

Jong Han Park, Jae Kyu Lee, Hong Chuin Lau, "A Framework of Bidder Relationship Management for Online Repeated Procurement Auctions" On revision for ECRA

### [Published]

- Gyoo Gun Lim, Ju Young Kang, Jae Kyu Lee, Dae Chul Lee, "Rule-based personalized comparison shopping including delivery cost", pp.637-647, Vol.10, No.6, 2011, *Electronic Commerce Research and Applications*, 2011
- Park, S. and Lee, J.K. 2007. Rule Identification Using Ontology While Acquiring Rules from Web pages. *International Journal of Human-Computer Studies*, Vol.65, No.7 (2007), 659-673.
- Jae Kyu Lee and Nobok Lee, Least modification principle for case-based reasoning: a software project planning experience, *Expert Systems with Applications*, Vol. 30, Issue. 2, Feb. 2006
- Lee, J. K. and Chang, Y. S., A Framework of Optimization Agent for Supply Chain Management , B. Chaib-draa and J. P. Müller (Eds.), *Multiagent-Based Supply Chain management*, LNCS, Springer, 2005
- Jong H. Park, Jae K. Lee and Jung S. Yoo , A Framework for Designing the Balanced Supply Chain Scorecard, *European Journal of Information Systems*, Vol. 14, No. 4, 2005
- Juyoung Kang and Jae Kyu Lee, "Rule Identification from Web Pages by the XRML Approach", *Decision Support Systems*, Vol. 41, No. 1, 205-227, 2005
- Hyun Jung Lee and Jae Kyu Lee, "An Effective Customization Procedure with Configurable Standard Models", *Decision Support Systems*, Vol. 41, 262-278, 2005
- Yong Sik Chang and Jae Kyu Lee, "Case-based Modification for Optimization Agents: AGENT-OPT", *Decision Support Systems*, Vol. 36, pp. 355-370, 2004.
- Chan Young Kim, Jae Kyu Lee, Yoon Ho Cho and Deok Hwan Kim, "VISCORS: a Visual Contents Recommender System on the Mobile Web", *IEEE Intelligent Systems*, Vol. 19, No. 6, 32-39, 2004
- Yong Sik Chang and Jae Kyu Lee, "Case-based Modification for Optimization Agents: AGENT-OPT", *Decision Support Systems*, Vol. 36, pp. 355-370, 2004.

- Gyoo Gun Lim and Jae Kyu Lee, "Buyer-Carts for B2B EC: The b-Cart Approach", *Organizational Computing and Electronic Commerce*, Vol.13, No.3&4, pp.289-308, Sep. 2003.
- Jae Kyu Lee and Mye Sohn, "eXtensible Rule Markup Language", *Communications of the ACM*, Vol 46, No.5, pp.59-64. May 2003
- Young Hee Joh and Jae Kyu Lee, "Buyer's Customized Directory Management over Seller's e-Catalogs: Logic Programming Approach", *Decision Support Systems*, Vol.23, No. 1 pp. 197-212, January 2003
- Jae Kyu Lee, "Business-to-Business Electronic Commerce", *Encyclopedia of Information Systems*, Academic Press, pp. 81-97, 2002
- Jae Kyu Lee and E. Turban, "Planning Business-to-Business E-Procurement Marketplaces, *The e-Business Handbook*, CRC Press, pp. 167-188, 2002
- Jae Kyu Lee, Heegoo Kang, Hoe Kyung Lee, and Hansoo Lee, "Evolutionary Stages of e-Tailers and Retailers: Firm Value Determinants Model", *Journal of Global Information Management*, Vol. 10, No. 3, pp. 15-35, July-Sep, 2002
- Eung Sup Jun and Jae Kyu Lee, "Quasi-Optimal Case-Selective Neural Network Model for Software Effort Estimation", *Expert Systems with Applications*, 2001
- Moon, B. K., Lee, Jae Kyu, and Lee, K. J., "A Next Generation Multimedia Call Center for Internet: IMC", *Organizational Computing and Electronic Commerce*, Vol. 10, No. 4, pp. 225-226, 2000
- Kyung Jun Lee, Yong Sik Chang, and Jae Kyu Lee, "Time-Bound Negotiation Framework for Electronic Commerce Agent, *Decision Support System*, Vol. 28, No. 4, pp. 319-331, June 2000
- Nahk Hyun Sung and Jae Kyu Lee, "Knowledge Assisted Dynamic Pricing for Large-scale Retailers, *Decision Support System*, Vol. 28, No. 4, pp. 347-264, June 2000
- Han Seong Yoon and Jae Kyu Lee, "An Intelligent Agents-Based Virtually Defaultless Check System: The SafeCheck System, *International Journal of Electronic Commerce*, Vol. 4, No. 3, pp. 87-106, Spring 2000
- Lee, Jae Kyu and Yeoul Hwangbo, "Cyber-consumption Taxes and Electronic Collection Systems: Canonical-Delivered Sales Tax, *International Journal of Electronic Commerce*, Vol. 4, No. 2, 61-82, Feb 2000
- Lee, Jae Kyu and Woong Kyu Lee, "An Intelligent Agent Based Competitive Contract Process: UNIK-AGENT, *International Journal of Intelligent Systems in Account, Finance and Management*, Vol. 7., pp. 91-105, June 1998
- Lee, Jae Kyu and June S. Hong, "A Regenerative Expert System Approach for the Maintenance of Expert Systems, *Expert Systems with Application*, Vol. 14, pp.313-321, June 1998
- Kyung Jun Lee, Hyun Woo Kim, Jae Kyu Lee, and Tae Hwan Kim, "Case-and Constraint-Based Project Planning for Apartment Construction", *AI Magazine*, Vol. 19, No. 1, pp. 13-24, 1998, Spring
- Jae Kyu Lee, Chang Sun Yum, "Judgmental Adjustment in Time Series Forecasting Using Neural Network", *Decision Support System*, Vol. 22, No. 2, pp. 135-154, 1998
- Lee, Jae Kyu, Sang Zo Nam, "An Object-oriented Optimal Savings System: HYPER-SAVINGS, *Intelligent Systems in Accounting, Finance and Management*, Vol. 6, pp. 303-320, 1998

- Byoung Y. Lee, Jae K. Lee, and Wooju Kim , "A Knowledge-Based Maintenance of Legacy Systems: METASOFT", Expert Systems with Applications, Vol. 12, No. 4, pp. 483-496, 1997
- Jae Kyu Lee, Kyoung Jun Lee, Hung Kook Park , June Seok Hong, and Jung Seung Lee, "Developing Scheduling Systems for Daewoo Shipbuilding: DAS Project", European Journal of Operational Research, 1997. 4. pp. 380-395
- Sang Kee Lee, Jae Kyu Lee and Kyoung Lee "Customized Purchase Supporting Expert System: UNIK-SES", Expert Systems with Applications, Vol. 11, No. 4, pp. 431-441, 1996
- Wooju Kim, and Jae Kyu Lee, "UNIK-OPT/NN: Neural Network-based Adaptive Optimal Controller on Optimization Models", Decision Support Systems, Vol. 18, pp. 43-62, 1996
- Kyoung Jun Lee, Jae Kyu Lee and Soo Yeoul Choi, "A Spatial Scheduling System and its Application to Shipbuilding : DAS-CURVE", Expert Systems with Applications, Vol. 10, No. 3/4, pp. 311-324, 1996
- Jae K .Lee and Chulsoo Kim, "Automatic Structural Identification and Relaxation for Integer Programming", Decision Support Systems, Vol. 18, pp. 253-271, 1996
- Yeom, Kuhn, Jae K. Lee, "Logical Representation of Integer Programming Models", Decision Support Systems, Vol. 18, pp. 227-251, 1996
- Kyoung Jun Lee, Jae K.Lee, and Soo Yeoul Choi, "A Spatial Scheduling System and its Application to Shipbuilding: DAS-CURVE", Expert Systems with Applications, Vol. 10, No. 3/4, pp. 311-324 1996.
- Jae K.Lee, and Yong Uk Song, "UNIK-PMA: A Unifier of Optimization Model with Rule-based Systems by the Post-Model Analysis", Annals of Operations Research Vol. 65, pp. 157-179, 1996
- Jae K. Lee, K. J. Lee, J. S. Hong, W. J. Kim, E. Y. Kim, S. Y. Choi, H. D. Kim, O.R. Yang, and H. R. Choi, "DAS: Intelligent Scheduling Systems for Shipbuilding", AI Magazine, Vol. 16, no. 2, pp. 78-94, Winter, 1995
- Jae K.Lee, Min Wha Jeong, "Intelligent Audit Planning System for Multiple Auditors: IAPS", Expert Systems with Applications, Vol. 41, No. 4, pp. 579-589, 1995
- Jae Kyu Lee Yong U. Song, "Unification of Linear Programming with a Rule-based System by the Post-model Analysis Approach", Management Science, Vol. 41, No. 5, May 1995
- Jae K. Lee, Suh B. Kwon, "ES\*: An Expert Systems Development Planner Using a Constraint and Rule-based Approach", Expert Systems with Applications, Vol. 9, No. 1, pp. 3-14, 1995
- Jae Kyu Lee, Min Y. Kim, "Knowledge-assisted Optimization Model Formulation: UNIK-OPT", Decision Support Systems, Vol. 13, No. 2, pp. 111-132, 1995
- Jae K. Lee, Suh B. Kwon, "Expert Systems Activities and Trends in Korea ", Worldwide Expert Systems Activities and Trends, ed. Liebowitz, J., 1994, pp. 16 - 31
- Jae K. Lee, Hyung Rim Choi, Ok R. Yang, Ho D. Kim, "Scheduling Shipbuilding Using Constraint Directed Graph Search: DAS-ERECT", Intelligent Systems in Accounting, Finance and Management, Vol. 3, pp. 111-125, 1994

- Jae K. Lee, and W. C. Jhee, "A Two Stage Neural Network Approach for ARMA Model Identification with ESACF", *Decision Support Systems*, Vol. 11, No. 5, pp. 461-479, 1994
- Jae K. Lee, and Min Y. Kim, "Case-based Learning for Knowledge-Based Optimization Modeling System: UNIK-CASE", *Expert Systems with Application*, Vol. 6, No. 1, pp. 87-95, 1993
- Jae K. Lee, M. S. Suh and M.S. Fox, "Contingencies for the Design of Scheduling Expert Systems", *Expert Systems with Applications*, Vol. 6, No. 3, pp. 219-230, 1993
- Won Chul Jhee and Jae K. Lee, "Performance of Neural Networks in Managerial Forecasting", *Intelligent Systems in Accounting, Finance & Management*, Vol. 2, No. 1, pp. 55-71, 1993.
- Jae K. Lee, H. S. Kim and R. R. Trippi, "Security Trading Rule Synthesis: A Syntactic Pattern-Based Learning Approach", *Heuristics*, Vol. 5, No. 4, Winter 1992
- Won C. Jhee, Kun C. Lee and Jae K. Lee, "A Neural Network Approach for the Identification of Box-Jenkins Model", *Network: Computation in Neural Systems*, 3, 1992, pp. 323-339.
- Jae K. Lee, Yong Uk Song, Min Soo Suh, and Han Seong Yun, "UNIK-PCS: A Crude Oil Delivery Scheduling System", *Operational Expert System Applications in the Far East*, Pergamon Press, 1991.
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- "Dynamics of National Green Policy, Green Business Strategy, and Green Technology Research Planning", International Symposium on Sustainability, Kyoto University, August 1, 2010
- "From Management Science to Management Wisdom", Wharton Forum, Seoul, May 29, 2010
- "Globalization and Localization of e-Business: Challenges and Strategies", IEEE AMIGE 2008, Tianjin, China

- “How to make Agents work in the real world”, The 2nd International Symposium on Agents and Multi-agent Systems-Technologies and Applications, Seoul, March 2008
- “Ups and Downs of e-Payment and e-Banking Business”, International Workshop on Electronic Payment and Electronic Commerce in China, Chengdu, May 18-19, 2007
- “Ten Lessons in E-Commerce for Business Opportunity and Challenges: SME Perspective”, Taipei Forum, September 19, 2006
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- “Where we are in EC Research”, e-Biz World Conference, Seoul, Feb. 25, 2004
- “EC Reality in Broadband Society and Challenges”, Pacific Asia Conference on Information Systems, Adelaide, Australia, July 2003
- “Semantic Web with XRML”, The Second International Human.Society@Internet Conference, Seoul, June 18, 2003
- “Broad Band Society and EC Thereafter”, E-Business Chair, Katholieke Universiteit, Leuven, Feb. 11, 2003
- “Prospect of Taxation Systems in EC Era”, Asia-Oceania Tax Consultants’ Association, Japan Meeting, 2002
- “E-Business Trend and Cases in Korea” , UN ESCAP, Nov. 13, 2002
- “Artificial Intelligence in Electronic Commerce”, Pacific Rim Conference on Artificial Intelligence, Melbourne , 2000

### **Korean Keynote Speeches**

- “Why New Growth Engines Necessary”, New Growth Engine Conference, July 16, 2010
- “Supply Chain of Electronic Industry”, Business Process Management Solution Conference, Seoul 2007
- “Recent Activities of SCM and Logistics in Singapore”, Incheon, Nov. 2005
- “Trend of EC and SCM”, Korea Society of SCM, Nov. 2003
- “e-Commerce and Innovation”, Future of Information Society Seminar, 2003
- “IT Hub in the Far East”, Workshop on Toward Far East R&BD Hub, Incheon, July 2003
- “Today and Tomorrow of Internet Marketing”, Korea Society of Retailers, Nov. 2002

## International Tutorials

### **Theme: Artificial Intelligence in Electronic Commerce**

- Pacific Rim International Conference on Artificial Intelligence, Melbourne, 2000
- The Fourth World Congress on Expert Systems, Mexico City, 1998
- Pacific Asian Conference on Expert Systems, Singapore, 1997
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### **Theme: Unification of AI with Optimization for Decision Support**

- The Second Singapore International Conference on Intelligent Systems, Singapore, Nov. 1994
- 94 Japan/Korea Joint Conference on Expert Systems, Tokyo, Mar. 1994
- The Second World Congress on Expert Systems, Lisbon, Jan. 1994
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## Editorships of Special Issues

- Edited a special issue on Knowledge Management Technique, Decision Support Systems, Vol. 36, No. 4, March 2004
- Edited a special issue on Agent and e-Business Models, Decision Support Systems, Volume 34, Issue 2, January 2003
- Edited a special issue on Intelligent agents and pricing in electronic commerce, Decision Support Systems, Volume 28, Issue 4, June 2000
- Edited a special issue on Electronic Commerce, Decision Support Systems, 1999
- Edited a special issue on Electronic Commerce, Journal of Organizational Computing and Electronic Commerce (JOCEC), 1999
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