

Curriculum Vitae

Heuseok Lim

PERSONAL DATA

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Present Position: Professor, Department of Computer Science Education, College of Education,
Korea University, Korea



ACADEMIC POSITIONS

2008-Present Professor, Dept. of Computer Science Education, Korea University, Korea
2011-2012 Visiting Professor, Dept. of Computer Science, Univ. of Colorad at Boulder
2004-2008 Associate Professor, Dept. of Computer Information Software, Hanshin University
1999-2004 Assistant Professor, Dept. of Information Communication, Baesuk University

EDUCATION

Ph.D. in Computer Science, Korea University, 1997.
M.A. in Computer Science, Korea University, 1994.
B.A. in Computer Science, Korea University, 1992.

Research Interests

Natural Language Processing
Artificial Intelligence & Machine Learning
Brain-Computer Interface
Computer Science Education
Information Retrieval

Journal Publications

1. Danial Hooshyar, Moslem Yousefi, Heuseok Lim
“A systematic review of data-driven approaches in player modeling of educational games”
Artificial Intelligence Review, 2018, Online First
2. Jaechoon Jo, Wonhui Yu, Kyu Han Koh, Heuseok Lim
“Development of a Game-Based Learning Judgment System for Online Education
Environments Based on Video Lecture: Minimum Learning Judgment” Journal of Educational
Computing Research, October, 2017. Online First
3. Danial Hooshyar, Moslem Yousefi, Heuseok Lim
“Data-driven Approaches to Game Player Modeling: A Systematic Literature Review” ACM
Computing Surveys, 50(6):1-19, 2018
4. Danial Hooshyar, Rodina Binti Ahmad, Minhong Wang, Moslem Yousefi, Moein Fathi, and
Heuseok Lim
“Development and Evaluation of a Game-based Bayesian Intelligent Tutoring System for
Teaching Programming” Journal of Educational Computing Research, 2017, Online First
5. Hyesung Ji, Youdong Yun, Seolhwa Lee, Kuekyeng Kim, Heuseok Lim
“An adaptable UI/UX considering user’s cognitive and behavior information in distributed
environment” Cluster Computing, July, 2017 Online First
6. Aram So, Danial Hooshyar, Kun Woo Park, Heuseok Lim
“Early Diagnosis of Dementia from Clinical Data by Machine Learning Techniques” Applied
Science – Computer Science and Electrical Engineering , June, 2017.
7. Danial Hooshyar, Moslem Yousefi, Heuseok Lim
“A Procedural Content Generation-based Framework for Educational Games: Towards a
Tailored Data-Driven Game for Developing Early English Reading Skills” Journal of
Educational Computing Research, May, 2017. Online First
8. Youdong Yun, Danial Hooshyar, Jaechoon Jo, Heuseok Lim
“Developing a Hybrid Collaborative Filtering Recommendation System with Opinion Mining
on Purchase Review” Journal of Information Science (JIS), February, 2017.
9. Seolhwa Lee, Danial Hooshyar, Hyesung Ji, Kichun Nam, Heuseok Lim
“Mining Biometric Data to Predict Programmer Expertise and Task Difficulty” Cluster
Computing, January, 2017.
10. Danial Hooshyar, R. B. Ahmad, M. Yousefi, Moein Fathi, Shi-Jinn Horng, Heuseok Lim
“SITS: A Solution-based Intelligent Tutoring System for Students’ Acquisition of Problem
Solving Skills in Computer Programming” Innovations in Education and Teaching International,

June, 2016.

11. D. Hooshyar, R. B. Ahmad, M. Yousefi, Moein Fathi, A. Abdollahi, Shi-Jinn Horng, Heuseok Lim
“A solution-based intelligent tutoring system integrated with an online game-based formative assessment: development and evaluation” *Educational Technology Research and Development*, Vol.64, No.4, pp.787-808, 2016
12. Ji-won Han, Jae-choon Jo, Hye-sung Ji, Heuseok Lim
“A collaborative recommender system for learning courses considering the relevance of a learner’s learning skills” *Clustering Computing*, Vol.19, Issue 4, pp 2273–2284, 12, 2016
13. Jeongbae Park, Hyesung Ji, Jaechoon Jo, Heuseok Lim
“A Method for Measuring Cooperative Activities in a Social Network Supported Learning Environment” *Wireless Personal Communications*, Vol.89, No.863, pp.863-879, 2016
14. Danial Hooshyar, Rodina Binti Ahmad, Moslem Yousefi, Moein Fathi, Shi-Jinn Horng, Heuseok Lim
“Applying an online game-based formative assessment in a flowchart-based intelligent tutoring system for improving problem-solving skills” *COMPUTERS & EDUCATION*, 3, 2016
15. YeongWook Yang, WonHee Yu, Heuseok Lim
“Predicting Second Language Proficiency Level Using Linguistic Cognitive Task and Machine Learning Techniques” *WIRELESS PERSONAL COMMUNICATIONS*, 1, 2016
16. Sunghyun Yun, Heuseok Lim, Kyungyong Chung
“The biometric signature delegation scheme to balance the load of digital signing in hybrid P2P networks” *PEER-TO-PEER NETWORKING AND APPLICATIONS*, 7, 2015
17. Hyesung Ji, Kinam Park, Jaechoon Jo, Heuseok Lim
“Mining students activities from a computer supported collaborative learning system based on peer to peer network” *PEER-TO-PEER NETWORKING AND APPLICATIONS*, 1, 2015
18. JangMook Kang, Heuseok Lim, Sunghyun Yun
“A study for the mechanism of expression of individual creativity throughout the social learning platform in cluster computing environment” *CLUSTER COMPUTING*, 6, 2015
19. Jaechoon Jo, Jeongbae Park, Hyesung Ji, Yeongwook Yang, Heuseok Lim
“A study on factor analysis to support knowledge based decisions for a smart class” *INFORMATION TECHNOLOGY AND MANAGEMENT*, 4, 2015
20. Ji-Won Han, Heuseok Lim

- “Strategic Analysis and Success Factors of the Enterprises through the Convergence”
International Journal of Applied Engineering Research, 11, 2014
21. Jaechoon Jo, Kinam Park, Dogil Lee, Heuseok Lim
“An Integrated Teaching and Learning Assistance System Meeting Requirements for Smart Education” Wireless Personal Communications, 4, 2014
22. Kinam Park, Heuseok Lim
“A computational model explaining language phenomena on Korean visual word recognition”
COGNITIVE SYSTEMS RESEARCH, 3, 2014.
23. Kinam Park, Heuseok Lim
“Acquiring lexical knowledge using raw corpora and unsupervised clustering method” Cluster Computing, 9, 2013.
24. J.-K.Chang, Seungteak RyooJaechoon, Heuseok Lim
“Real-time vehicle tracking mechanism with license plate recognition from road images”
JOURNAL OF SUPERCOMPUTING, 7, 2013.
25. Jeachoon Jo, Kamuela Parker, Heuseok Lim
“A Lesson Plan Platform for Smart Education” Global Journal on Technology, Vol 4 (2013):
3rd World Conference on Innovation and Computer Science (INSODE-2013), 4, 2013.
26. Yun Sung-hyun, Heuseok Lim
“The Biometric based Mobile ID and Its Application to Electronic Voting” KSII
TRANSACTIONS ON INTERNET AND INFORMATION SYSTEMS, 1, 2013.
27. Kinam Park, Hyesung Jee, Taemin Lee, Soonyoung Jung, Heuseok Lim
“Automatic extraction of user’s search intention from web search logs” MULTIMEDIA
TOOLS AND APPLICATIONS, 11, 2012.
28. Jeachoon Jo, Youngwook Yang, Heuseok Lim
“Design of a structured plug-in smart education system” Lecture Notes in Electrical
Engineering, 1, 2012.
29. Heuseok Lim, Yu won hee, Yang Yeong-Wook, Park Kinam
“Sentiment-Property Extraction Using Korean Syntactic Features” Future Information
Technology, Application, and Service, 6, 2012.
30. Wonhee Yu, Doo-Soon Park, Taeweon Suh, Heuseok Lim
“Unsupervised Lexical Entry Acquisition Model based on Representation of Human Mental
Lexicon” Information, June 2011.

31. Lee, Saebyeok, Lim, Heuseok
“Brain-operated typewriter using a language prediction model,” KSII Transactions on Internet and Information Systems, The Korean Society for Internet Information, Oct, 2011.
32. Park, K., Jung, S., Lee, Y., Lee, C., & Heuseok Lim
“A Computational Model for simulating Korean Visual Word Recognition,” Journal of Information, Vol.14, No.8, 2011.
33. So-Young Park, Member, IEEE, Jeunghyun Byun, Hae-Chang Rim, Do-Gil Lee, and Heuseok Lim
“Natural language-based user interface for mobile devices with limited resources,” Consumer Electronics, IEEE Transactions on, November 2010, Vol.56, No.4, pp.2086-2092, 2010.
34. SungHyun Yun, Heuseok Lim, Young-Sik Jeong, SoonYoung Jung, Jae-Khun Chang
“The Biometric based Convertible Undeniable Multi-Signature Scheme to Ensure Multi-Author Copyrights and Profits,” WIRELESS PERSONAL COMMUNICATIONS, pp.0929-6212, April 2011. [Online First]
35. J.-K. Chang, Seungteak Ryoo and Heuseok Lim
“Real-time vehicle tracking mechanism with license plate recognition from road images,” Journal of Supercomputing, pp1-12, March 2011. [Online First]
36. Saebyeok Lee, Heuseok Lim
“Predicting Text Entry for Brain-Computer Interface”, Future Information Technology, pp 309~312, 13 January 2011.
37. Gao, C. , Lu, S. -L. L. , Suh, T. , Heuisoek Lim
“Field programmable gate array-based Haar classifier for accelerating face detection algorithm,” IET Image Processing, pp.1751-9659, June 2010.
38. Heuseok Lim
“Phonological Recoding in the Second Language Processing,” Lecture Notes in Computer Science, Vol.6019, No.4, pp.370-375, 2010.
39. Heuseok Lim, Heonchang Yu, Taeweon Suh
“Using Virtual Platform in Embedded System Education,” COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, 2010.
40. Kim G, Kim Y, Heuseok Lim, Kim H
“An MLP-based feature subset selection for HIV-1 protease cleavage site analysis,” Journal of Artificial intelligence in medicine, Vol.48, No.2-3, pp.83-89, 2010.
41. Saebyeok Lee, WonGye Lee, Hyeon-Cheol Kim, Soon-Young Jung and Heuseok Lim

- “A Personalized CALL system considering users cognitive abilities,” Lecture Notes in Computer Science, Vol.6019, No.4, pp.376-384, 2008.
42. Heuseok Lim, Kichun Nam, Hyungwook Yim, Changsu Park
“Mental representation and processing involved in comprehending Korean regular and irregular verb Eojeols: An fMRI and reaction time study,” Lecture Notes in Computer Science, Vol.4232, pp.247-254, 2006.
43. YouAn Kwon, Kinam Park, Heuseok Lim, Kichun Nam, SoonYoung Jeong
“Word Frequency Effect and Word Similarity Effect in Korean Lexical Decision Task and Their Computational Model,” Lecture Notes in Computer Science, Vol.4234, pp.331-340, 2006.
44. Heuseok Lim, Kichun Nam, Kinam Park, Sungho Cho
“A Computational Korean Lexical Access Model Using Artificial Neural Network,” Lecture Notes in Bioinformatics, Vol.4115, pp.693-701, 2006.
45. Kinam Park, Heuseok Lim, Kichun Nam, Hyeongwook Yim
“A computation model of Korean lexical processing,” Advances in Natural Computation, Proceedings, Vol.3610, pp.844-849, 2005.
46. Heuseok Lim
“A Computational Korean Mental Lexicon Model for a Cognitive-Neuro Scientific System,” Lecture Notes in Computer Science, Vol.3681, pp84-89, 2005.
47. So Young Park, Heuseok Lim, Yong Jae Kwak, Hae Chang Rim
“Feature-Based Korean Grammar Utilizing Learned Constraint Rules,” Computational Intelligence, Vol.21, No.1, pp.69-89, Blackwell, January 2005.
48. Heuseok Lim
“An Application of Information Retrieval Technique to Automated Code Classification,” Lecture Notes in Artificial Intelligence, Vol.3681, pp.90-96, 2005.
49. Heuseok Lim, Won Kyu Hoon Lee, Hyeon Chul Kim, Soon Young Jeong and Heon Chang Yu
“An Automatic Code Classification System by Using Memory-Based Learning and Information Retrieval Technique,” Lecture Notes in Computer Science, Vol.3689, pp577-583, 2005.
50. Hyungwook Yim, Heuseok Lim, Kinam Park, Kichun Nam
“A Computation Model of Korean Lexical Processing,” Lecture Notes in Artificial Intelligence, Vol.3610, pp.844-849, 2005.
51. Heuseok Lim, Kichun Nam, Yumi Hwang
“A Computational Model of Korean Mental Lexicon,” Lecture Notes in Artificial Intelligence, Vol.3480, pp.1129-1137, 2005.
52. Heuseok Lim

- “Improving kNN Based Text Classification with Well Estimated Parameters,” Lecture Notes in Computer Science, Vol.3316, pp.516-523, 2004.
53. Heuseok Lim
“Automated Classification of Industry and Occupation Codes Using Document Classification Method” Lecture Notes in Computer Science, Vol.3316, pp.827-833, 2004.
54. YouAn Kwon, Kinam Park, Heuseok Lim, Kichun Nam, SoonYoung Jeong
“Word Frequency Effect and Word Similarity Effect in Korean Lexical Decision Task and Their Computational Model,” Lecture Notes in Computer Science, Vol.4234, pp.331-340, 2003.
55. Sang Bum Kim, Hee-Chang Rim, Heuseok Lim
“Effective Methods for Improving Naive Bayes Text Classifiers,” Lecture Notes in Computer Science, Vol.2417, No.2, pp.414-423, 2002.
56. Do-Gil Lee, Sang-Zoo Lee, Hae-Chang Rim, Heuseok Lim
“Automatic word spacing using hidden Markov model for refining Korean text corpora”, COLING '02 Proceedings of the 3rd workshop on Asian language resources and international standardization , Vol.12, pp.1~7, 2003.
57. Jin-Dong Kim, Heuseok Lim, Hae-Chang Rim
“Twoply Hidden Markov Model: A Korean POS Tagging Model Based on Morpheme-Unit with Eojeol-Unit Context,” International Journal of Computer Processing of Oriental Languages, Vol.12, No.1, pp.5-29, 1998.
58. Yuna Hur, DongYub Lee, Kuekyeng Kim, WonHui Yu, Heuseok Lim
“A System for Automatic Classification of Traditional Culture Texts” Korea Convergence Society, Vol.8, No.12, pp.39-47, [in Korean]
59. Kuekyeng Kim, Yuna Hur, Gyeongmin Kim, WonHui Yu, Heuseok Lim
“Detail Focused Image Classifier Model for Traditional Images” Korea Convergence Society Vol.8, No.12, pp.85-92, [in Korean]
60. Yun You-Dong, Jaechoon Jo, Yun-A Hur, Heuseok Lim
“A Comparative Analysis of Cognitive Change about Big Data Using Social Media Data Analysis” Korea Information Processing Society Review, Vol.6, No.6, pp.371~378, 2017. [in Korean]
61. DongYub Lee, Jaechoon Jo, Heuseok Lim
“User Sentiment Analysis on Amazon Fashion Product Review Using Word Embedding” Journal of the Korea Convergence Society, Vol.24, No.1, pp.385~386, 2017. [in Korean]
62. YouDong Yun, YeongWook Yang, Hyesung Ji, Heuseok Lim

- “Development of Smart Senior Classification Model based on Activity Profile Using Machine Learning Method” Korea Convergence Society, Vol.8, No.1, pp.25~34, 2017. [in Korean]
63. Yun You-Dong, Yang Yeong-Wook, Heuseok Lim
“A SNS Data-driven Comparative Analysis on Changes of Attitudes toward Artificial Intelligence” Journal of Digital Convergence, Vol.14, No.12, pp.173~182, 2016. [in Korean]
64. Yun You-Dong, Hye-sung Ji, Heuseok Lim
“A Study on the Analysis of Factors that Influence Internet Usage of Adolescence” The Journal of Korean association of computer education, Vol.19, No.5, pp.55~71, 2016. [in Korean]
65. Jinwon Kang, Sooleen Nam, Heuseok Lim , Kichun Nam
“ERP indices of Korean derivational prefix morphemes separated from the semantic and orthographic information” Korean Journal of Cognitive and Biological Psychology, Vol.28, No.3, pp.409~430, 2016. [in Korean]
66. An Ji-Hye, Yun You-Dong, Heuseok Lim
“The Life Satisfaction Analysis of Middle School Students Using Korean Children and Youth Panel Survey Data” The Journal of Digital Convergence, Vol.14, No.2, pp.197~208, 2016. [in Korean]
67. Yu Wonhee, Heuseok Lim
“The Study of Lexical Statistics Analysis for Elementary School Textbook: Focusing on Comparing the SEJONG Corpus in Korean” The Journal of Korean association of computer education, Vol.18, No.1, pp.99~108, 2015. [in Korean]
68. Soorin Nam, Heuseok Lim, Kichun Nam, Yeonji Baik
“Different Time Courses of Orthographic, Morphological, and Semantic Activation during Korean Prefixed Derivational Word Recognition” Korea Psychological Association [in Korean]
69. Jungbea Park, Kinam Park, Heuseok Lim
“Development of the Potential Query Recommendation System using User’s Search History” The Journal of digital policy & management [in Korean]
70. Yang Yeong-Wook, Lee Sae-Byeok, Heuseok Lim
“Design and Development of the Second language Proficiency Method based on Cognitive Ability of Learner” The Journal of digital policy & management [in Korean]
71. Heasuk Han, Heuseok Lim
“Analysis for Teaching and Learning Methods in K-12 Smart Education” The Journal of digital policy & management [in Korean]

72. Heajung Kim, Heuseok Lim
“Exploring on Digital Textbooks for Teachers and Students” The Journal of digital policy & management [in Korean]
73. Wonbam Yoon, Kinam Park, Heuseok Lim
“A Study on Smart Knowledge Sharing System with Friends” The Journal of digital policy & management [in Korean]
74. Hyesung Ji, Kinam Park, Heuseok Lim
“Development of Information Visualization Tool using Knowledge Representation” The Journal of digital policy & management [in Korean]
75. Jo JaeChoon, Heuseok Lim
“A Conceptual Model of Smart Education Considering Teaching-Learning Activities and Learner’s Characteristics” The Journal of Korean association of computer education, Vol.15, No.4, pp.41~49, 2012. [in Korean]
76. Ji Hye-Sung, Joh Joon-Hee, Heuseok Lim
“A Detection Method of Similar Sentences Considering Plagiarism Patterns of Korea Sentence,” Korea Association of Computer Education, Vol.13, No.6, pp.79~89, 2011. [in Korean]
77. Yang Yeong-Wook, Heuseok Lim
“The Development of Serious Game for the Cognitive Ability Training using Smart Device”, Korea Game Society, Vol.11, No.6, pp.23~31, 2011. [in Korean], 2011.01
78. SaeByeok Lee, WonGyu Lee, Hyeon-Cheol Kim, Soon-Young Jung, Heuseok Lim
"Development of Foreign Language Fluency Diagnosis Tools For Brain Scientific Language Learning“ Korea Association of Computer Education, Vo.113, NO.1, pp.37~44, 2010. [in Korean]
79. You won hee, Taeweon Suh, Heuseok Lim
"The automatic Lexical Knowledge acquisition using morpheme information and Clustering techniques “ Korea Association of Computer Education, Vol.13, NO.1, pp.65~73, 2010. [in Korean]
80. Dai-Young Kwon, Heuseok Lim, WonGyu Lee, Hyeon-Cheol Kim, SoonYoung Jung, Taeweon Suh, Kichun Nam
“A Personalized English Vocabulary Learning System Based on Cognitive Abilities Related to Foreign Language Proficiency” KSII TRANSACTIONS ON INTERNET AND INFORMATION SYSTEMS, Vol.4, No.4, pp595-617, 2010. [in Korean]
81. Soon-Young Jung, Taeweon Suh, Hyesung Jee, Kinam Park, Heuseok Lim

- "Automatic Extract User Intention from Web Seragh Log" Korea Association of Computer Education, Vol.12, NO.6, pp.21~32, 2009. [in Korean]
82. Heuseok Lim, Sung-Bom Pyun, Chang Hoan Lee, Jihyang Oh
"The Effects of Working Memory Load on Word Frequency" The Korea Academia-industrial cooperation Society, Vol.10, No.3, pp.567~671, 2009. [in Korean]
83. Heuseok Lim, Sunghoon Hong, Kigon Ryu
"Human Powered Question and Answering System by using Real-Time : rPodo System " The Korea Academia-industrial cooperation Society, Vol.9, No.3, pp.721~726, 2008. [in Korean]
84. Heuseok Lim
"An Implementation of Intelligent World Replay Game Considering Characteristics of Real World Language " The Korea Academia-industrial cooperation Society, Vol.9, No.1, pp.122~128, 2008. [in Korean]
85. Kinam Park, Heuseok Lim
"Viewpoint calculation time in word recognition model and the phonological neighborhood effect neighbors" The Korea Academia-industrial cooperation Society, Vol.8, No.4, pp.803~809, 2007. [in Korean]
86. Heuseok Lim
"Korean vocabulary automatic acquisition system" The Korea Academia-industrial cooperation Society, Vol.8, No.5, pp.1087~1091, 2007. [in Korean]
87. Heuseok Lim
"Viewpoint calculation time in word recognition model and the phonological neighborhood effect neighbors" The Korea Academia-industrial cooperation Society, Vol.8, No.4, pp.803~809, 2007. [in Korean]
88. Heuseok Lim
"An Example-based Korean Standard Industrial and Occupational Code Classification " The Korea Academia-industrial cooperation Society, Vol.7, No.4, pp.594~601, 2006. [in Korean]
89. Heuseok Lim
"Hidden Markov Model and Boundary Layer Named Entity Recognition Using Information" The Korea Academia-industrial cooperation Society, Vol.7, No.2, pp.182~187, 2006. [in Korean]
90. Kinam Park, Heuseok Lim, Kichun Nam,
"Design and Implementation of Computational Model Simulating Language Phenomena in Lexical Decision Task" Korea Association of Computer Education, Vol.9, No.2, pp.89~100, 2006. [in Korean]

91. Heuseok Lim
"An Automatic Coding System of Korean Standard Industry / Occupation Code Using Example - based Learning" The Korea Contents Association, Vol.5, No.4, pp.169~179, 2005. [in Korean]
92. Heuseok Lim, Kun-Hee Han,
"Korean Sentence Boundary Detection Using Memory-based Machine Learning" The Korea Contents Association, Vol.4, No.4, pp.133~139, 2005. [in Korean]
93. Heuseok Lim,
"An automated Classification System of Standard Industry and Occupation Codes by Using Information Retrieval Techniques" Korea Association of Computer Education, Vol.7, No.4, pp.51~60, 2004. [in Korean]
94. Do-Gil Lee, Sang-Zoo Lee, Heuseok Lim, Hae-Chang Rim,
"Two Statistical Models for Automatic Word Spacing of Korean Sentences" Korean Institute of Information Scientists and Engineers, Vol.30, No.4, pp.358~372, 2003. [in Korean]
95. Jae-Bum Jung, Heuseok Lim, Kichun Nam
"Korean compound noun form of the morphological representation" Korean speech-language & Hearing Association, Vol.12, No.1, pp.177~196, 2003. [in Korean]
96. Hae-Chang Rim, Young-Shin Lee, Heuseok Lim
"A BM25 based Passage Retrieval System for Developing an Efficient Question and Answering System" Korea Association of Computer Education, Vol.6, No.4, pp.23~30, 2003. [in Korean]
97. Heuseok Lim, Kichun Nam,
"Improving of kNN - based Korean text classifier by using heuristic information" Korea Association of Computer Education, Vol.5, No.3, pp.37~46, 2002. [in Korean]
98. Heuseok Lim
"Development and implementation of an automatic document classifier" Korean Society For Internet information Vol.3, No.3, pp. 48~56, 2002. [in Korean]
99. Jae-Bum Jung, Heuseok Lim, Kichun Nam,
"Comparison of the frequency in Korean Corpus" Korean Society of Logopedics and Phoniatics, Vol.1, pp.93~96, 2002. [in Korean]
100. Jin-Dong Kim, Heuseok Lim, Hae-Chang Rim,
"Twoply HMM: Considering Korean Korean POS tagging model of morpheme" Korean Institute of Information Scientists and Engineers, Vol.24, No.12, pp.1502-1512, 1997. [in Korean]
101. Heuseok Lim, Jin-Dong Kim, Hae-Chang Rim,
"Using transformation rules, words are Korean speech tagger tags" Korean Institute of

Information Scientists and Engineers (B), Vol.24, No.6, pp.673-684, 1997. [in Korean]

102. Heuseok Lim, BoHyun Yun, Hae-Chang Rim,

“Effective exclusion Korean Morphological Analyzer Using information” Korean Institute of Information Scientists and Engineers, Vol. 22, No. 6, pp.957-964, 1995. [in Korean]

Conference Publications

1. Seolhwa Lee, Heuseok Lim
“Comparing Working Memory between Expert Programmers and Novice Programmers” The 4th International Conference for Small & Medium Business, 2017
2. Jeahong Kim, Jinwon Kang, Kichun Nam, Heuseok Lim
“Does pause inserted sentence help L2 listener to understand the context better?” Annual International Conference on Cognitive and Behavioral Psychology, 2, 2015.
3. Yeong Wook Yang, Won Hee Yu, Heuseok Lim
“Adaptive Learning System using Real-time Learner Profiling” Journal of Digital Convergence, 2, 2014.
4. Saebyeok Lee, JaeChoon Jo, SangYep Nam, Heuseok Lim
“The EEG-based Feature for Emotion Recognition” KSII The International Conference on Internet(ICONI), Dec. 2011.
5. Doo-Soon Park, Wonhee Yu, Kinam Park, Heuseok Lim
“A Lexical Knowledge Acquisition Model Using Unsupervised Learning Method,” Proceedings of APIC-IST & ICONI 2010, Dec.2010.
6. Lim, Heui Seok , Lee, Sae-Byuk
“Design of a brain operated korean typewriter using the language prediction model,” Proceedings of APIC-IST & ICONI 2010, Dec.2010.
7. Lim, Heui Seok , Park, Ki-Nam , Jung, Soon Young, Nam, Sangyep, Lee, Taemi
“Extracting Search Intentions from Web Search Logs,” Proceedings of International Conference on Information Technology Convergence and Services, Aug.2010.
8. Wonhee Yu, Kinam Park, Soonyoung Jung, Heuseok Lim
“Acquiring Korean Lexical Entry from a Raw Corpus,” Proceedings of International Conference on Information Technology Convergence and Services, Aug.2010.
9. Kinam Park, Taemin Lee, Soonyoung Jung, Heuseok Lim, Sangyep Nam
“Extracting Search Intentions from Web Search Logs,” Proceedings of International Conference on Information Technology Convergence and Services, Aug.2010.

10. DaiYoung Kwon, Saebyeok Lee, Hyeonchul Kim, Heuseok Lim, WonGyu Lee, SoonYeong Jung, KiChun Nam
"A Computer Assisted Language Learning system based on Principles of HUMAN Language Processing: The English Brain Enhancement System," Proceeding of APIC-IST & ICONI 2009, pp.319~324, 2009.
11. KiNam Park, SoonYeong Jung, Heuseok Lim
"A Connectionist Model of Korean Visual Word Recognition," Proceeding of APIC-IST & ICONI 2009, 2009.
12. Heuseok Lim, Hyeonchul Kim
"Adaptive User Profile Management for Community-based Question Answering System," Proc. of APIC-IST & ICONI 2009, pp.37~41, 2009.
13. KiNam Park, WonHee You, Heuseok Lim, SoonYeong Jung
"Neuro-Cognitive Computational Model of Automatic Lexical Acquisition," International Symposium on Control and Automation, 2008.
14. Heuseok Lim, Ki-Chum Nam, Seong-Bom Pyun, Chang-Whan Lee
"A Cognitive-Neuro Computational Lexical Acquisition Model," Proceeding of International Conf. on Cognitive Neurodynamics, 2007.
15. Ki-Nam Park, Ki-Gon Lyu, Won-Hee Yu, Heuseok Lim,
"A Computational Model of Korean Lexical Decision Task and Its Comparative Analysis by Using Connectionist Model," Third International Conference on Natural Computation, pp.511-515, 2007
16. Kwon Youan, Park Kinam, Heuseok Lim, Nam Kichun
"The Phonological Syllable Plays a Role in Lexical Access in Korean Visual Word Recognition," ICNC 2007. Third International Conference on, 2007.
17. ChangSu Park, JongHye Han, Heuseok Lim, KiChun Nam,
"The Cortical Activation Associated with Emotional and Linguistic Processing Involved in Word Recognition," OHBM 11th Annual Meeting, 2006
18. Youan Kwon, Clifford.K.Cho Heuseok Lim, KiChun Nam,
"The Inhibition Effect of the Phonological Neighborhood Size In Word Recognition: Behavioral and fMRI Study," OHBM 11th Annual Meeting, 2006
19. Heuseok Lim, Hyung-Wook Yim, Ki-Chum Nam,
"Mental representation of the morphemes involved in Korean noun and verb Eojeols," Proceeding of the Int. Conference on Cognitive Science, pp.299, 2003.
20. Do-gil Lee, Hae-Chang Lim, Heuseok Lim,

- "A Syllable based word recognition model for Korean noun extraction," Proceeding of Annual meeting of the ACL, pp.471-478, 2003.
21. Heuseok Lim,
"An improved kNN Learning based Korean text classifier with heuristic information," Proceeding of ICONIP, pp.731-735, 2002.
 22. Do-gil Lee, Sang-Zoo Lee, Hae-Chang Lim, Heuseok Lim,
"A comparative evaluation of Korean text categorization based on KNN Learning," Proceeding of the 3rd workshop on Asian Language Resources and Int. Standardization, pp.51, 2002.
 23. Sang-Bum Kim, Hae-Chang Rim, Heuseok Lim
"A new method of parameter estimation for multinomial naive bayes text classifiers," SIGIR '02 Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval, 2002.
 24. Heuseok Lim,
"Automatic word spacing using hidden morrow model for refining Korean text corpora" Proc. of the International Conference on Artificial Intelligence, pp.372, 2002.
 25. Heuseok Lim, Rim, H. C., Lee, W. K., Ryu, H. C., Kim, H.,
"An Automated Coding System for Korean Standard Industrial and Occupational Classification" The proceeding of 19th International Conference on Computer Processing of Oriented Languages (ICCPOL), pp.278-281, 2001.
 26. Heuseok Lim,
"Introduction to Special Issues on Computational Lexical Analysis of Korean," Proceeding of 7th International Conference on Neural Information Processing, Vol.1, pp.593-597, 2000.
 27. Heuseok Lim, Won-Ho Ryu, Hae-Chang Rim,
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 28. Heuseok Lim, Hae-Chang Rim,
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 29. Heuseok Lim, Dae-Ho Bak, Hae-Chang Rim,
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 30. Won-Ho Ryu, Sang-Zoo Lee, Hae-Chang Rim, Heuseok Lim,

"A Korean Part-of-Speech Tagging System for Minimizing Human Intervention and Maintaining Tagging Consistency" Proc. of 5th Natural Language Processing Pacific Rim Symposium, pp.62-66, 1999.

31. Jin-Dong Kim, Heuseok Lim, Hae-Chang Rim,
"Twoply Hidden Markov Model: A Korean POS Tagging Model Based on Morpheme-Unit with Eojeol-Unit Context" Proc. of the International Conference on Computer Processing of Oriental Language(ICCPOL-97), pp.456-460, 1997.
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"A Korean Part-of-Speech Tagger using Transformation-based Error-driven Learning" Proc. of the International Conference on Computer Processing of Oriental Language (ICCPOL-97), pp.456-460, 1997.
33. Heuseok Lim, Jin-Dong Kim, Hae-Chang Rim,
"A Korean Transformation-based Part-of-Speech Tagger with Lexical Information of mistagged Eojeol" Proc. of the 2nd Korea-China Joint Symposium on Oriental Language Computing (KCOLC-96), pp.119-124, 1996.
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35. Jaechoon Jo, Heuseok Lim
"Development of an Online Education Platform for Flipped Classroom" KIISE(Korean Institute of Information Scientists and Engineers) pp.558-559 , 2017. [in Korean]
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"A Study on Comparative Analysis with High-Frequency Word and Keyword using Word Embedding" KIPS(Korea Information Process Society), Vol.24, No.1, pp.385-386, 2017. [in Korean]
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39. You won hee, Heuseok Lim

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40. Yeong Wook Yang, Heuseok Lim
“Using smart diagnostic system is the ability” KSII (Korean Society For Internet information), 2010. [in Korean]
41. Jaechun cho, Heuseok Lim
“Unplugged Contents Design of Smartphone for Education of Informatics” KSII (Korean Society For Internet information), 2010. [in Korean]
42. Saebyeok Lee, Heuseok Lim
“Brain Scientific Developments of Foreign Language Fluency Diagnosis Tools” KSII (Korean Society For Internet information), 2009. [in Korean]
43. You won hee, Heuseok Lim
“A design of Lexical-Knowledge Acquisition model based on unsupervised learning” KSII (Korean Society For Internet information), 2009. [in Korean]
44. Yeong Wook Yang, Heuseok Lim
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45. Heuseok Lim, Hye-Sung Ji
“User Click Log Analysis Using the user search intention” The Korea Academia-industrial cooperation Society, 2009. [in Korean]
46. Heuseok Lim, Saebyeok Lee
“Movement-related EEG signal generator designed for Korean Using” The Korea Academia-industrial cooperation Society, 2009. [in Korean]
47. Heuseok Lim, Sunghoon Hong, Kigon Ryu
“Human Powered Question and Answering System by using Real-Time Interactive Communication : rPodo System” The Korea Academia-industrial cooperation Society, 2007. [in Korean]
48. Heuseok Lim, Kinam Park, Kichun Nam,
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 52. Chang-Soo Park, Jong-Hye Han, Heuseok Lim, Kichun Nam
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 60. Heuseok Lim, Jae Wook Lee, Hyen Kym Oh, Kichun Nam,
"Korean words are based Information Processing Model for Cognitive Neuroscience," Korean Brain Society, 2002. [in Korean]
 61. Kichun Nam, Heuseok Lim,

- "Simulation Model of Korean words," Acoustical Society Korea, 2002. [in Korean]
62. Kichun Nam, Yumi Hwang, Yuan Kwon, Heuseok Lim
"Morphological Characteristics of Verbs in Korean Information Processing," The Korean Society for Cognitive Science pp.137~143, 2002. [in Korean]
63. Kichun Nam, Heuseok Lim, Jae Wook Lee, Hyen Kym Oh
"Nanseojeung calculate the structure of lexical processing in the case shown ," Korean Brain Society pp.93~94, 2002. [in Korean]
64. Kichun Nam, Yumi Hwang, Yuan Kwon, Heuseok Lim
"Morphological Characteristics of Verbs in Korean Information Processing (I): information processing prototype," Korean Brain Society, 2002. [in Korean]
65. Heuseok Lim,
"Using information retrieval techniques Industry / Occupation Code List Tool," Korea Multimedia Society, 2001. [in Korean]
66. Heuseok Lim, Cheol-Joong Kwon, ae-Woon Lee, Ki-Eun Oh,
"Younghan for the N-best speech machine translation Tagger," Hangul and Korean Information Processing pp.15-19, 1998. [in Korean]
67. Heuseok Lim, Jin-Dong Kim, Hae-Chang Rim,
"Linguistic knowledge and statistical information using the complementary characteristics of speech tagging," Hangul and Korean Information Processing, pp.102-108, 1997. [in Korean]
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"Rule-based lexical rules for Korean POS Tagging acquisition scheme to minimize the manual," Korean Institute of Information Scientists and Engineers, 1997. [in Korean]
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71. Heuseok Lim, Jin-Dong Kim, Hae-Chang Rim,
"Considering Korean POS Tagging based transformation rules," Artificial Intelligence Teams pp.3-10, 1996. [in Korean]
72. BoHyun Yun, Heuseok Lim, Hae-Chang Rim,
"Analysis of Korean compound nouns using statistical information " Korean Institute of Information Scientists and Engineers pp.925-928, 1995. [in Korean]

73. Sang-Ju Lee , Heuseok Lim, Hae-Chang Rim,
“Using Hidden Markov Model Two Phase Korean POS Tagging” Hangul and Korean
Information Processing pp.305-312, 1994. [in Korean]
74. Heuseok Lim, Hae-Chang Rim,
“Stemming of words are generated in step Analysis Method Ambiguity” Korean Institute of
Information Scientists and Engineers Vol.20, No.1, pp.773-776, 1993. [in Korean]

Books and Book chapters

- 2017.03 Computational Thinking for Novice, Human Science [in Korean]
- 2011.09 Search Engines : Information Retrieval in Practice [Translated in Korean]
- 2010.08 Please help! We've got the iPhone 4 [in Korean]
- 2010.05 Please help! We've got the iPhone 3 [in Korean]
- 2010.03 Data Structures and Algorithm Analysis in C++ [Translated in Korean]
- 2009.04 The Handbook of East Asian Psycholinguistics, Edited by Chungmin Lee, Cambridge
University Press, 2009

COMMITTEES

- 2017.02~2018.01 The International Conference on Interdisciplinary research on Computer Science,
Psychology, and Education (ICICPE), General Chair
- 2015.07 The 5th International Conference on Convergence Technology, Program Committee
- 2013.07~2014.07 The International Conference on Convergence Technology, Program Chair
- 2010.03~2012.06 The 50th Annual Meeting of the ACL (ACL2012), Local Arrangements Committee
- 2011.03 ~ 2011.12 International Conference on Internet (www.iconi.org), Program Chair
- 2010.08 ~ 2011.06 The 6th Europe Asia Pacific International Conference on Information Science and
Technology, (EAPIC-IST2011), Program Chair
- 2010.08 ~ 2010.10 Conference of Korean Association of Computer Education, Program Chair
- 2010.03 ~ 2010.12 International Conference on Internet (www.iconi.org), Workshop Chair
- 2009.03 ~ 2009.12 International Conference on Internet (www.iconi.org), Publication Chair
- 2009.12 ~ 2009.12 The Korea Academia-industrial cooperation Society, Direct Assistance Chair
- 2009.10 ~ 2009.12 Korean Society for Internet Information Conference, General Chair
- 2009.12 ~ Present Korea Copyright Commission, Advisory Member
- 2009.03 ~ 2010.02 Korean Society for Internet information, Editorial Board

Invited Talks and Presentations (in Recent 3 years)

February 2018, "AI & Industry Trends, SERI", 23 Feb. Samsung Economic Research Institute

February 2018, "NLP with Deep Learning", 20 Feb. KOFST

January 2018, "NLP with Deep Learning", 29 ~ 31 Jan. Hyundai Motor

November 2017, "NLP & Deep Learning: Deep Learning for NLP", SEOULTECH University

June 2017, "The Present and Future of Artificial Intelligence", Samsung Electronics Gumi Business Place

April 2017, "A.I. Lecture: Fashion Data Mining", Seminar on the Strategy for the Textile Fashion Industry in the 4th Industrial Revolution

February 2017, "Introduction to Computational Korean Language Processing", Plaza Hotel COEX

November 2016, "Revisioning Artificial Intelligence : A Bright Future? A Blight Future?", Baekseok University

October 2016, "Intelligent UI/UX for Smart Seniors", Invited Speaker at International Conference on Science in Information Technology

September 2016, "A.I Technology and Future Society: A.I. Friend or Foe?", Samsung Electronics

August 2016, "A.I Technology and Future Society", Samsung Electronics

August 2016, "Artificial Intelligence and Future Society in the Age of Centenarians", Miraesum Seongnam Senior Complex

September 2013, "Innovative Smart Classes in Korea: Outcomes and Concerns", Invited Speaker at Mobile Learn Asia 2013. slide / Radio interview

July 2011 "Functional Brain Imaging Methods and its Application to ICT Research", Ministry of Culture, Sports and Tourism

July 2011 "Introduction to Brain Computer Interfaces" Seminar in Korea Information Processing Society

June 2011 "Using Smart Devices on Smart Learning," Faculty Summit of Korea University

Apr 2011 "Converging Technologies of Brain Science and ICT", Korean E-learning Association

Mar 2010 "Brief Introduction to Information Retrieval," SKT Company

June 2010 "Rethinking Computer games," Workshop on Computer Game and its Application

July 2010 "Social Search and People-powered Search," Workshop on Internet Application

Apr 2009 "Brain-Computer Interface," Korea University Hospital

Aug 2009 "A Brain-based English Learning System," Seminar in HANSOL Ltd.

TEACHING (in Recent 5 years)

Natural Language Processing Applications, 2017

Covers the basics of Deep Learning technology for natural language processing along while focusing on recent research papers to understand latest trends in advanced technology.

Educational Data Mining, 2014

Review the current techniques for educational data mining. Understanding fundamental principles of educational data mining and its applications.

Machine Learning, 2014-2016

This class covers recent new machine learning techniques and its application in data science, education, and classification task area.

Information Retrieval, 2013-2015

This class covers basic theories of information retrieval and techniques to implement a practical information retrieval engine. The topics are information retrieval models, text processing techniques, indexing techniques, information theories, and applications of IR, which are vital to data mining and big data analysis.

Programming Languages, 2012-2014

Discussion of the important issues in the specification, design and implementation of programming languages with emphasis on imperative programming. The objective of the course is not to master a set of programming languages but rather the emphasis is on evaluating alternative ways of providing various programming language features, and studying the trade-off involved.

Natural Language Processing, 2013

This class covers the advanced topics in natural language processing including statistic language processing, language modeling, and machine translation.

Contract and Grant Support

Title: Development of a cognitively responsive customized UI / UX technology for smart seniors

PI: Kinam Park

Duration: May 2016 – December 2018

Amount: \$2,500,000

Title: Distribution and diffusion of of personal and collective intelligence as Digitalized Contents

PI: WonHui Yu

Duration: March 2014 – February 2017

Amount: \$1,500,000

Title: Research and development of a recommendation model of personalized contents consumption route considering user preference changes

PI: YeongWook Yang

Duration: June 2016 – May 2018

Amount: \$500,000

Title: Personalized Search using Users' Click Thorough Data
PI : Heuseok Lim
Duration: May 2009 – April 2012.
Amount: \$300,000

Title: The study on the neuro-cognitive processes and neural network of the Korean visual word recognition
PI : Chanwhan Lee
Duration: November 2009 – July 2012.
Amount: \$200,000

Title: Development of a Lexical Analyzer considering characteristics of SNS Data
PI : Heuseok Lim
Duration: Dec. 2010 – May 2011.
Amount: \$40,000

Title: Technology of the Emotion Measurement and Standardization on Functional Contents
PI : Kichun Nam
Duration: May 2010 – Mar. 2011.
Amount: \$1,800,000

Title: Development of a CALL System based on Brain Scientific Principles
PI : Wonkyu Lee
Duration: Sep. 2008 – Aug. 2009.
Amount: \$300,000

Title: A Detection Method of Similar Sentences for Plagiarism System
PI : Heuseok Lim
Duration: June. 2008 – May 2009.
Amount: \$10,000

Title: The study on the neuro-cognitive processes and neural network of the Korean visual word recognition
PI : Kichun Nam
Duration: Apr. 2002 – Mar. 2008.
Amount: \$500,000

Title: An Automatic User Classification using User's Profile for a Social Search
PI : Heuseok Lim
Duration: May. 2007 – Apr. 2008.
Amount: \$40,000

Industrial Research Experience

Professional Researcher, Samsung Advanced Institute of Technology (SAIT), 1997-1999. My work at SAIT was to develop a lexical analyzer of English which was used for an automatic English-Korean

machine translation system.

Registered Patents

Method and Apparatus for News Judgment Using Collective Intelligence (International), 2017

Food delivery intermediation methods and apparatus (International), 2017

Apparatus and Method for providing a customized Banner Advertising Platform (International), 2016

Apparatus and method for providing personalized UX / UI for broadcasting standard (International), 2016

A controller user interface providing device and a room which are changed according to user information and a content property (International), 2016

Difficulty of program using biometric data and level of programmer prediction Classification system (International), 2016

Emotion-Based Sound Control Device and Control Method (International), 2017

Method and apparatus for evaluating the flatness of digital contents (International), 2016

A Method for Stabilizing Deep Artificial Neural Network Using Residual Network (International), 2016

Online Open Textbook (MOOT) Model Development System (International), 2016

Minimum Learning Judgment Method and Minimum Learning Judgment Device (International), 2016

Methods and apparatuses for sharing experiences based on the Internet (International), 2016

Method and apparatus for customized movie screening using group emotion (International), 2016

Internet-based loan management method and apparatus for objects (International), 2016

Things Internet-based smart pots and management system (International), 2016

Internet based smart chair and seat posture analysis method, smart chair management apparatus and method thereof (International), 2016

Method and apparatus for dream interpretation using collective intelligence (International), 2015

Method and system for automatic creation of learning courses (International), 2015

Attention-determining system and method for online learners (International), 2015

How to find a policy based on user participation (International), 2015

How to Automatically Organize Humanities Information (International), 2015

Method and system for collecting tag information of digital contents (International), 2015

How to create a user terminal profile (International), 2015

Task-based tagging method and system for digital learning contents (International), 2015

Emotion sharing method and system using output display, emotional game method using output

Display and Systems (International), 2014

How to recommend a mentor using electronic desk (International), 2014

Intelligent Learning Management Method (International), 2014

Financial fraud prevention methods and systems (International), 2013

How to Build Wisdom (International), 2013

How to Automatically Recommend User-Customized Applications (International), 2013

Cognitive abilities measuring device and method (International), 2011

A device and method for measuring the personal tendency based on brain waves (International), 2011

Emotional response measuring device and measuring method (International), 2011

Method and apparatus for computer game using EEG signal (International), 2010

Learning system and method based on learners' cognitive ability (International), 2009

A system and method for generating learning tasks for foreign language learners (International), 2009

Cognitive Skill Diagnosis System and Method for Foreign Language Learners (International), 2009

Customized content recommendation system for the elderly (Domestic), 2018

Smart senior online activity based profile design (Domestic), 2018

Cognitive Response Modeling for Smart Senior (Domestic), 2017

Knowledge marketplace technology development for customized intelligence extension of smart machine (Domestic), 2017

Building and sharing knowledge and trading systems using smart objects and agents (Domestic), 2017

Big data-based management fee calculation and tenant participation / sharing / opening and calculation method (Domestic), 2016

Similar Interest User Detection and Clustering Using Marking Behavior of Digital Highlighter Pens and Social Networking Method and Apparatus Using It (Domestic), 2014

Smart social search device and method using collective intelligence in SNS (Domestic), 2011

Technology Transfers Agreements

Korean Object Identification System Using Deep Learning Technique, February 2018

Korean Object Identification System Using Deep Learning Technique, December 2017

Content recommendation system using deep learning technique, February 2017

System and method for performing learning tasks for foreign language learners (10-1089329), November 2016

Multi-modal information indexing technology in video, October 2016

Recommendation system using user contents consumption information, March 2016

Recommendation model using the hysteresis Markov model, March 2016

Online Collaborative Learning Platform, September 2015

Search technology dedicated to digital content, September 2015

Search technology dedicated to digital content, January 2015

Online Collaborative Learning Platform, January 2015

Responsive web-based social learning service platform and 1 other, February 2014