Curriculum Vitae

Heuiseok 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, Heuiseok Lim

   "A systematic review of data-driven approaches in player modeling of educational games" Artificial Intelligence Review, 2018, Online

2. Jaechoon Jo, Wonhui Yu, Kyu Han Koh, Heuiseok 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)

3. Danial Hooshyar, Moslem Yousefi, Heuiseok 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 Heuiseok Lim

   "Development and Evaluation of a Game-based Bayesian Intelligent Tutoring System for Teaching Programming" Journal of Educational Computing Research, 2017, Online

5. Hyesung Ji, Youdong Yun, Seolhwa Lee, Kuekyeng Kim, Heuiseok Lim

   "An adaptable UI/UX considering user's cognitive and behavior information in distributed environment" Cluster Computing, July, 2017 (online)

6. Aram So, Danial Hooshyar, Kun Woo Park, Heuiseok 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, Heuiseok 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)

8. Youdong Yun, Danial Hooshyar, Jaechoon Jo, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok Lim

"Predicting Second Language Proficiency Level Using Linguistic Cognitive Task and Machine Learning Techniques" WIRELESS PERSONAL COMMUNICATIONS, 1, 2016

16. Sunghyun Yun, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok Lim

"An Integrated Teaching and Learning Assistance System Meeting Requirements for Smart Education" Wireless Personal Communications, 4, 2014

22. Kinam Park, Heuiseok Lim

"A computational model explaining language phenomena on Korean visual word recognition" COGNITIVE SYSTEMS RESEARCH, 3, 2014.

23. Kinam Park, Heuiseok Lim

"Acquiring lexical knowledge using raw corpora and unsupervised clustering method" Cluster Computing, 9, 2013.

24. J.-K.Chang, Seungteak RyooJaechoon, Heuiseok Lim

"Real-time vehicle tracking mechanism with license plate recognition from road images" JOURNAL OF SUPERCOMPUTING, 7, 2013.

25. Jeachoon Jo, Kamuela Parker, Heuiseok 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, Heuiseok 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, Heuiseok Lim

"Automatic extraction of user's search intention from web search logs" MULTIMEDIA TOOLS AND APPLICATIONS, 11, 2012.

28. Jeachoon Jo, Youngwook Yang, Heuiseok Lim

"Design of a structured plug-in smart education system" Lecture Notes in Electrical Engineering, 1, 2012.

29. Heuiseok 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, Heuiseok Lim

"Unsupervised Lexical Entry Acquisition Model based on Representation of Human Mental Lexicon" Information, June 2011.

31. Lee, Saebyeok, Lim, Heuiseok

    "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., & Heuiseok 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 Heuiseok 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, Heuiseok 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 Heuiseok 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, Heuiseok 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. Heuiseok Lim

    "Phonological Recoding in the Second Language Processing," Lecture Notes in Computer Science, Vol.6019, No.4, pp.370-375, 2010.

39. Heuiseok Lim, Heonchang Yu, Taeweon Suh

    "Using Virtual Platform in Embeded System Education," COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, 2010.

40. Kim G, Kim Y, Heuiseok 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 Heuiseok Lim

"A Personalized CALL system considering users cognitive abilities," Lecture Notes in Computer Science, Vol.6019, No.4, pp.376-384, 2008.

42. Heuiseok 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, Heuiseok 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. Heuiseok 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, Heuiseok Lim, Kichun Nam, Hyeongwook Yim
"A computation model of Korean lexical processing," Advances in Natural Computation, Proceedings, Vol.3610, pp.844-849, 2005.

46. Heuiseok 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, Heuiseok 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. Heuiseok Lim
"An Application of Information Retrieval Technique to Automated Code Classification," Lecture Notes in Artificial Intelligence, Vol.3681, pp.90-96, 2005.

49. Heuiseok 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, Heuiseok Lim, Kinam Park, Kichun Nam
"A Computation Model of Korean Lexical Processing," Lecture Notes in Artificial Intelligence, Vol.3610, pp.844-849, 2005.

51. Heuiseok Lim, Kichun Nam, Yumi Hwang
"A Computational Model of Korean Mental Lexicon," Lecture Notes in Artificial Intelligence, Vol.3480, pp.1129-1137, 2005.

52. Heuiseok Lim

"Improving kNN Based Text Classification with Well Estimated Parameters," Lecture Notes in Computer Science, Vol3316, pp516-523, 2004.

53. Heuiseok Lim

"Automated Classification of Industry and Occupation Codes Using Document Classification Method" Lecture Notes in Computer Science, Vol.3316, pp827~833, 2004.

54. YouAn Kwon, Kinam Park, Heuiseok 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, Heuiseok Lim

"Effective Methods for Improving Naive Bayes Text Classifiers," Lecture Notes in Computer Science, Vo2417, No.2, pp414-423, 2002.

56. Do-Gil Lee, Sang-Zoo Lee, Hae-Chang Rim, Heuiseok 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, Heuiseok Lim, Hae-Chang Rim

"Twoply Hidden Markov Model: A Korean POS Tagging Model Based on Morpheme-Unit wth 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok Lim

"Analysis for Teaching and Learning Methods in K-12 Smart Education" The Journal of digital policy & management [in Korean]

72. Heajung Kim, Heuiseok Lim

"Exploring on Digital Textbooks for Teachers and Students" The Journal of digital policy & management [in Korean]

73. Wonbam Yoon, Kinam Park, Heuiseok Lim

"A Study on Smart Knowledge Sharing System with Friends" The Journal of digital policy & management [in Korean]

74. Hyesung Ji, Kinam Park, Heuiseok Lim

"Development of Information Visualization Tool using Knowledge Representation" The Journal of digital policy & management [in Korean]

75. Jo JaeChoon, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok Lim

"Development of Foreign Language Fluency Diagnosis Tools For Brain Scientific Language Learning" Korea Association of Computer Education, Vo.l13, NO.1, pp.37~44, 2010. [in Korean]

79. You won hee, Taeweon Suh, Heuiseok Lim

"The automatic Lexical Knowledge acquistion 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, Heuiseok 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, Heuiseok 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. Heuiseok 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. Heuiseok 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. Heuiseok 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, Heuiseok 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. Heuiseok Lim

   "Korean vocabulary automatic acquisition system" The Korea Academia-industrial cooperation Society, Vol.8, No.5, pp.1087~1091, 2007. [in Korean]

87. Heuiseok 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. Heuiseok 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. Heuiseok 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, Heuiseok 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. Heuiseok 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. Heuiseok 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. Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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. Heuiseok 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. Heuiseok 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, Heuiseok Lim, Kichun Nam,

"Comparison of the frequency in Korean Corpus" Korean Society of Loegopedics and Phoniatrics, Vol.1, pp.93~96, 2002. [in Korean]

100. Jin-Dong Kim, Heuiseok 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. Heuiseok 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. Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok Lim

   "Adaptive Learning System using Real-time Learner Profiling" Journal of Digital
   Convergence, 2, 2014.

4. Saebyeok Lee, JaeChoon Jo, SangYep Nam, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok Lim
"A Connectionist Model of Korean Visual Word Recognition," Proceeding of APIC-IST & ICONI 2009, 2009.

12. Heuiseok 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, Heuiseok Lim, SoonYeong Jung
"Neuro-Cognitive Computational Model of Automatic Lexical Acquisition," International Symposium on Control and Automation, 2008.

14. Heuiseok 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, Heuiseok 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, Heuiseok 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, Heuiseok 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 Heuiseok Lim, KiChun Nam,
"The Inhibition Effect of the Phonological Neighborhood Size In Word Recognition: Behavioral and fMRI Study," OHBM 11th Annual Meeting, 2006

19. Heuiseok 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, Heuiseok Lim,

"A Syllable based word recognition model for Korean noun extraction," Proceeding of Annual meeting of the ACL, pp.471-478, 2003.

21. Heuiseok 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, Heuiseok Lim,

"A comparative evaluation of Korean text categorization based on KNN Learning," Proceeding of the 3rd workshop on Asian Language Resources and Int. Stardardization, pp.51, 2002.

23. Sang-Bum Kim, Hae-Chang Rim, Heuiseok 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. Heuiseok 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. Heuiseok Lim, Rim, H. C., Lee, W. K., Ryu, H. C., Kim, H.,

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26. Heuiseok Lim,

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27. Heuiseok Lim, Won-Ho Ryu, Hae-Chang Rim,

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28. Heuiseok Lim, Hae-Chang Rim,

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29. Heuiseok Lim, Dae-Ho Bak, Hae-Chang Rim,

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30. Won-Ho Ryu, Sang-Zoo Lee, Hae-Chang Rim, Heuiseok Lim,

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31. Jin-Dong Kim, Heuiseok Lim, Hae-Chang Rim,
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32. Heuiseok Lim, Jin-Dong Kim, Hae-Chang Rim,
"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. Heuiseok Lim, Jin-Dong Kim, Hae-Chang Rim,
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34. Heuiseok Lim, S. Z. Lee, H. C. Rim,
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35. Jaechoon Jo, Heuiseok Lim
"Development of an Online Education Platform for Flipped Classroom" KIISE(Korean Institute of Information Scientists and Engineers) pp.558-559 , 2017. [in Korean]

36. Jaechoon Jo, Heuiseok Lim
"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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38. Saebyeok Lee, Heuiseok Lim
"EEG-based computer interface developed using the Functional Software," KSII (Korean Society For Internet information), 2010. [in Korean]

39. You won hee, Heuiseok Lim

"Mental lexicon based on the representation of human forms automatically acquire lexical knowledge" KSII (Korean Society For Internet information), 2010. [in Korean]

40. Yeong Wook Yang, Heuiseok Lim

"Using smart diagnostic system is the ability" KSII (Korean Society For Internet information), 2010. [in Korean]

41. Jaechun cho, Heuiseok Lim

"Unplugged Contents Design of Smartphone for Education of Informatics" KSII (Korean Society For Internet information), 2010. [in Korean]

42. Saebyeok Lee, Heuiseok Lim

"Brain Scientific Developments of Foreign Language Fluency Diagnosis Tools" KSII (Korean Society For Internet information), 2009. [in Korean]

43. You won hee, Heuiseok Lim

"A design of Lexical-Knowledge Acquistion model based on unsupervised learning" KSII (Korean Society For Internet information), 2009. [in Korean]

44. Yeong Wook Yang, Heuiseok Lim

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45. Heuiseok Lim, Hye-Sung Ji

"User Click Log Analysis Using the user search intention" The Korea Academia-industrial cooperation Society, 2009. [in Korean]

46. Heuiseok Lim, Saebyeok Lee

"Movement-related EEG signal generator designed for Korean Using" The Korea Academia-industrial cooperation Society, 2009. [in Korean]

47. Heuiseok 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. Heuiseok Lim, Kinam Park, Kichun Nam,

"Liberal model, calculated using the neighboring effects appear in Korean Visual Word Recognition" The Korea Academia-industrial cooperation Society, 2007. [in Korean]

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51. Heuiseok Lim,

    "Liberal model calculations using the model design and implementation of Korean vocabulary acquisition" The Korea Academia-industrial cooperation Society, 2007. [in Korean]

52. Chang-Soo Park, Jong-Hye Han, Heuiseok Lim, Kichun Nam

    "The Cortical Activation Associated with Emotional and Linguistic Processing Involved in Word Recognition" The Korean Society for Cognitive Science, 2006. [in Korean]

53. Lim H.S., Cho S.H., Kang M.G., Hong S.C.,

    "Standard Document Format for Portable Mobile Devices" Korean Society For Internet information , 2005. [in Korean]

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56. Hyungwook Yim, Heuiseok Lim, Yuan Kwon, Kichun Nam

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57. Chang Soo Park, Jong-Hye Han, Heuiseok Lim, Kichun Nam

    "Comparison of the frequency in Korean Corpus," Phonetic society of Korea, pp.93~95, 2002. [in Korean]

58. Heuiseok Lim, Jong Won Park, Kichun Nam

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59. Heuiseok Lim,

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60. Heuiseok 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, Heuiseok Lim,

"Simulation Model of Korean words," Acoustical Society Korea, 2002. [in Korean]

62. Kichun Nam, Yumi Hwang, Yuan Kwon, Heuiseok Lim
"Morphological Characteristics of Verbs in Korean Information Processing," The Korean Society for Cognitive Science pp.137~143, 2002. [in Korean]

63. Kichun Nam, Heuiseok 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, Heuiseok Lim
"Morphological Characteristics of Verbs in Korean Information Processing (I): information processing prototype," Korean Brain Society, 2002. [in Korean]

65. Heuiseok Lim,
"Using information retrieval techniques Industry / Occupation Code List Tool," Korea Multimedia Society, 2001. [in Korean]

66. Heuiseok 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. Heuiseok 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]

68. Jeong-Kyu Lee, Sang-Zoo Lee, Heuiseok Lim, Hae-Chang Rim,
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"Considering Korean POS Tagging based transformation rules," Artificial Intelligence Teams pp.3-10, 1996. [in Korean]

72. BoHyun Yun, Heuiseok 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 , Heuiseok 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. Heuiseok 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.

Programing 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 : Heuiseok 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 : Heuiseok 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 : Heuiseok 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 : Heuiseok Lim
Duration: May. 2007 – Apr. 2008.
Amount: $40,000

Industrial Research Experience

Professional Researcher, Samsung Advanced Institute of Technology (SAIT), 1997-199. 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