

Curriculum Vitae



Personal

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Education

- Ph.D., Mechanical Engineering in Soongsil University, Korea (Feb. 1998)
- M.Sc., Mechanical Engineering in Soongsil University, Korea (Feb. 1992)
- B.Sc., Mechanical Engineering in Soongsil University, Korea (Feb. 1988)

Areas of Specialization and Research Interests

- Science & Technology Information Research & Analysis in Mechanical Engineering
- Patent Information Research & Analysis in Mechanical Engineering
- International Cooperation with R&D Institutes

Working Career

- Principal Researcher, Information Analysis Center Seoul Regional Office (KISTI, 2009 - Present)
- Exchange researcher, Oklahoma State University Exchange Training (OSU, 2009-2010)
- Director/Principal Researcher, Information Analysis Center Gyeongin Regional Office (KISTI, 2008)
- Manager, Information Convergence Development Team (KISTI, 2006 - 2007)

- Researcher, Korea Institute of Science and Technology Information (KISTI) (1991 - 2005)
- Mechanical Engineer, Pacific Amore Co. (1988 - 1991)

Representative Work (2005-Present)

- Participate in the project “17 Technology Mentoring and Demand-based R & D Planning Support Project” by National Science and Technology Research Council (2017)
- Participate in the project “Establishment of support system for small and medium-sized enterprises based on industry-academia-university knowledge ecosystem” by KISTI (2017)
- Participate in the project “Development and application of supercomputing modeling and simulation technology” by Ministry of Commerce, Industry and Energy (2016)
- Participate in the project “Establishment of Small and Medium-Sized Enterprises through Establishment of Collaborative Network of Industry-University-Academia Collaboration” by KISTI (2016)
- Participate in the project “Small Business Support Integration Center Seoul Regional Center Operation Project” by KISTI (2015)
- Participate in the project “Joint Technology Support Project for 12 Regional Demand Response Support for Small & Medium Business Support Integration Center” by KISTI (2014)
- Participate in the project “Supporting the Knowledge-Ecosystem for Industry-Academic-Academic-Educational Research and Supporting Knowledge-based” by KISTI (2014)
- Project Manager for “Domestic and overseas market information analysis support project” by Geo Co., Ltd. (2013)
- Project Manager for “Knowledge Mentoring Customized Technology Information project” by Korea Southern Power Co., Ltd. (2012-2013)
- Participate in the project “Collaborating with industry-academia-government through building knowledge ecosystem” by KISTI (2011)
- Project Manager for “Technology Information Service & Patent Consulting” by KICOX (2009)
- Project Manager for “R&D Based Planning Education” by Gyeonggi BIO Center (2008)
- Project Manager for “The Quality Assessment of Korean Patent for the Research and Development” by Korea Intellectual Property Office (KIPO) (2007)
- Project Manager for “Information Convergence Development” by KISTI (2006)
- Project Manager for “Patent Information DB Construction” by KISTI (2005)
- Project Manager for “Patent Map” by KIPO (2002 - 2005)

Research Papers (2005-Present)

- “The relationship between technology, business model, and market in autonomous car and intelligent robot industries”, Technological Forecasting and Social Change, 2016, 103(Feb.), 142-155

- “Network Analysis of Open Innovation”, Sustainability 2016, 8, 729. DOI: 10.3390/su8080729
- “A study on the current status and strategies for improvement of web accessibility compliance of public institutions”, Journal of Open Innovation: Technology, Market, and Complexity, 2015, DOI: 10.1186/s40852-015-0001-0
- “Convergence innovation of the textile machinery industry in Korea”, Asian Journal of Technology Innovation, 2015, 23(1), 58-73
- “The Effect of Initial Public Offering (IPO) on Open Innovation: Findings from Seoul Digital Complex (SDC)”, Journal of the Korean Entrepreneurship Society, 2015, 10(1), 162-186
- “An exploratory study on the development path of converging technologies using patent analysis: the case of nano biosensors”, Asian Journal of Technology Innovation, 2014, 22(1), 100-113
- “Analysis of Sustainable Development of Seoul Digital Industrial Complex (G Valley)”, Asia Pacific Journal of Innovation & Entrepreneurship (APJIE), 2014, 8(1), 77-92
- “Introduction of an Objective Model to Measure Open Innovation and Its Application to the Information Technology Convergence Sector”, Knowledge Cities World Summit; KCWS 2014
- “Analyzing the difference of Open Innovation between before and after IPO”, Int. J. of Technology, Policy and Management, 2014, 14(4), <https://doi.org/10.1504/IJTPM.2014.065025>
- “Identifying Emerging Free Technologies by PCT Patent Analysis”, The Journal of the Korea Institute of Electronic Communication Sciences, 2014, 9(1) 111-122
- “Technology Trend of Smart Clothing: Based on Patent Information Analysis”, The Journal of the Korea Contents Association, 2013, 13(4) 440-451
- “Evaluation of Technology Activity, Innovation and Productivity using Korean Patent Information”, J. Information Management, 2011, 42(2), 151-165
- “Global Online Leadership Strategies for Public and Private Sectors”, Journal of Korea technology innovation society, 2013, 16(1) 1-19
- “A Study on the Statistical Analysis of Korea Patent Information”, J. Information Management, 2010, 41(3), 27-44
- “A Study on the Development and Adaption of Open Innovation Analysis Model”, Journal of Korea Technology Innovation Society, 2010, 13(1), 99-123
- “A Study on the Effectiveness of Industry Trend Analysis Using Patent Information”, ICC2008 (International Conference on Convergence Content)
- “Identification of Emerging Research at the national level: Scientometric Approach using Scopus” J. Information Management, 2008, 39(3), 95-113
- “A Emerging Research Field Selection of Construction & Transportation Sectors” J. Korea Contents, 2008, 8(2), 231-238

- “A Emerging Research Field Selection of Construction & Transportation Sectors” Korea Contents Workshop, 2007, 153-159
- “A Study on Patent Information Dissemination Model using Super Computer”, KOSTI Workshop, 2006, 32-39
- “Information Service Model using knowledge visualization”, KOSTI Workshop, 2006, 40-47
- “A Study on the Knowledge Flow of Science, Technology and Industry using Patent Citation Information”, Korea Contents Workshop, 2006, 4(2), 706-710
- “A Study on Korean Intellectual Structure of OLED Technology Using Co-Authorship Analysis”, Korea Contents Workshop, 2006, 4(2), 667-671
- “A study on the research outcome measurement and application using the patent citation information”, Korea Technology Innovation Workshop, 2006, 397-406
- “A Study on the Development of New Patent Index Used the Citation Information”, J. Information Management, 2006, 23(1), 221-241
- “A Study on Screening Method of Key Patents Using Bibliometric Algorithm”, APIC-IST Workshop, 2006, 231-239
- “Science Technology Linkage – Korean Originated U.S. Patents”, APIC-IST Workshop, 2006, 313-320
- “A Study on the Reference Information for the Patent Databases”, J. Library and Information Science, 2005, 8(1), 110-132
- “A Study on the Advanced Electronic Book System based in Web”, J Korea Billie Society for Library & Information Science, 2005, 12(2)

Research Reports

- “Partner for Patent Analysis” (KISTI, 2006. 3.)
- “Patent Information Application Guide” (KISTI, 2006. 3.)

Patent Application

- “METHOD OF SITED AND SITING INFORMATION ANALYSIS FOR PATENT MAP AND MEDIA THAT CAN RECORD COMPUTER PROGRAM THEREOF”, (KR- 10-1045977)
- “APPARTUS, SYSTEM AND METHOD FOR SELECTING CORE TECHNOLOGY AND DEVELOPER BASED ON THE EVALUATION FROM EXTERNAL HUMAN RESOURCE”, (KR- 10-1548526)
- “Information searching system and method based on location using a smart phone”, (KR- 10-1148926)
- “Method for providing retrieval service using integrated data base and Server thereof”, (KR- 10-1362090)

- "System and method for providing a technology information", (KR- 10-0993816)
- "System and Method for analysis of information", (KR- 10-0993817)
- "METHOD AND SYSTEM FOR LANGUAGE-CROSS SEARCH", (KR- 10-0956413)
- "Contents Making System" (KR-10-0366938)
- "Search System of Non-Keyword Type Using Tree Structure and Search Method for the Same" (KR-10-0850776)
- "Search System of Information Using Formula For international Patent Classification and Method For The same" (KR-10-0849690)
- "System and Method for Model Mapping Of Technology Using Period By Quoted Information" (KR-10-0810687)
- "System and Method for Supplying Patent Map Be Able to grasp Correlation Degree between Data" (KR-10-0751276)
- "Method and Server for Managing Dormant Patent Right" (KR-10-0719513)
- "System and Method for Supplying Core Patent Index of Intellectual Property Information" (KR-10-0722567)
- "Patent Retrieve System and Method by Using Text Mining" (KR-10-0718745)
- "Real-Time Quality Measurement Method of Bibliographic database" (KR-10-0700376)
- "The Method for Making Contents" (KR-10-0398768)
- "System and Method for Providing For Information Related E-Book" (KR-10-0563959)

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