

Curriculum Vitae

Youngjoong Ko

[Update Date: March 07, 2024]

1. Personal Data

- Date of Birth: July 18, 1971
- Birthplace: Seoul, Korea
- Citizenship: Korea

2. Address

Dept. of Computer Science & Engineering, Graduate School of AI, and Applied Data Science, Sungkyunkwan University,
86409 N Center, 2066, Seobu-ro, Jangan-gu, Suwon-si,
Gyeonggi-do, 16419, Korea

Tel: +82-31-299-4798

E-mail: youngjoong.ko@gmail.com, yjko@skku.edu

URL: <https://nlp.skku.edu>

3. Research Interests

Computational Linguistics/Natural Language Processing

- POS tagging, dependency parsing, named entity recognition and semantic role labeling
- Natural language understanding, speech-act classification and slot-filling
- Discourse analysis
- Dialogue systems for robot, smart phone, etc.

Information Retrieval

- Cross-language information retrieval
- Semantic search with Wikipedia

Big Data Analysis

- Machine Learning/Adversarial Learning
- Deep Learning/Deepfake
- Topic Modeling (LDA)

Text Mining

- Text classification based on unsupervised learning/supervised learning/Clustering
- Text Summarization
- Fake News Detection

Opinion Mining

- Multilingual opinion mining
- Comparison mining
- Sentiment classification

4. Listings, Honors, and Awards

- Who's Who of Emerging Leaders, 1st December 2006 Editions.
- Who's Who in Asia, 1st December 2006 and 2nd December 2012 Editions.
- Who's Who in Science and Engineering, 9th 2006-2007 and 10th 2008-2009 Editions.
- Who's Who in the World, 23rd 2006, 24th 2007, 25th 2008, 26th 2009, 30th 2013 Editions

- Merit-based Scholarship
 - 1998-1999: Graduate School at Sogang University.
 - 1994–1996: Sogang University, B.S. with Cum Laude.

- Graduate Assistantship
 - 2000-2003: Graduate School at Sogang University.

- Awards
 - Winner (3rd Place), Track #3 (Next Product Title Generation) of Amazon KDD Cup in KDD 2023 (with Honghee Lee, Youngjae Chang and Kyuri Choi)
 - Sungkyunkwan University Achievement Evaluation: Excellence Award in Research Area (신품-神品), 2021.
 - Winner (1st Place), Sub-Track #1 (Disambiguation) and #3 (Dialogue State Tracking) of SIMMC 2.0 (Situating Interactive Multi-Modal Conversational AI: Track 3) in DSTC 10, 2021 (with Dongchul Son and Youngjae Chang)
 - 4th Place, Task 2 (Task-oriented Conversational Modeling with Unstructured Knowledge Access) and 5th Place, Task 1 (Dialogue State Tracking) of Knowledge-grounded Task-oriented Dialogue Modeling on Spoken Conversations (Track 2) in DSTC 10, 2021 (with Junhee Cho, Haeun Yu, Choongwon Park and Jaeha Yu)
 - Special Prize, 2021 AI Language Ability Competition (with Dooyoung Kim, Honghee Lee, Youngjae Chang, Jaeha Yu, Jinyoung Kim and Haeun Lee)
 - Bronze Prize, Korean Information Processing System Competition 2020 (with Dongchul Son, Junhee Cho, Dooyoung Kim, Guyry Choi, Jihyun Bae, and Seryoung Kim).
 - Excellence Award, 4th Industrial Revolution-era Scientific Investigation Ideas Contest 2018 (with Seungwook Lee, Hongyeon Yu, Gihwan Kim and Jeongmin Yoon)
 - Bronze Prize, Korean Information Processing System Competition 2016 (with Hongyeon Yu, Hokyoun Lee and Mincheol Kim).
 - Bronze Prize, Korean Information Processing System Competition 2016 (with Jaehyun An, Jungmin Yoon, Yongsin Park and Kyoungman Bae).
 - Outstanding Paper Contribution Award, Korean Institute of Information Scientists and Engineers, 2015
 - Encouragement Prize, Korean Information Processing System Competition 2015 (with Juryong Cheon, Hongyeon Yu and Kyoungman Bae).
 - Encouragement Prize, Korean Information Processing System Competition 2015 (with Hokyoun Lee, Jungmin Yoon and Jaewon Hwang).
 - Encouragement Prize, Korean Information Processing System Competition 2014 (with Sujeong Kim, Taehyun Kim, Yongmin Kim and Jungbo Lee).
 - Grand Prize, 38th Academic Paper Presentation Contest at Dong-A University 2009 (with Yonghyun Park).

- Best Paper Awards
 - KSC 2022(two papers with Hyunmook Cha and Haeun Lee), HCLT 2018(two papers with Hongyeon Yu and Jaehyun Ahn), KSC 2017 (three papers with Jaehyun Ahn, Jungmin yoon & Yoojin Jeong), HCLT 2016 (with Hongyeon Yu), HCLT 2015 (with Juryong Cheon), KCC 2015 (with Namhoon Song), HCLT 2014 (with Juryong Cheon), HCLT 2013 (with Changsu Lee), KCC 2012 (two papers with Junyoung Lee & Seon Yang), KCC 2011 (with Seon Yang), KIISE 2010 (with Sungho Kim), KIISE 2009 (with Sangjoon Bae), HCLT 2009 (with Seon Yang), HCLT 2008 (with Sangjoon Bae), KIISE 2007 (with Jaewon Hwang).

5. Professional Experiences

- September 2019 – Present: Professor of **Computer Science and Engineering, Graduate School of AI, and Applied Data Science at Sungkyunkwan University**, Korea.
- September 2015 – August 2019: Professor of **Computer Engineering at Dong-A University**, Korea.
- October 2010 – August 2015: Associate Professor of **Computer Engineering at Dong-A University**, Korea.
- June 2011 – June 2012: Visiting Scholar of the **UMIACS research center at University of Maryland**, College Park, USA.
- September 2004 – September 2010: Assistant Professor of **Computer Engineering at Dong-A University**, Korea.
- September 2003 – August 2004: Senior Researcher at **Institute for Applied Science and Technology (IAST) at Sogang University**, Korea.
- March 2000 – August 2004: Instructor of **Computer Science at Sogang University**, Korea.
- July 1996 – December 1997: System Engineer at **LG-EDS Corporation**, Korea.

6. Professional Activities

- Member of AICE Inspection Committee for KT (2023.3.29~2024.3.28)
- Member of AI Advisory Council in POSCO (2022.7.1~2023.6.30)
- Chairman of the News Retrieval Algorithm Review Committee for Naver (2021)
- Instructor of the Intensive Course for Natural Language Processing in Samsung Data Systems (2021. 7)
- Instructor of the Intensive Course for Language Analysis in Samsung Advanced Technology Training Institute (Natural Language Processing with Deep Neural Networks, 2018. 2, 3, 7, 11, 2019. 6, 8, 2020. 6, 8, 2021. 7, 8)
- Director of the Expert Course for Language Analysis in Samsung Advanced Technology Training Institute (E2E Dialogue Systems for DSTC, 2019.7.15~10.31)
- Member of the News Retrieval Algorithm Review Committee for Naver (2018)
- General Executive of Korean Society for Cognitive Science (KSCS, 2016)
- Executive of Korean Society for Augmentative and Alternative Communication (KSAAC, 2013-present)
- Journal Associate Editor: Journal of Computing Science and Engineering (2009.6-present), Journal of KIISE: Software and Applications (2013.3-present).
- Organizing Chair: HCLT 2016.
- Organizing Chair for the Competition of Korean Information Processing Systems, 2014.
- Organizing Publicity Chair: ACL 2012.
- Organizing Committee Member: ACL 2012, KIPONTO 2007, KIPONTO 2006, AIRS 2005, KIPONTO 2005.
- Program Committee Chair for Human and Cognitive Language Technology (HCLT 2006), 2006
- Program Committee Vice-Chair for Korea Computer Congress 2009.
- Program Committee Area Chair for Human and Cognitive Language Technology (HCLT 2007), 2007.
- Program Committee Member: HCLT 2016, HCLT 2015, HCLT 2014, HCLT 2013, HCLT 2012, KCC 2012, CNSI 2011, KCC 2011, HCLT 2010, SIGIR 2010, COLING 2010, HCLT 2009, HCLT 2008, SIGIR 2008, ALPIT 2008, ALPIT 2007, AIRS 2006, ICCPOL 2006.
- Steering Committee Member: AIRS (Asian Information Retrieval Symposium, 2014.8 ~ 2017.7)
- Consultative Committee Member: Diquest Inc. Diquest.com (2007-present), KISTI (2009.8.-present)
- Local Arrangement Committee Member: IWSDS 2015.
- Professional Society Member: Association for Computational Linguistics (ACL) (2000-present), ACM

SIGIR (2000-present), Korean Institute of Information Scientists and Engineers (KIISE) (2000-present), Korean Society for Cognitive Science (KSCS) (2007-present)

- Journal Reviewers: Journal of Intelligent Information Systems, Information Processing Letters, Information Processing Management, Information Sciences, ACM Transaction on Asian Language Information Processing, Korean Institute of Information Scientists and Engineers, Korean Society for Cognitive Science, Korea Information Processing Society.

7. List of Publications

Journal Publications

1. Youngjae Chang and Youngjoong Ko (2023), “Two-step Masked Language Model for Domain-adapting Multi-modal Task-oriented Dialogue Systems,” *IEEE/ACM Transactions on Audio, Speech and Language Processing*, Vol. , pp. -, 2023. [SCIE]
2. Choongwon Park and Youngjoong Ko (2024), “Query-Focused Summarization with the Context-Graph Information Fusion Transformer,” *Expert Systems With Applications, Elsevier Science*, Vol. 241, pp. 122699, May 2024. [SCIE]
3. Jinyoung Kim and Youngjoong Ko (2024), SPACE: Senti-Prompt As Classifying Embedding for sentiment analysisSoft Engagement with Pseudo Initiatives for Multi-Party Dialogue Generation. *Pattern Recognition Letters, Elsevier Science*, Vol. 180, pp. 62-67, April 2024. [SCIE]
4. Taehun Huh and Youngjoong Ko (2023), “Efficient Framework for Low-Resource Abstractive Summarization by Meta-Transfer Learning and Pointer-Generator Networks,” *Expert Systems With Applications, Elsevier Science*, Vol. 234, pp. 121029, 2023. [SCIE]
5. Honghee Lee and Youngjoong Ko (2023), “Multi-task Learning Based Re-ranker for External Knowledge Retrieval in Document-grounded Dialogue systems,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 50, No. 7, pp. 606-613, July 2023. (in Korean) [연구재단등재]
6. Dooyoung Kim and Youngjoong Ko (2023), “Video Retrieval System using One-to-one Relation between Clip-Sentence Sequence,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 50, No. 6, pp. 476-483, June 2023. (in Korean) [연구재단등재]
7. Junhee Cho and Youngjoong Ko (2023), “DiCeR: Dialogue-Centric Representation for Knowledge-Grounded Dialogue through Contrastive Learning,” *Pattern Recognition Letters, Elsevier Science*, Vol. 172, pp. 151-157, August 2023. [SCIE]
8. Kyuri Choi and Youngjoong Ko (2023), “Meta-Learning with Topic-agnostic Representations for Zero-Shot Stance Detection,” *Pattern Recognition Letters, Elsevier Science*, Vol. 171, pp. 15-20, July 2023. [SCIE]
9. Haeun Yu and Youngjoong Ko (2023), “Enriching the Dialogue State Tracking Model with a Syntactic Discourse Graph,” *Pattern Recognition Letters, Elsevier Science*, Vol. 169, pp. 81-86, May 2023. [SCIE]
10. Bosung Kim, Hyewon Choi, Haeun Yu and Youngjoong Ko (2023), “Graph-based Query Reformulation System for Descriptive Queries of Jargon Words using Definitions,” *Expert Systems With Applications, Elsevier Science*, Vol. 214, 119149, March 2023. [SCIE]
11. Taesuk Hong, Junhee Cho, Haeun Yu, Youngjoong Ko and Jungyun Seo (2023), “Knowledge-grounded Dialogue Modeling with Dialogue-State Tracking, Domain Tracking, and Entity Extraction,” *Computer Speech and Language, Elsevier Science*, Vol. 78, pp. 101460, March 2023. [SCIE]
12. Bonggeun Choi and Youngjoong Ko (2023), “Knowledge Graph Extension with a Pre-trained Language Model via Unified Learning Method,” *Knowledge-Based Systems Elsevier Science*, Vol. 262, pp. 110245, February 2023. [SCIE]
13. Junhee Cho and Youngjoong Ko (2022), “Structuralized External Knowledge and Multi-task Learning for Knowledge Selection,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 49, No. 10, pp. 884-890, October 2022. (in Korean) [연구재단등재]

14. Haeun Yu and Youngjoong Ko (2022), "Entity Graph Based Dialogue State Tracking Model with Data Collection and Augmentation for Spoken Conversation," *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 49, No. 10, pp. 891-897, October 2022. (in Korean) [연구재단등재]
15. Yeongjoon Park, Youngjoong Ko and Jungyun Seo (2022), "BERT-based Response Selection in Dialogue Systems using Utterance Attention Mechanisms", *Expert Systems With Applications, Elsevier Science*, Vol. 209, pp. 118277, December 2022. [SCIE]
16. Meongjun Kim and Youngjoong Ko (2022), "Multi-task Fine-tuning for Passage Re-ranking Using BM25 and Pseudo Relevance Feedback," *IEEE Access*, Vol. 10, pp. 54254-54262, May 2022. [SCIE]
17. Hyewon Choi and Youngjoong Ko (2022), "Effective Fake News Video Detection Using Domain Knowledge and Multimodal Data Fusion on YouTube," *Pattern Recognition Letters, Elsevier Science*, Vol. 154, pp. 44-52, February 2022. [SCIE]
18. Bosung Kim, Youngjoong Ko and Jungyun Seo (2022), "Novel Regularization Method for the Class Imbalance Problem," *Expert Systems with Applications*, Vol. 188, pp. 115974, February 2022. [SCIE]
19. Janghoon Han, Youngjoong Ko and Jungyun Seo (2021), "External Knowledge Incorporated BERT for Retrieval-based Dialogue Systems," *Journal of KIISE Transactions on Computing Practices*, Vol. 27, No. 12, pp. 549-554, December 2021. (in Korean) [연구재단등재]
20. Daesik Jang and Youngjoong Ko (2021), "Knowledge Graph Completion using Hyper-class Informative and Pre-trained Language Model," *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 48, No. 11, pp. 1228-1234, November 2021. (in Korean) [연구재단등재]
21. Gihwan Kim and Youngjoong Ko (2021), "Effective Fake News Detection using Graph and Summarization Techniques," *Pattern Recognition Letters, Elsevier Science*, Vol. 151, pp. 135-139, November 2021. [SCIE]
22. Hyewon Choi and Youngjoong Ko (2021), "Using Adversarial Learning and Biterm Topic Model for an Effective Fake News Video Detection System on Heterogeneous Topics and Short Texts," *IEEE ACCESS*, Vol. 9, pp. 164846-164853, October 2021. [SCIE]
23. Bonggeun Choi, Daesik Jang and Youngjoong Ko (2021), "MEM-KGC: Masked Entity Modeling for Knowledge Graph Completion with Pre-trained Language Model," *IEEE ACCESS*, Vol. 9, pp. 132025-132032, September 2021. [SCIE]
24. Sunjae Kwon, Dongsuk O and Youngjoong Ko (2021), "Word Sense Disambiguation based on Context Selection using Knowledge-based Word Similarity," *Information Processing and Management, Pergamon-Elsevier Science*, Vol. 58, No. 4, 102551, July 2021. [SCIE]
25. Juryong Cheon and Youngjoong Ko (2021), "Parallel Sentence Extraction to Improve Cross-Language Information Retrieval from Wikipedia," *Journal of Information Science, SAGE journals*, Vol. 47, No. 2, pp. 281-293, April 2021. [SCIE]
26. Seungwook Lee and Youngjoong Ko (2020), "Named-Entity Recognition Using Automatic Construction of Training Data from Social Media Messaging Apps," *IEEE ACCESS*, Vol. 8, pp. 222724-222732, December 2020. [SCIE]
27. Gihwan Kim and Youngjoong Ko (2020), "Query-based Abstractive Summarization Model Using Sentence Ranking Scores and Graph Techniques," *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 47, No. 12, pp. 1172-1180, December 2020. (in Korean) [연구재단등재]
28. Juae Kim, Youngjoong Ko and Jungyun Seo (2020), "Construction of Machine-Labeled Data for Improving Named Entity Recognition by Transfer Learning," *IEEE ACCESS*, Vol. 8, pp. 59684-59693, March 2020. [SCIE]
29. Hongyeon Yu, Jaehyun An, Jeongmin Yoon, Hyemin Kim and Youngjoong Ko (2020), "Simple Methods to Overcome the Limitations of General Word Representations in Natural Language Processing Tasks," *Computer Speech and Language, Elsevier Science*, Vol. 59, pp. 91-113, January 2020. [SCIE]
30. Guanghao Xu, Youngjoong Ko and Jungyun Seo (2019), "Improving Neural Machine Translation by Filtering Synthetic Parallel Data," *Entropy*, Vol. 21, No. 12, pp. 1213, December 2019. [SCIE]
31. Hongseon Yeom, Youngjoong Ko and Jungyun Seo (2019), "Unsupervised-learning Based Keyphrase Extraction from a Single Document by the Effective Combination of the Graph-based Model and the

- Modified C-value Method,” *Computer Speech and Language, Elsevier Science*, Vol. 58, pp. 304-318, November 2019. [SCIE]
32. Kyoungman Bae and Youngjoong Ko (2019), “Efficient question classification and retrieval using the category information and word embedding on cQA services,” *Journal of Intelligent Information System*, Springer, Vol. 53, No. 1, pp. 27-49, August 2019. [SCIE]
 33. Kyoungman Bae and Youngjoong Ko (2019), “Improving Question Retrieval in Community Question Answering Service using Dependency Relations and Question Classification,” *Journal of the Association for Information Science and Technology*, Wiley-Blackwell, March 2019. (online publication) [SSCI]
 34. Juae Kim, Youngjoong Ko and Jungyun Seo (2019), “A Bootstrapping Approach with CRF and Deep Learning Models for Improving the Biomedical Named Entity Recognition in Multi-domains,” *IEEE Access*, Vol. 7, pp. 70308-70318, June 2019. [SCIE]
 35. Jaehyun An and Youngjoong Ko (2019). “Semi-automatic Expansion for a Chatting Corpus Based on a K-means Clustering Method And Similarity Measure,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 46, No. 5, pp. 440-447, May 2019. (in Korean) [연구재단등재]
 36. Hongyun Yoo, Seungwoo Lee and Youngjoong Ko (2019). “Incremental Clustering and Multi-Document Summarization for Issue Analysis based on Real-time News,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 46, No. 4, pp. 355-362, April 2019. (in Korean) [연구재단등재]
 37. Hyemin Kim, Seon Yang and Youngjoong Ko (2019), “How to Utilize Syllable Distribution Patterns as the Input of LSTM for Korean Morphological Analysis,” *Pattern Recognition Letters*, Elsevier Science, Vol. 120, pp. 39-45, April 2019. [SCIE]
 38. Sunjae Kwon, Youngjoong Ko and Jungyun Seo (2019), “Effective Vector Representation for the Korean Named-Entity Recognition,” *Pattern Recognition Letters*, Elsevier Science, Vol. 117, pp. 52-57, January 2019. [SCIE]
 39. Kyoungman Bae and Youngjoong Ko (2018). “Speech-Act Classification Using Convolution Neural Networks and Word Embedding,” *International Journal on Artificial Intelligence Tools*, World Scientific, Vol. 27, No. 6, 1850026, September 2018. [SCIE]
 40. Jungmin Yoon and Youngjoong Ko (2018). “Speech-act Analysis System Based on Dialogue Level RNN-CNN Effective on the Exposure Bias problem,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 45, No. 9, pp. 911-917, September 2018. (in Korean) [연구재단등재]
 41. Jaehyun An and Youngjoong Ko (2018). “Korean Dependency Parser Using Dependency Relation Tag Distribution,” *Journal of KIISE Transactions on Computing Practices*, Vol. 24, No. 9, pp. 487-492, September 2018. (in Korean) [연구재단등재]
 42. Youjin Jeong, Juae Kim, Youngjoong Ko and Jungyun Seo (2018). “A Named Entity Recognition Training Method Using Bagging Based Bootstrapping,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 45, No. 8, pp. 825-830, August 2018. (in Korean) [연구재단등재]
 43. Hyoungil Jeong, Youngjoong Ko and Jungyun Seo (2018). “Statistical Text Summarization Using a Category-based Language Model on a Bootstrapping Framework,” *International Journal on Artificial Intelligence Tools*, World Scientific, Vol. 27, No. 3, 1850014, May 2018. [SCIE]
 44. Changsu Lee and Youngjoong Ko (2018). “Spoken Language Understanding with a Novel Simultaneous Recognition Technique for the Intelligent Personal Assistant Software,” *International Journal on Artificial Intelligence Tools*, World Scientific, Vol. 27, No. 3, 1850009, May 2018. [SCIE]
 45. Donghyun Yoo, Youngjoong Ko and Jungyun Seo (2017). “Speech-Act Classification Using a Convolutional Neural Network Based on POS tag and Dependency-Relation Bigram Embedding,” *IEICE Transactions on Information and System*, Vol. E100-D, No. 12, pp. 3081-3084, December 2017. [SCIE]
 46. Youngjoong Ko (2017). “How to Use Negative Class Information for Naive Bayes Classification,” *Information Processing and Management*, Pergamon-Elsevier Science, Vol. 53, No. 6, pp. 1255-1268, November 2017. [SSCI]
 47. Hokyung Lee, Jaehyun An, Jungmin Yoon, Kyoungman Bae and Youngjoong Ko (2017). “A Method of Solving Entity Linking Ambiguity and NIL Entity Recognition for efficient Entity Linking based on Wikipedia,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 44, No.8, pp.

813-821, August 2017. (in Korean) [연구재단등재]

48. Kyoungman Bae and Youngjoong Ko (2017). "Improving Question Retrieval in cQA Services Using a Dependency Parser," *IEICE Transactions on Information and System*, Vol. E100-D, No. 4, pp. 807-810, April 2017. [SCIE]
49. Hongyun Yoo and Youngjoong Ko (2017). "Expansion of Word Representation for Named Entity Recognition Based on Bidirectional LSTM CRFs," *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 44, No. 3, pp. 306-313, March 2017. (in Korean) [연구재단등재]
50. Juryong Cheon and Youngjoong Ko (2017). "Automatically Extracting Parallel Sentences from Wikipedia Using Sequential Matching of Language Resources," *IEICE Transactions on Information and System*, Vol. E100-D, No. 2, pp. 405-408, February 2017. [SCIE]
51. Hyungil Jeong, Youngjoong Ko and Jungyun Seo (2016), "How to Improve Text Summarization and Classification by Mutual Cooperation on an Integrated Framework," *Expert Systems with Applications*, Vol. 60, pp. 222-233, October 2016. [SCIE]
52. Hokyung Lee, Seon Yang and Youngjoong Ko. "Feature Expansion based on LDA Word Distribution for Performance Improvement of Informal Document Classification," *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 43, No. 9, pp. 1008-1014, September 2016. (in Korean) [연구재단등재]
53. Kyoungman Bae, Sungho Kim, Juryong Cheon and Youngjoong Ko (2016). "Constructing language resources based on the Wikipedia for the semantic analysis," *Communications of KIISE*, Vol. 34, No. 8, pp. 30-36, August 2016. (in Korean)
54. Kyoungman Bae and Youngjoong Ko (2016), "How to Combine Translation Probabilities and Question Expansion for Question Classification in cQA Services," *IEICE Transactions on Information and System*, Vol. E99-D, No. 4, pp. 1019-1022, April 2016. [SCIE]
55. Namhoon Song, Kyoungman Bae and Youngjoong Ko (2016), "Effective Korean Speech-act Classification Using a Classification Priority Application and a Post-correction Rule," *Journal of Korean Institute of Information Scientists and Engineers (KIISE): Software and Applications*, Vol. 43, No. 1, pp. 80-86, January 2016. (in Korean) [연구재단등재]
56. Youngjoong Ko (2015), "A New Term Weighting Scheme for Text Classification Using the Odds of Positive and Negative Class Probabilities," *Journal of the Association for Information Science and Technology*, Wiley-Blackwell, Vol. 66, No. 12, pp. 2553-2565, December 2015. [SSCI]
57. Hyungil Jeong, Youngjoong Ko and Jungyun Seo (2015), "Efficient Keyword Extraction and Text Summarization for Reading Articles on a Smart Phone," *Computing and Informatics*, Vol. 34, No. 4, pp. 779-794, August 2015. [SCIE]
58. Juryong Cheon and Youngjoong Ko (2015), "Building a Korean-English Parallel Corpus by the Measurement of Sentence Similarities Using the Sequential Matching of Language Resources and Topic Modeling," *Journal of Korean Institute of Information Scientists and Engineers (KIISE): Software and Applications*, Vol. 42, No. 7, pp. 901-909, July 2015. (in Korean) [연구재단등재]
59. Youngjoong Ko (2015), "New Feature Weighting Approaches for Speech-act Classification," *Pattern Recognition Letters*, Elsevier Science, Vol. 51, pp. 107-111, January 2015. [SCIE]
60. Sungho Kim, Youngjoong Ko and Douglas W. Oard (2015), "Combining Lexical and Statistical Translation Evidence for Cross-Language Information Retrieval," *Journal of the Association for Information Science and Technology*, Wiley-Blackwell, Vol. 66, No. 1, pp. 23-39, January 2015. [SSCI]
61. Seon Yang and Youngjoong Ko (2014), "Mathematical Formula Search using Natural Language Queries," *Advances in Electrical and Computer Engineering*, Vol. 14, No. 4, pp. 99-104, December 2014. [SCIE]
62. Seon Yang and Youngjoong Ko (2014), "Classifying Korean Comparative Sentences for Comparison Analysis," *Natural Language Engineering*, Cambridge Journals, Vol. 20, No. 4, pp. 557-581, October 2014. [SSCI]
63. Sunghyun Kim, Seon Yang and Youngjoong Ko (2014), "Extracting Korean-English Parallel Sentences from Wikipedia," *Journal of Korean Institute of Information Scientists and Engineers (KIISE): Software*

and Applications, Vol. 41, No. 8, pp. 580-585, August 2014. (in Korean) [연구재단등재]

64. Changsu Lee and Youngjoong Ko (2014), "A Simultaneous Recognition Method of Named Entities and Objects for the Language Understanding Module of a Dialogue-based Private Secretary System," *Journal of Korean Institute of Information Scientists and Engineers (KIISE): Software and Applications*, Vol. 41, No. 4, pp. 295-301, April 2014. (in Korean) [연구재단등재]
65. Youngjoong Ko (2014), "Sentiment Classification Using Global and Domain Features," *Information: An International Interdisciplinary Journal*, Vol. 17, No. 2, pp. 699-708, February 2014. [SCOPUS]
66. Kyoungman Bae, Sunghyun Kim, Youngjoong Ko and Jonghoon Kim (2014), "An Efficient Named Entity and Topic Word Recognition Method Based on Named Entity Pattern in a Natural Language Interface," *Journal of Korean Institute of Information Technology (KIIT)*, Vol. 12, No. 1, pp. 121-130, January 2014. (in Korean) [연구재단등재]
67. Sangwoo Kang, Youngjoong Ko and Jungyun Seo (2013), "Hierarchical Speech-act Classification for Discourse Analysis," *Pattern Recognition Letters*, Elsevier Science, Vol. 34, No. 10, pp. 1119-1124, July 2013. [SCIE]
68. Sangwoo Kang, Youngjoong Ko and Jungyun Seo (2013), "A Dialogue Management System Using a Corpus-based Framework and the Dynamic Dialogue Transition Model," *AI Communications*, Vol. 26, No. 2, pp. 145-159, April 2013. [SCIE]
69. Youngjoong Ko and Sangjun Bae (2012), "Automatic Named-Entity Set Expansion from the Web Using a Mutual Importance Measure," *Information: An International Interdisciplinary Journal*, Vol. 15, No. 11(B), pp. 5029-5040, November 2012. [SCIE]
70. Kyungsun Kim, Youngjoong Ko and Jungyun Seo (2012), "An Effective Application of Contextual Information Using Adjacency Pairs and a Discourse Stack for Speech-Act Classification," *International Journal of Innovative Computing Information and Control (IJICIC)*, Vol. 8, No. 11, pp. 7713-7728, November 2012. [SCIE]
71. Shinil Kim, Seon Yang and Youngjoong Ko (2012), "Classifying Mathematical Expressions Written in MathML," *IEICE Transactions on Information and System*, Vol. E95-D, No. 10, pp. 2560-2563, October 2012. [SCIE]
72. Kyoungman Bae, Youngjoong Ko and Jonghoon Kim (2012), "A Topic Classification Method Based on a Language Model Using the Structural Features of the Question-Answer Pair on cQA," *Journal of Korean Institute of Information Scientists and Engineers (KIISE): Software and Applications*, Vol. 39, No. 8, pp. 664-671, August 2012. (in Korean) [연구재단등재]
73. Shinil Kim, Seon Yang and Youngjoong Ko (2012), "A Novel Discriminative Probabilistic Model for Automatic Word Spacing on Mobile Devices," *International Journal of Innovative Computing Information and Control (IJICIC)*, Vol. 8, No. 7, pp. 5055-5065, July 2012. [SCIE]
74. Sangwoo Kang, Youngjoong Ko and Jungyun Seo (2012), "Generating Effective Responses for a Plan-based Dialogue System in Human-robot Interaction," *Information: An International Interdisciplinary Journal*, Vol. 15, No. 2, pp. 949-960, February 2012. [SCIE]
75. Seon Yang and Youngjoong Ko (2011), "Extracting Comparative Elements for Korean Comparison Mining," *Journal of Korean Institute of Information Scientists and Engineers (KIISE): Software and Applications*, Vol. 38, No. 12, pp. 689-696, December 2011. (in Korean) [연구재단등재]
76. Youngjoong Ko and Jungyun Seo (2011), "Issues and Empirical Results for Improving Text Classification," *Journal of Computing Science and Engineering (JCSE)*, Vol. 5, No. 2, pp. 150-160, June 2011. [SCOPUS]
77. Sungho Kim, Sangjun Bae and Youngjoong Ko (2011), "Word Sense Disambiguation and Feature Extraction for Query Expansion Method based on Korean Wikipedia," *Journal of Korean Institute of Information Scientists and Engineers (KIISE): Computing Practices and Letters*, Vol. 17, No. 3, pp. 185-189, March 2011. (in Korean) [연구재단등재]
78. Seon Yang and Youngjoong Ko (2011), "Finding Relevant Features for Korean Comparative Sentence Extraction," *Pattern Recognition Letters*, Elsevier Science, Vol. 32, No. 2, pp. 293-296, January 2011. [SCIE]

79. Yonghyun Park, Jaewon Hwang and Youngjoong Ko (2010), “Korean Noun Extractor using Occurrence Patterns of Nouns and Post-noun Morpheme Sequences,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE): Software and Applications*, Vol. 37, No. 12, pp. 919-927, December 2010. (in Korean) [[연구재단등재](#)]
80. Shinil Kim, Seon Yang and Youngjoong Ko (2010), “A Word Spacing System based on Syllable Patterns for Memory-constrained Devices,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE): Software and Applications*, Vol. 37, No. 8, pp. 653-658, August 2010. (in Korean) [[연구재단등재](#)]
81. Sangjoon Bae and Youngjoong Ko (2010), “Automatic Construction of Class Hierarchies and Named Entity Dictionaries Using Korean Wikipedia,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE): Computing Practices and Letters*, Vol. 16, No. 4, pp. 492-496, April 2010. (in Korean) [[연구재단등재](#)]
82. Jaewon Hwang and Youngjoong Ko (2010), “A Korean Document-Sentiment Classification System Based on Semantic Properties of the Sentiment Word,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE): Software and Applications*, Vol. 37, No. 4, pp. 317-322, April 2010. (in Korean) [[연구재단등재](#)]
83. Kyoungman Bae, Jaewon Hwang, Youngjoong Ko and Jonghoon Kim (2010), “A Search-Result Clustering Method Based on Word Clustering for Effective Browsing of the Paper Retrieval Results,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE): Software and Applications*, Vol. 37, No. 3, pp. 139-146, March 2010. (in Korean) [[연구재단등재](#)]
84. Seon Yang and Youngjoong Ko (2010), “Transformation-based Learning for Korean Comparative Sentence Classification,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE): Software and Applications*, Vol. 37, No. 2, pp. 154-159, February 2010. (in Korean) [[연구재단등재](#)]
85. Jaewon Hwang and Youngjoong Ko (2009), “A Document Sentiment Classification System Based on the Feature Weighting Method Improved by Measuring Sentence Sentiment Intensity,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE): Software and Applications*, Vol. 36, No 6, pp. 491-497, June 2009. (in Korean) [[연구재단등재](#)]
86. Youngjoong Ko and Jungyun Seo (2009), “Text Classification from Unlabeled Documents with Bootstrapping and Feature Projection Techniques,” *Information Processing & Management*, Pergamon-Elsevier Science, Vol. 45, No. 1, pp. 70-83, January 2009. [[SSCI](#)]
87. Youngjoong Ko, Hongkuk An and Jungyun Seo (2008), “Pseudo-Relevance Feedback and Statistical Query Expansion for Web Snippet Generation,” *Information Processing Letters*, Elsevier Science, Vol. 109, No. 1, pp. 18-22, December 2008. [[SCIE](#)]
88. Jaewon Hwang and Youngjoong Ko (2008), “A Korean Emotion Features Extraction Method and their Availability Evaluation for Sentiment Classification,” *Korean Journal of Cognitive Science*, Vol. 19, No. 4, pp. 499-517, December 2008. (in Korean) [[연구재단등재](#)]
89. Sangjoon Bae and Youngjoong Ko (2008), “Automatic Named Entities Extraction Using the Graph-based Measurement Technique of the Mutual Importance,” *Korean Journal of Cognitive Science*, Vol. 19, No. 4, pp. 443-458, December 2008. (in Korean) [[연구재단등재](#)]
90. Youngjoong Ko and Jungyun Seo (2008), “An Effective Sentence-Extraction Technique Using Contextual Information and Statistical Approaches for Text Summarization,” *Pattern Recognition Letters*, Elsevier Science, Vol. 29, No. 9, pp. 1366-1371. July 2008. [[SCIE](#)]
91. Sangwoo Kang, Youngjoong Ko and Jungyun Seo (2008), “Using Plan Recognition and a Discourse Stack for Effective Response Generation in a Dialogue System,” *Korean Journal of Cognitive Science*, Vol. 19, No. 2, pp. 107-124, June 2008. (in Korean) [[연구재단등재](#)]
92. Youngjoong Ko and Jungyun Seo (2008), “Automatic Text Categorization Based on Semi-Supervised Learning,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE): Software and Applications*, Vol. 35, No 5, pp. 306-315, May 2008. (in Korean) [[연구재단등재](#)]
93. Jaewon Hwang and Youngjoong Ko (2008), “A Korean Sentence and Document Sentiment Classification System Using Sentiment Features,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE): Computing Practices and Letters*, Vol. 14, No. 3, pp. 336-340, May 2008. (in Korean)

[연구재단등재]

94. Wonil Kim, Youngjoong Ko and Jungyun Seo (2008), "An Effective Adaptive Dialogue Strategy Using Reinforcement Learning," *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 35, No. 1, pp. 33-40, January 2008. (in Korean) [연구재단등재]
95. Youngjoong Ko, Sooyong Park, Jungyun Seo and Soonhwang Choi (2007), "Using Classification Techniques for Informal Requirements in the Requirements Analysis-supporting System," *Information and Software Technology*, Elsevier Science, Vol. 49, No.11-12, pp. 1128-1140, November 2007. [SCIE]
96. Hyoungdong Han, Youngjoong Ko and Jungyun Seo (2007), "Using the Revised EM Algorithm to Remove Noisy Data for Improving the One-against-the-rest Method in Binary Text Classification," *Information Processing & Management*, Pergamon-Elsevier Science, Vol. 43, No. 5, pp. 1281-1293, September 2007. [SSCI]
97. Bojun Shim, Youngjoong Ko and Jungyun Seo (2006), "Using IS-A Relation Patterns for Factoid Questions in Question Answering Systems," *IEICE Transactions on Information and System*, Vol. E89-D, No. 12, pp. 2985-2989, December 2006. [SCIE]
98. Kyungsun Kim, Youngjoong Ko and Jungyun Seo (2005), "Improving Korean Speech Acts Analysis by Using Shrinkage and Discourse Stack," *Lecture Notes in Artificial Intelligence (LNAI)*, in Springer Verlag., Vol. 3651, pp. 731-741, October 2005. [SCIE]
99. Bojun Shim, Youngjoong Ko and Jungyun Seo (2005), "Extracting and Utilizing of IS-A Relation Patterns for Question Answering Systems," *Lecture Notes in Computer Science (LNCS)*, in Springer Verlag. Vol. 3689, pp. 697-702, October 2005. [SCIE]
100. Hyoungdong Han, Youngjoong Ko and Jungyun Seo (2005), "A Text Categorization Method Improved by Removing Noisy Training Documents," *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 32, No. 9, pp. 912-919, September 2005. (in Korean) [연구재단등재]
101. Wooncheol Jung, Youngjoong Ko and Jungyun Seo (2005), "Automatic Text Summarization Using Two-step Sentence Extraction," *Lecture Notes in Computer Science (LNCS)*, in Springer Verlag. Vol. 3411, pp.71-81, March 2005. [SCIE]
102. Youngjoong Ko and Jungyun Seo (2004), "Using Feature Projection Technique based on the Normalized Voting Method for Text Classification," *Information Processing & Management*, Pergamon-Elsevier Science, Vol. 40, No. 2, pp. 191-208, March 2004. [SSCI]
103. Youngjoong Ko and Jungyun Seo (2004) "Text Classification Based on the Feature Projection Technique with Robustness from Noisy Data," *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 31, No. 4, pp. 143-149, April 2004. (in Korean) [연구재단등재]
104. Youngjoong Ko, Jinwoo Park and Jungyun Seo (2004), "Improving Text Categorization Using the Importance of Sentences," *Information Processing & Management*, Pergamon-Elsevier Science, Vol. 40, No. 1, pp. 65-79, January 2004. [SSCI]
105. Youngjoong Ko, Kono Kim and Jungyun Seo (2003), "Topic Keyword Identification for Text Summarization Using Lexical Clustering," *IEICE Transactions on Information and System*, Vol. E86-D, No. 9, pp. 1695-1701, September 2003. [SCIE]
106. Youngjoong Ko, Jinwoo Park and Jungyun Seo (2002), "Improving Text Categorization by Text Summarization Techniques," *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 29, No. 5-6, pp. 417-424, June 2002. (in Korean) [연구재단등재]
107. Sooyong Park, Harksoo Kim, Youngjoong Ko and Jungyun Seo (2000), "Implementation of an Efficient Requirements Analysis Supporting System Using Similarity Measure Techniques," *Information and Software Technology*, Elsevier Science, Vol. 42, No. 6, pp. 429-438, April 2000. [SCIE]
108. Youngjoong Ko, Kisun Kang, Jaeseon Kim, Sooyong Park and Jungyun Seo (2000), "Web-based Requirements Elicitation Supporting System Using Requirements Categorization," *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 27, No. 4, pp. 384-392, April 2000. (in Korean) [연구재단등재]
109. Harksoo Kim, Youngjoong Ko, Sooyong Park and Jungyun Seo (2000), "An Efficient Analysis Method for

User Requirements by Similarity Measure Techniques,” *Journal of Korean Institute of Information Scientists and Engineers (KIISE)*, Vol. 27, No. 1, pp. 13-23, January 2000. (in Korean) [연구재단등재]

Refereed Conference Publications

1. Jaeah You and Youngjoong Ko (2023), “Topic-Informed Dialogue Summarization using Topic Distribution and Prompt-based Modeling,” *Proceedings of 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023, findings)*, in Singapore, December 2023.
2. Youngjae Chang, Dooyoung Kim, Jinyoung Kim, Hyunmook Cha, Keunha Kim, Sooyoung Min, Youngjoong Ko, Kye-Hwan Lee and Joonwoo Park (2023), “Contrastively Pretrained Vision-Language Transformers and Domain Adaptation Methods for Multimodal TOD Systems,” *Proceedings of the DSTC11 Workshop in the 24th Annual Meeting on the Special Interest Group on Discourse and Dialogue (SIGdial 2023)*, in Prague, September 2023.
3. Honghee Lee, Youngjae Chang, Kyuri Choi, Jongwuk Lee and Youngjoong Ko (2023), “Statistical and Generative Models with Subtitle Extraction for Next Product Title Generation,” *Proceedings of the KDD Cup 2023 Workshop in the 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2023)*, in Long Beach, August 2023.
4. Sunyoung Park, Kyuri Choi, Haeun Yu and Youngjoong Ko (2023), “Never Too Late to Learn: Regularizing Gender Bias in Coreference Resolution,” *Proceedings of the 16th ACM International Conference on Web Search and Data Mining (WSDM 2023)*, pp. ?-?, February 2023. [연구재단 SCI 인정 국제 학술대회]
5. Jinyoung Kim, Bonggeun Choi and Youngjoong Ko (2022), “Speech-Act Classification Using a Pretrained Language Model and Graph Attention Network,” *Proceedings of Korea Software Congress 2022 (KSC 2022)*, pp. 383-385, December 2022. (in Korean)
6. Hyunmook Cha, Bonggeun Choi and Youngjoong Ko (2022), “Korean Semantic Role Labeling by Constructing Eojeol Embedding based on BERT,” *Proceedings of Korea Software Congress 2022 (KSC 2022)*, pp. 1430-1432, December 2022. **(Best Paper Award)** (in Korean)
7. Keunha Kim, Bonggeun Choi and Youngjoong Ko (2022), “Dependency Parsing with BERT based on Wordpiece,” *Proceedings of Korea Software Congress 2022 (KSC 2022)*, pp.1436-1438, December 2022. (in Korean)
8. Haeun Lee, Bonggeun Choi and Youngjoong Ko (2022), “Prompt-based Named Entity Recognition using Named Entity Clue Dictionary,” *Proceedings of Korea Software Congress 2022 (KSC 2022)*, pp. 1427-1429, December 2022. **(Best Paper Award)** (in Korean)
9. Choongwon Park and Youngjoong Ko (2022), “QSG Transformer: Transformer with Query-Attentive Semantic Graph for Query-Focused Summarization,” *Proceedings of the 45th Annual International ACM SIGIR Conference (SIGIR 2022)*, pp. 2589-2594, in Madrid, Spain, July 2022. [연구재단 SCI 인정 국제 학술대회]
10. Taehun Huh and Youngjoong Ko (2022), “Lightweight Meta-Learning for Low-Resource Abstractive Summarization,” *Proceedings of the 45th Annual International ACM SIGIR Conference (SIGIR 2022)*, pp. 2629-2933, in Madrid, Spain, July 2022. [연구재단 SCI 인정 국제 학술대회]
11. Dongcheol Son, Youngjae Chang, Youngjoong Ko and Jaehwan Lee (2022), “Domain Adaptive Task-Oriented Dialog System for Deep Understanding of Multimodal Conversation,” *Proceedings of the DSTC10 Workshop in the Thirty-Sixth AAI Conference on Artificial Intelligence (AAAI 2022)*, in Virtual Conference, February 2022.
12. Haeun Yu, Taesuk Hong, Youngjoong Ko and Kwangyong Lee (2022), “Adapting Pre-trained Language Model for Dialogue State Tracking on Spoken Conversations,” *Proceedings of the DSTC10 Workshop in the Thirty-Sixth AAI Conference on Artificial Intelligence (AAAI 2022)*, in Virtual Conference, February 2022.
13. Junhee Cho, Taesuk Hong, Choongwon Park, Jaeha You, Youngjoong Ko and Kwanyoung Son (2022), “Various Uses of Pre-trained Language Model for a Knowledge-grounded Task Oriented Dialogue System,” *Proceedings of the DSTC10 Workshop in the Thirty-Sixth AAI Conference on Artificial Intelligence (AAAI 2022)*, in Virtual Conference, February 2022.

14. Bosung Kim, Hyewon Choi, Haeun Yu and Youngjoong Ko (2021), “Query Reformulation for Descriptive Queries of Jargon Words Using a Knowledge Graph based on a Dictionary,” *Proceedings of the 30th ACM International Conference on Information and Knowledge Management (CIKM 2021)*, pp. 854-862, in Virtual Conference, November 2021. [[연구재단 SCI 인정 국제 학술대회](#)]
15. Meongjun Kim and Youngjoong Ko (2021), “Self-supervised Fine-tuning for Efficient Passage Re-ranking,” *Proceedings of the 30th ACM International Conference on Information and Knowledge Management (CIKM 2021)*, pp. 3142-3146, in Virtual Conference, November 2021. [[연구재단 SCI 인정 국제 학술대회](#)]
16. Dongcheol Son and Youngjoong Ko (2021), “Self-Supervised Learning based on Sentiment Analysis with Word Weight Calculation,” *Proceedings of the 30th ACM International Conference on Information and Knowledge Management (CIKM 2021)*, pp. 3428-3432, in Virtual Conference, November 2021. [[연구재단 SCI 인정 국제 학술대회](#)]
17. Hyewon Choi and Youngjoong Ko (2021), “Using Topic Modeling and Adversarial Neural Networks for Fake News Video Detection,” *Proceedings of the 30th ACM International Conference on Information and Knowledge Management (CIKM 2021)*, pp. 2950-2954, in Virtual Conference, November 2021. [[연구재단 SCI 인정 국제 학술대회](#)]
18. Janghoon Han, Taesuk Hong, Byoungjae Kim, Youngjoong Ko and Jungyun Seo (2021), “Fine-grained Post-training for Improving Retrieval-based Dialogue Systems,” *Proceedings of 2021 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2021)*, pp. 1549-1558, in Mexico City, Mexico, June 2021. [[연구재단 SCI 인정 국제 학술대회](#)]
19. Gihwan Kim and Youngjoong Ko (2021), “Graph-based Fake News Detection using a Summarization Technique,” *Proceedings of the 16th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2021)*, pp. 3276-3280, in Virtual Conference, April 2021. [[연구재단 SCI 인정 국제 학술대회](#)]
20. Bosung Kim, Juae Kim, Youngjoong Ko and Jungyun Seo (2021), “Multi-Task Learning for Knowledge Graph Completion with Pre-trained Language Models,” *Proceedings of the Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI 2021)*, pp. 6393-6401, in Virtual Conference, February 2021. [[연구재단 SCI 인정 국제 학술대회](#)]
21. Byoungjae Kim, Inkwon Lee, Yeonseok Jeong, Youngjoong Ko, Myoung-Wan Koo and Jungyun Seo (2021), “Improving Multimodal API Prediction via Adding Dialog State and Various Multimodal Gates,” *Proceedings of the DSTC9 Workshop in the Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI 2021)*, in Virtual Conference, February 2021.
22. Younghoon Jeong, Sejin Lee, Youngjoong Ko and Jungyun Seo (2021), “TOMM: End-to-End Task-Oriented Multi-Modal Dialogue System with GPT-2,” *Proceedings of the DSTC9 Workshop in the Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI 2021)*, in Virtual Conference, February 2021.
23. Bosung Kim, Taesuk Hong, Youngjoong Ko and Jungyun Seo (2020), “Multi-Task Learning for Knowledge Graph Completion with Pre-trained Language Models,” *Proceedings of the 28th International Conference on Computational Linguistics (COLING 2020)*, pp. 1737-1743, in Virtual Conference, December 2020. [[연구재단 SCI 인정 국제 학술대회](#)]
24. Hyewon Choi, Daesik Jang, Dongcheol Son, Seungwook Lee and Youngjoong Ko, “Adaptive Context-sensitive Spelling Error Correction System Based on Self-attention for Social Network Service Chatting Data,” *Proceedings of the 31th Annual Conference on Human and Cognitive Language Technology (HCLT 2019)*, pp. 362-367, October 2019. (in Korean)
25. Yeongjoon Park, Minyeong Seo, Juae Kim, Youngjoong Ko and Jungyun Seo (2018), “Hierarchical SVM Classifier using Bootstrapping for Domain Expansion in Analysis of Speech Act,” *Proceedings of Korea Software Congress 2018 (KSC 2018)*, pp. 602-604, December 2018. (in Korean)
26. Yongsin Park and Youngjoong Ko (2018), “CNN Based Speech-act Classification Using Sentence Types and Modalities,” *Proceedings of the 30th Annual Conference on Human and Cognitive Language Technology (HCLT 2018)*, pp. 642-648, October 2018. (in Korean)

27. Seon Yang, Heymin Kim and Youngjoong Ko (2018). "Performance Improvement of Mathematical Formula Retrieval Using Two Different Kinds of Embedding," *Proceedings of the 30th Annual Conference on Human and Cognitive Language Technology (HCLT 2018)*, pp. 616-622, October 2018. (in Korean)
28. Hyemin Kim, Seon Yang and Youngjoong Ko (2018), "Effective Korean POS Tagging for Typing Errors Using the Concatenation of Jamo and Syllable Embedding," *Proceedings of the 30th Annual Conference on Human and Cognitive Language Technology (HCLT 2018)*, pp. 574-579, October 2018. (in Korean)
29. Guanghao Xu, Youngjoong Ko and Jungyun Seo (2018), "Expanding Korean/English Parallel Corpora Using Back-translation for Neural Machine Translation," *Proceedings of the 30th Annual Conference on Human and Cognitive Language Technology (HCLT 2018)*, pp. 470-473, October 2018. (in Korean)
30. Bosung Kim, Juae Kim, Jeong0eom Lee, Seona Kim, Youngjoong Ko and Jungyun Seo (2018), "An Effective Sentence Similarity Measure Method Based FAQ System Using Self-Attentive Sentence Embedding," *Proceedings of the 30th Annual Conference on Human and Cognitive Language Technology (HCLT 2018)*, pp. 361-363, October 2018. (in Korean)
31. Jeongmin Yoon and Youngjoong Ko (2018), "A Joint Learning Model for Speech-act Analysis and Slot Filling Using Bidirectional GRU-CRF Based on Attention Mechanism," *Proceedings of the 30th Annual Conference on Human and Cognitive Language Technology (HCLT 2018)*, pp. 252-255, October 2018. (in Korean)
32. Minyeong Seo, Taesuk Hong, Juae Kim, Youngjoong Ko and Jungyun Seo (2018), "Hierarchical Attention Based CNN-RNN Networks for the Korean Speech-act Analysis," *Proceedings of the 30th Annual Conference on Human and Cognitive Language Technology (HCLT 2018)*, pp. 243-246, October 2018. (in Korean)
33. Gihwan Kim, Jisu Seo, Kyungyeol Lee and Youngjoong Ko (2018), "Multi-class Classification System Based on Multi-loss Linear Combination for Word Spacing and Sentence Boundary Detection," *Proceedings of the 30th Annual Conference on Human and Cognitive Language Technology (HCLT 2018)*, pp. 185-188, October 2018. (in Korean)
34. Hongyeon Yu, Seungwoo Lee and Youngjoong Ko (2018), "News Clustering and Multi-Document Summarization for Real-time Issue Analysis," *Proceedings of the 30th Annual Conference on Human and Cognitive Language Technology (HCLT 2018)*, pp. 132-140, October 2018. **(Best Paper Award)** (in Korean)
35. Hongyeon Yu, Seungwoo Lee and Youngjoong Ko (2018), "Summarization Based Multi-news Title Extraction Using Term Relevance Estimation and Byte Pair Encoding," *Proceedings of the 30th Annual Conference on Human and Cognitive Language Technology (HCLT 2018)*, pp. 115-119, October 2018. (in Korean)
36. Jaehyun An and Youngjoong Ko (2018), "Semi-automatic Expansion for a Chatting Corpus Based on Similarity Measure Using Utterance Embedding by CNN," *Proceedings of the 30th Annual Conference on Human and Cognitive Language Technology (HCLT 2018)*, pp. 95-100, October 2018. **(Best Paper Award)** (in Korean)
37. Seungwook Lee, Hongyeon Yu and Youngjoong Ko (2018), "Deep Learning Based Causal Relation Extraction with Expansion of Training Data," *Proceedings of the 30th Annual Conference on Human and Cognitive Language Technology (HCLT 2018)*, pp. 61-68, October 2018. (in Korean)
38. Dongsuk O, Sunjae Kwon, Kyoungsun Kim and Youngjoong Ko (2018), "Word Sense Disambiguation Based on Word Similarity Calculation Using Word Vector Representation from a Knowledge-based Graph," *Proceedings of the 27th International Conference on Computational Linguistics (COLING 2018)*, pp. 2704-2714, in Santa Fe, New-Mexico, USA, August 2018. [연구재단 SCI 인정 국제 학술대회]
39. Jungmin Yoon and Youngjoong Ko (2017), "The Korean Speech-Act Analysis System Based on RNN-CNN for Speech-Act Analysis of Dialogue Level," *Proceedings of Korea Software Congress 2017 (KSC 2017)*, pp. 643-645, December 2017. **(Best Paper Award)** (in Korean)
40. Hongyeon Yoo and Youngjoong Ko (2017), "Economical Sentence Classification Using the Information of N-gram Sentences Based on Topic Matching Measure," *Proceedings of Korea Software Congress 2017 (KSC 2017)*, pp. 622-624, December 2017. (in Korean)

41. Jaehyun An and Youngjoong Ko (2017), “The Korean Dependency Parser for Pointer Networks based on Multi-task learning and Relation Label Distribution of Syllables,” *Proceedings of Korea Software Congress 2017 (KSC 2017)*, pp. 613-615, December 2017. **(Best Paper Award)** (in Korean)
42. Hyemin Kim, Seon Yang and Youngjoong Ko (2017), “Memory and Time Optimization through Reduction of Pre-analyzed Eojeol Dictionaries in Korean POS Analysis,” *Proceedings of Korea Software Congress 2017 (KSC 2017)*, pp. 646-648, December 2017. (in Korean)
43. Yoojin Jeong, Juae Kim, Youngjoong Ko and Jungyun Seo (2017), “Bagging Based Bootstrapping Method to Improve Named Entity Recognition,” *Proceedings of Korea Software Congress 2017 (KSC 2017)*, pp. 631-633, December 2017. **(Best Paper Award)** (in Korean)
44. Juae Kim, Soonjae Kwon, Youngjoong Ko and Jungyun Seo (2017), “A Method to Generate a Machine-labeled Data for Biomedical Named Entity Recognition with Various Sub-Domains,” *Proceedings of International Workshop on Digital Disease Detection Using Social Media (IJCNLP 2017)*, pp. 47-51, in Taiwan, Nov. 2017.
45. Soonjae Kwon, Youngjoong Ko and Jungyun Seo (2017), “A Robust Named-Entity Recognition System Using Syllable Bigram Embedding with Eojeol Prefix Information,” *Proceedings of the 26th ACM International Conference on Information and Knowledge Management (CIKM 2017)*, pp. 2139-2142, in Singapore, Nov. 2017. [연구재단 SCI 인정 국제 학술대회]
46. Hongsun Yeom, Youngjoong Ko and Jungyun Seo (2017), “User Utterance’s Intent Detection in Dialogue System with Syllable Embedding Using Convolutional Neural Network,” *Proceedings of Korea Computer Congress 2017 (KCC 2017)*, pp. 618-620, June 2017. (in Korean)
47. Juae Kim, Hongsun Yeom, Youngjoong Ko and Jungyun Seo. (2017), “How to Utilize Named Entity Analysis to Improve Sentiment Analysis,” *Proceedings of Conference on Korean Cognitive Science Society*, May 2017. (in Korean)
48. Hongyeon Yu and Youngjoong Ko. (2017), “Car Manual Analysis for Constructing a Causal Relation Annotated Corpus,” *Proceedings of Conference on Korean Cognitive Science Society*, May 2017. (in Korean)
49. Jungmin Yoon and Youngjoong Ko. (2017), “A Semantic Role Labeling Model based on Bi-LSTM-CRFs using Expanded Word Representation by SRL Label Distribution of Syllable,” *Proceedings of Conference on Korean Cognitive Science Society*, May 2017. (in Korean)
50. Hyemin Kim, Jungmin Yoon, Jaehyun An, Kyoungman Ba and Youngjoong Ko. (2016), “Syllable-based Korean POS Tagging using POS Distribution and Bidirectional LSTM CRFs.” *Proceedings of the 28th Annual Conference on Human and Cognitive Language Technology (HCLT 2016)*, pp. 3-8, October 2016. (in Korean)
51. Hongyeon Yu and Youngjoong Ko. (2016), “Named Entity Recognition Using Bidirectional LSTM CRFs Based on the POS Tag Embedding and the Named Entity Distribution of Syllables.” *Proceedings of the 28th Annual Conference on Human and Cognitive Language Technology (HCLT 2016)*, pp. 105-110, October 2016. **(Best Paper Award)** (in Korean)
52. Jaehyun An, Hokyung Lee and Youngjoong Ko. (2016), “Korean Dependency Relation Labeling Using Bidirectional LSTM CRFs Based on the Dependency Path and the Dependency Relation Label Distribution of Syllables.” *Proceedings of the 28th Annual Conference on Human and Cognitive Language Technology (HCLT 2016)*, pp. 14-19, October 2016. (in Korean)
53. Hokyung Lee, Kyoungman Bae and Youngjoong Ko. (2016), “A Similarity-based Dialogue Modeling with Case Frame and Word Embedding.” *Proceedings of the 28th Annual Conference on Human and Cognitive Language Technology (HCLT 2016)*, pp. 220-225, October 2016. (in Korean)
54. Jungmin Yoon, Kyoungman Ba and Youngjoong Ko. (2016), “Korean Semantic Role Labeling Based on Bidirectional LSTM CRFs Using the Semantic Label Distribution of Syllables.” *Proceedings of the 28th Annual Conference on Human and Cognitive Language Technology (HCLT 2016)*, pp. 324-332, October 2016. (in Korean)
55. Juryong Cheon and Youngjoong Ko. (2015), “Improving Query Translation by Extracting Parallel Sentences from Wikipedia for Cross-Language Information Retrieval.” *Proceedings of the 27th Annual Conference on*

- Human and Cognitive Language Technology (HCLT 2015)*, pp. 35-40, October 2015. **(Best Paper Award)** (in Korean)
56. Jungmin Yoon, Jaewon Hwang and Youngjoong Ko. (2015), "Semi-automatic Object-Action Extractor to Build the Utterance Corpus for the Dialogue System." *Proceedings of the 27th Annual Conference on Human and Cognitive Language Technology (HCLT 2015)*, pp. 220-223, October 2015. (in Korean)
 57. Changsu Lee, Youngjoong Ko and Jungyun Seo. (2015), "A Simultaneous Recognition Framework for the Spoken Language Understanding Module of Intelligent Personal Assistant Software on Smart Phones." *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics (ACL 2015)*, pp. 818-822, in Beijing, China, July 2015. [연구재단 SCI 인정 국제 학술대회]
 58. Namhoon Song, Kyoungman Bae and Youngjoong Ko. (2015), "Efficient Korean Speech-Act Classification Using a Classification Priority Application and a Post Correction Rule." *Proceedings of Korea Computer Congress 2015 (KCC 2015)*, June 2015. **(Best Paper Award)** (in Korean)
 59. Taehyun Kim, Changsu Lee, Jaewon Hwang and Youngjoong Ko. (2015), "Automatic Acquisition of Korean Named Entity Annotated Corpus from Wikipedia." *Proceedings of Korea Computer Congress 2015 (KCC 2015)*, June 2015. (in Korean)
 60. Hokyung Lee, Seon Yang and Youngjoong Ko. (2014), "A Twitter Users' Tendency Clustering Method Using LDA Word Distributions for Complexity Reduction." *Proceedings of Winter Conference on Korean Institute of Information Scientists and Engineers (KIISE 2014)*, pp. 471-473, December 2014. (in Korean)
 61. Kyoungman Bae and Youngjoong Ko (2014), "An Effective Question Expanding Method for Question Classification in cQA services," *Proceedings of the 7th Workshop for Ph.D Students at CIKM 2014*, pp. 51-55, in Shanghai, China, Nov. 2014.
 62. Juryong Cheon and Youngjoong Ko. (2014), "Extracting Korean-English Parallel Sentences Based on the Measure of Sentences Similarity Using the Sequential Matching of Heterogeneous Language Resources." *Proceedings of the 26th Annual Conference on Human and Cognitive Language Technology (HCLT 2014)*, pp. 127-132, October 2014. **(Best Paper Award)** (in Korean)
 63. Jaewon Hwang and Youngjoong Ko. (2014), "Dual SMS SPAM Filtering: A Graph-based Feature Weighting Method." *Proceedings of the 26th Annual Conference on Human and Cognitive Language Technology (HCLT 2014)*, pp. 95-99, October 2014. (in Korean)
 64. Seon Yang and Youngjoong Ko. (2014), "Extracting Multi-type Elements Consisting of Multi-words from Sentences," *Proceedings of the 26th Annual Conference on Human and Cognitive Language Technology (HCLT 2014)*, pp. 73-77, October 2014. (in Korean)
 65. Changsu Lee and Youngjoong Ko. (2014), "An Out-of-vocabulary Processing Technology for the Spoken Language Understanding Module of a Dialogue Based Private Secretary Software," *Proceedings of the 26th Annual Conference on Human and Cognitive Language Technology (HCLT 2014)*, pp. 3-8, October 2014. (in Korean)
 66. Soonpil Jang, Youngmin Park, Sangwoo Kang, Myoungwan Koo, Jungyun Seo, Harksoo Kim and Youngjoong Ko (2013), "A Dialogue Platform for an Interactive Personal Assistant Software," *Proceedings of Fall Conference on Korean Institute of Information Scientists and Engineers (KIISE 2010)*, pp. 572-574, November 2013. (in Korean)
 67. Seon Yang and Youngjoong Ko. "Re-ranking Search Results for mathematical Equation Retrieval Using Topic Models," *Proceedings of the 25st Annual Conference on Human and Cognitive Language Technology (HCLT 2013)*, pp. 77-81, October 2013. (in Korean)
 68. Changsu Lee and Youngjoong Ko (2013), "A Simultaneous Recognition Technology of Named Entities and Objects for a Dialogue Based Private Secretary Software," *Proceedings of the 25st Annual Conference on Human and Cognitive Language Technology (HCLT 2013)*, pp. 18-23, October 2013. **(Best Paper Award)** (in Korean)
 69. Hokyung Lee, Juryong Chun, Namhoon Song and Youngjoong Ko (2013), "Analyzing ages, gender, location on Twitter Using LDA," *Proceedings of the 25st Annual Conference on Human and Cognitive Language Technology (HCLT 2013)*, pp. 116-119, October 2013. (in Korean)

70. Kyoungman Bae and Youngjoong Ko (2012), "An Effective Category Classification Method Based on a Language Model for Question Category Recommendation on a cQA service," *Proceedings of the 21st ACM International Conference on Information and Knowledge Management (CIKM 2012)*, pp. 2255-2258, in Maui Hawaii, USA, Oct-Nov. 2012. [연구재단 SCI 인정 국제 학술대회]
71. Shinil Kim, Seon Yang and Youngjoong Ko (2012), "Mathematical Equation Retrieval Using Plain Words as a Query," *Proceedings of the 21st ACM International Conference on Information and Knowledge Management (CIKM 2012)*, pp. 2407-2410, in Maui Hawaii, USA, Oct-Nov. 2012. [연구재단 SCI 인정 국제 학술대회]
72. Youngjoong Ko (2012), "A Study of Term Weighting Schemes Using Class Information for Text Classification," *Proceedings of the 30th Annual International ACM SIGIR Conference (SIGIR 2012)*, pp. 1029-1030, in Portland Oregon, USA, August 2012. [연구재단 SCI 인정 국제 학술대회]
73. Junyoung Lee, Seon Yang and Youngjoong Ko (2012), "Mathematical Equation Retrieval by Converting Plaintext Queries into MathML Terms," *Proceedings of Korea Computer Congress 2012 (KCC 2012)*, Vol. 39, No. 1(B), pp. 312-314, June 2012. **(Best Paper Award)** (in Korean)
74. Seon Yang and Youngjoong Ko (2011), "Extracting Comparative Entities and Predicates from Texts Using Comparative Type Classification," *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies (ACL-HLT 2011)*, pp. 1636-1644, in Portland Oregon, USA, June 2011. [연구재단 SCI 인정 국제 학술대회]
75. Sunghyun Kim, Kyoungman Bae and Youngjoong Ko (2011), "The Efficient Named Entity Extraction Method Based on Ontology in a Schedule and a Personal Information Management Domain," *Proceedings of KIISE Symposium Ubiquitous Computing and Web Information Technology 2011 (UCWIT 2011)*, Vol. 5, No. 3, pp. 177-182, December 2011. (in Korean)
76. Seon Yang and Youngjoong Ko (2011), "Extracting Comparative Elements from Comparative Sentence," *Proceedings of Korea Computer Congress 2011 (KCC 2011)*, Vol. 38, No. 1(A), pp. 225-228, June 2011. **(Best Paper Award)** (in Korean)
77. Shinil Kim, Seon Yang and Youngjoong Ko (2011), "A Mathematical Equation Retrieval System Based on Formula Patterns Expressed in Korean," *Proceedings of Korea Computer Congress 2011 (KCC 2011)*, Vol. 38, No. 1(A), pp. 233-236, June 2011. (in Korean)
78. Jaewon Hwang, Yonghyun Park and Youngjoong Ko (2010), "The Effective Dialogue Modeling for Intelligent Companion Robot," *Proceedings of Fall Conference on Korean Institute of Information Scientists and Engineers (KIISE 2010)*, Vol. 37, No. 2(A), pp. 44-45, November 2010. (in Korean)
79. Sungho Kim, Sangjoon Bae and Youngjoong Ko (2010), "Ambiguity Resolution and Expansion of Query using Wikipedia," *Proceedings of Fall Conference on Korean Institute of Information Scientists and Engineers (KIISE 2010)*, Vol. 37, No. 2(A), pp. 46-47, November 2010. **(Best Paper Award)** (in Korean)
80. Shinil Kim, Seon Yang and Youngjoong Ko (2010), "A Comparative Study on Feature Combination for MathML Formula Classification," *Proceedings of the 22nd Annual Conference on Human and Cognitive Language Technology (HCLT 2010)*, pp. 37-41, September 2010. (in Korean)
81. Yonghyun Park, Jaewon Hwang and Youngjoong Ko (2009), "A Light-weighted Noun Extractor for Mobile Information Retrieval," *Proceedings of KIISE Symposium Ubiquitous Computing and Web Information Technology (UCWIT 2009)*, Vol. 3, No. 2, pp. 167-171, December. 2009. (in Korean)
82. Shinil Kim, Seon Yang and Youngjoong Ko (2009), "A Light-weighted Automatic Segmentation System Using Syllable Features," *Proceedings of KIISE Symposium Ubiquitous Computing and Web Information Technology (UCWIT-2009)*, Vol. 3, No. 2, pp. 163-166, December. 2009. (in Korean)
83. Sangjoon Bae and Youngjoong Ko (2009), "Automatic Construction of Korean Named Entity Dictionaries from Wikipedia," *Proceedings of Fall Conference on Korean Institute of Information Scientists and Engineers (KIISE 2009)*, Vol. 36, No. 2(A), pp. 78-79, November. 2009. **(Best Paper Award)** (in Korean)
84. Jaewon Hwang and Youngjoong Ko (2009), "A Semantic Orientation Method of Sentiment Features Based on the General and Domain-Dependent Characteristics," *Proceedings of the 21th Annual Conference on Human and Cognitive Language Technology (HCLT 2009)*, pp. 155-159, October. 2009. (in Korean)

85. Seon Yang and Youngjoong Ko (2009), "Classifying Korean Comparative Sentences Using Transformation-based Learning," *Proceedings of the 21th Annual Conference on Human and Cognitive Language Technology (HCLT 2009)*, pp. 31-34, October. 2009. **(Best Paper Award)** (in Korean)
86. Seon Yang and Youngjoong Ko (2009), "Extracting Comparative Sentences from Korean Text Documents Using Comparative Lexical Patterns and Machine Learning Techniques," *Proceedings of Joint Conference of the 47th Annual Meeting of the Association for Computational Linguistics and the 4th International Joint Conference on Natural Language Processing of the Asian Federation of Natural Language Processing (ACL-IJCNLP 2009)*, pp. 153-156, in Singapore, Aug. 2009. [연구재단 SCI 인정 국제 학술대회]
87. Hyounil Jeong, Youngjoong Ko and Jungyun Seo (2009), "A News Article Summarization Method Using the Pseudo Relevance Feedback Technique," *Proceedings of Korea Computer Congress 2009 (KCC 2009)*, pp. 101-104, July. 2009. (in Korean)
88. Jaewon Hwang and Youngjoong Ko (2008), "A Weight Boosting Method of Sentiment Features for Korean Document Sentiment Classification," *Proceedings of the 20th Annual Conference on Human and Cognitive Language Technology (HCLT 2008)*, pp. 200-205, October. 2008. (in Korean)
89. Seon Yang and Youngjoong Ko (2008), "Extracting Korean Comparative Sentences by Machine Learning Techniques," *Proceedings of the 20th Annual Conference on Human and Cognitive Language Technology (HCLT 2008)*, pp. 182-187, October. 2008. (in Korean)
90. Sangjoon Bae and Youngjoong Ko (2008), "Automatic Named Entities Extraction Using the Graph-based Measurement Technique of the Mutual Importance," *Proceedings of the 20th Annual Conference on Human and Cognitive Language Technology (HCLT 2008)*, pp. 17-22, October. 2008. **(Best Paper Award)** (in Korean)
91. Kyoungman Bae, Jongtak Back, Youngjoong Ko and Jonghoon Kim (2008), "An Automated FAQ Answering System Based on Sentence Normalization Using Korean Sentence Patterns," *Proceedings of the 20th Annual Conference on Human and Cognitive Language Technology (HCLT 2008)*, pp. 171-175, October. 2008. (in Korean)
92. Sangwoo Kang, Hongmin Park, Youngjoong Ko and Jungyun Seo (2008), "The Corpus-based Dialogue System Using a Dialogue Transition Network and a Similarity Measure Method," *Proceedings of the 20th Annual Conference on Human and Cognitive Language Technology (HCLT 2008)*, pp. 161-165, October. 2008. (in Korean)
93. Sangwoo Kang, Youngjoong Ko and Jungyun Seo (2008), "A Plan-based Dialogue Model Using a Discourse Stack for Intelligent Human-Robot Interface Development," *Proceedings of the 7th International Conference on Advanced Language Processing and Web Information Technology (ALPIT 2008)*, pp. 162-167, in Dalian, Liaoning, China, July 2008.
94. Kyoungman Bae, Youngjoong Ko, Hoseop Choe and Jonghoon Kim (2007), "A Clustering Method Based on K-means Algorithm for Paper Search Results," *Proceedings of the KIISE IT Symposium*, Vol. 1, No. 1, pp. 217-222, December 2007. (in Korean)
95. Jeawon Hwang and Youngjoong Ko (2007), "A Korean Sentiment Classification System Using Effective Emotion Features," *Proceedings of Fall Conference on Korean Institute of Information Scientists and Engineers (KIISE 2007)*, pp 60-61, October 2007. **(Best Paper Award)** (in Korean)
96. Youngjoong Ko, Hongkuk An and Jungyun Seo (2007), "An Effective Snippet Generation Method Using the Pseudo Relevance Feedback Technique," *Proceedings of the 30th Annual International ACM SIGIR Conference, Poster Session (SIGIR 2007)*, pp.711-712, in Amsterdam, The Netherlands, July 2007. [연구재단 SCI 인정 국제 학술대회]
97. Byoungwoo Kim and Youngjoong Ko (2007), "The Design and Implementation of an Information Retrieval System Using Lexico-Semantic Pattern and Ontology," *Proceedings of Conference on Human and Computer Interaction (HCI 2007)*, Vol. 1, pp. 957-962, February 2007. (in Korean)
98. Jeawon Hwang, Taegyun Jeon and Youngjoong Ko (2007), "A Sentiment Classification System Using Feature Extraction from Seed Words and Support Vector Machine," *Proceedings of Conference on Human and Computer Interaction (HCI 2007)*, Vol. 1, pp. 938-942, February 2007. (in Korean)

99. Hongguk An, Youngjoong Ko and Jungyun Seo (2007), "An Effective Snippet Generation Method Using Text Summarization Techniques Based on Pseudo Relevance Feedback," *Proceedings of Conference on Human and Computer Interaction (HCI 2007)*, Vol. 1, pp. 174-181, February 2007. (in Korean)
100. Sangwoo Kang, Youngjoong Ko and Jungyun Seo (2006), "Using Plan Recognition and a Discourse Stack for Efficient Response Generation in a Dialogue System," *Proceedings of the 18th Annual Conference on Human and Cognitive Language Technology (HCLT 2006)*, pp. 177-182, October 2006. (in Korean)
101. Sangwoo Kang, Youngjoong Ko and Jungyun Seo (2006), "A Plan-based Model for Efficient Response Generation in Dialogue User Interface," *The 3rd CIR-COE Joint Workshop On Robot Technologies for Human-Robot Coexistence*, in KIST, Seoul, Korea, September, 2006.
102. Sangwoo Kang, Youngjoong Ko and Jungyun Seo (2006), "The Design of a Plan-based Dialogue Model for Intelligent Human-Robot Development," *The 6th Workshop for Robot Development Technologies*, August 2006. (in Korean)
103. Bojun Shim, Youngjoong Ko and Jungyun Seo (2005), "Extracting and Utilizing of IS-A Relation Patterns for Question Answering Systems," *Proceedings of Asia Information Retrieval Symposium (AIRS 2005)*, in Jeju, Korea, October 2005.
104. Kyungsun Kim, Youngjoong Ko and Jungyun Seo (2005), "Improving Korean Speech Acts Analysis by Using Shrinkage and Discourse Stack," *Proceedings of The Second International Joint Conference on Natural Language Processing (IJCNLP 2005)*, in Jeju, Korea, October 2005.
105. Hyoungdong Han, Youngjoong Ko and Jungyun Seo (2004), "Improving Binary Text Classification Using the EM Algorithm," *Proceedings of Asian Information Retrieval Symposium, Poster Session (AIRS 2004)*, in Beijing, China, pp.325-328, October 2004.
106. Wooncheol Jung, Youngjoong Ko and Jungyun Seo (2004), "Automatic Text Summarization Using Two-step Sentence Extraction," *Proceedings of Asian Information Retrieval Symposium (AIRS 2004)*, in Beijing, China, pp.43-48, October 2004.
107. Hyoungdong Han, Youngjoong Ko and Jungyun Seo (2004), "Improving Performance of Binary Text Classification Using the EM Algorithm," *Proceedings of Fall Conference on Korean Institute of Information Scientists and Engineers (KIISE 2004)*, pp. 790-792, October 2004. (in Korean)
108. Wooncheol Jung, Youngjoong Ko and Jungyun Seo (2004), "Text Summarization with Two Step Sentence Extraction," *Proceedings of Spring Conference on Korean Institute of Information Scientists and Engineers (KIISE 2004)*, pp. 910-912, April 2004. (in Korean)
109. Bojun Shim, Youngjoong Ko, Harksoo Kim and Jungyun Seo (2004), "Extracting and Utilizing is-a Relation Patterns for Question Answering System," *Proceedings of the 16th Annual Conference on Human and Cognitive Language Technology (HCLT 2004)*, pp. 181-188, October 2004. (in Korean)
110. Youngjoong Ko and Jungyun Seo (2004), "Learning with Unlabeled Data for Text Categorization Using a Bootstrapping and a Feature Projection Technique," *Proceedings of the 42nd Annual Meeting of the Association for Computational Linguistics (ACL 2004)*, pp.255-262, in Barcelona, Spain, July 2004. [연구재단 SCI 인정 국제 학술대회]
111. Youngjoong Ko and Jungyun Seo (2002), "Text Categorization Using Feature Projections," *Proceedings of the 19th International Conference on Computational Linguistics (COLING 2002)*, pp. 467-473, August 2002. [연구재단 SCI 인정 국제 학술대회]
112. Youngjoong Ko, Jinwoo Park and Jungyun Seo (2002), "Automatic Text Categorization Using the Importance of Sentences," *Proceedings of the 19th International Conference on Computational Linguistics (COLING 2002)*, pp.474-480, August 2002. [연구재단 SCI 인정 국제 학술대회]
113. Kono Kim, Youngjoong Ko and Jungyun Seo (2002), "Automatic Text Summarization with Lexical Clustering," *Proceedings of Spring Conference on Korean Institute of Information Scientists and Engineers (KIISE 2002)*, pp.463-465, April 2002. (in Korean)
114. Choong-Nyoung Seon, Youngjoong Ko, Jeong-Seok Kim and Jungyun Seo (2001), "Named Entity Recognition Using Machine Learning Methods and Pattern-Selection Rules," *Proceedings of 6th Natural Language Processing Pacific Rim Symposium (NLPRS 2001)*, pp. 229-236, November 2001.

115. Jinwoo Park, Youngjoong Ko and Jungyun Seo (2001), "Automatic Text Categorization Using Text Summarization Techniques," *Proceedings of the 13th Annual Conference on Human and Cognitive Language Technology (HCLT 2006)*, pp.138-145, October 2001. (in Korean)
116. Youngjoong Ko and Jungyun Seo (2000), "Automatic Text Categorization by Unsupervised Learning," *Proceedings of the 18th International Conference on Computational Linguistics (COLING 2000)*, pp. 453-459, July 2000. [연구재단 SCI 인정 국제 학술대회]
117. Youngjoong Ko, Sooyong Park and Jungyun Seo (2000), "Web-based Requirements Elicitation Supporting System Using Requirements Sentences Categorization," *Proceedings of Twelfth International Conference on Software Engineering and Knowledge Engineering (SEKE 2000)*, pp. 344-351, July 2000.
118. Harksoo Kim, Youngjoong Ko, Sooyoung Park and Jungyun Seo (1999), "Informal Requirements Analysis Supporting System for Human Engineer," *Proceedings of Conference on IEEE SMC99*, Vol. 3, pp. 1013-1018, October 1999. [연구재단 SCI 인정 국제 학술대회]
119. Harksoo Kim, Youngjoong Ko, Sooyoung Park and Jungyun Seo (1999), "Efficient Analysis of User Requirements by Measuring the Similarity of Documents," *Proceedings of Conference on Human and Computer Interaction (HCI 1999)*, pp.73-79, February 1999. (in Korean)
120. Youngjoong Ko and Jungyun Seo (1999), "Speech Act Analysis with Facial Expressions and Gestures in a Multi-modal Dialogue System," *Proceedings of Conference on Korea Cognitive Science Society*, pp.199-204, May 1999. (in Korean)

8. Books and Technical Reports

1. Youngjoong Ko et al. *An Introduction to Information Processing*, in Life & Power Press. [ISBN 978-89-7050-576-3 93560]
2. Youngjoong Ko et al. *The Study on the Construction of Science Technology Thesaurus*, in Korean Institute of Science and Technology Information. [ISBN 89-5884-663-1 93500]
3. Youngjoong Ko, *The Construction of General and IT Category Maps and Category Tagging on Thesaurus*, supported by Korean Institute of Science and Technology Information. [K-06-IS-01-03R-6]

9. Transfer of Technical Know-how

"Sentence Generation Techniques for Augmentative and Alternative Communication (AAC)," Voicware Co., LTD, September 2014.

"Unsupervised Learning Based Keyphrase Extraction from a Single Document by the Effective Combination of a Graph-based Model and the modified C-Value Method," WeINTERACT Co., February 2022.

10. Patents

"Apparatus and Method for Providing Dialogue Response of Persona based Dialogue System, Learning Method for Providing Dialogue Response in Persona Based Dialogue System," Patent Application (#10-2023-0162473, November 2023)

"Conversation Summary Apparatus and Method and Learning Method Thereof," Patent Application (#10-2023-0152700, November 2023)

"Language Model Learning Method, Language Model Learning Apparatus and Emotion Prediction Apparatus using the Same," Patent Application (#10-2023-0150819, November 2023)

“Method for Learning of Document Summarization Model, Method and Device for Summarizing Document using Learned Summarization Model,” Patent Application (#10-2023-0088351, July 2023)

“Apparatus and Method for Expanding Knowledge Graph,” Patent Application (#10-2023-0040045, March 2023)

“Method and Device for Pre-training of Language Model,” Patent Application (#10-2023-0032434, March 2023)

“Apparatus, Method, Computer-readable Storage Medium and Computer Program for Detecting Zero-shot Stance based on Adversarial Learning and Meta-learning,” Patent Application (#10-2023-0023577, February 2023)

“Apparatus, Method, Computer-readable Storage Medium and Computer Program for Summarizing Document based on Query Attention,” Patent Application (#10-2023-0023537, February 2023)

“Method and Device for Generating Answer to Conversation with User using a Contrast Learning Technique,” Patent Application (#10-2023-0023608, February 2023)

“Apparatus and method for tracking conversation state,” Patent Application (#10-2023-0023050, February 2023)

“Apparatus and method for learning deep learning model, and apparatus and method for searching video based on the deep learning model,” Patent Application (#10-2023-0023010, February 2023)

“Learning Method of Document Retrieval Model and Apparatus Supporting the Same,” Patent Application (#10-2021-0118685, September 2021)

“Data Learning Method using Sentiment Analysis System,” Patent Application (#10-2021-0113440, August 2021)

“Apparatus and Method for Fake Video Detection,” Patent Application (#10-2021-0108936, August 2021)

“Apparatus and Method for Analyzing Sentiment based on Artificial Neural Network and Learning Method Thereof,” Patent Application (#10-2021-0046536, April 2021)

“The Fake News Video Detection System and Method,” Patent Application (#10-2021-0022638, February 2021) and Registration (Korean Patent #10-2435035, August 2022)

“Method and Apparatus for Summarizing Documents using Keyword Clustering,” Patent Application (#10-2020-0106414, August 2020) and Registration (Korean Patent #10-2402466, May 2022)

“Device and Method for Analyzing Speech-act,” Patent Application (#10-2018-0147852, November 2018) and Registration (Korean Patent #10-2024845, September 2019)

“System and Method for Expansion Chatting Corpus Based on Similarity Measure Using Utterance Embedding by CNN,” Patent Application (#10-2018-0119113, October 2018) and Registration (Korean Patent #10-2109866, May 2020)

“System and Method for Extracting Deep Learning Based Causal Relation with Expansion of Training Data,” Patent Application (#10-2018-0119107, October 2018) and Registration (Korean Patent #10-2109860, May 2020)

“System and Method for Korean POS Tagging Using the Concatenation of Jamo and Syllable Embedding,” Patent Application (#10-2018-0119102, October 2018) and Registration (Korean Patent #10-2109858, May 2020)

“Keyword Extraction Method and Apparatus for Science Document,” Patent Application (#10-2017-0145461, November 2017) and Registration (Korean Patent #10-2017227, August 2019).

“Named-entity Recognition Method and Apparatus for Korean,” Patent Application (#10-2017-013497010, October 2017) and Registration (Korean Patent #10-1941692, January 2019).

“Method for Natural Language Understanding Based on Distribution of Task-specific Labels,” Patent Application (#10-2017-0104871, August 2017).

“Syllable-based Korean POS Tagging Using POS Distribution and Bidirectional LSTM CRFs and Method of the same,” Patent Application (#10-2017-0104916, August 2017) and Patent Registration (Korean Patent #10-1997783, July 2019).

“System and Method for Sentence Embedding and Similar Question Retrieving,” Patent Application (#10-2017-0060425, May 2017) and Registration (Korean Patent #10-1923650, November 2018).

“Method for Improvement of Efficiency of Biology Medical Terminology Named Entity Recognition Apparatus Using Automatic Labeling Learning Data Based on Bootstrapping Technique,” Patent Application (#10-2017-0020231, February 2017).

“Query Translator and Method for Cross-language Information Retrieval using Linguistic Resources from Wikipedia and Parallel Corpus,” Patent Application (#10-2014-0090447, July 2014) and Registration (Korean Patent #10-1616031, April 2016).

“Plain Text Query Based Mathematical Formula Retrieval,” Patent Application (#10-2014-0059144, May 2014) and Registration (Korean Patent #10-1567904, November 2015).

“A Simultaneous Recognition Technology for the Language Understanding Module of a Dialogue System,” Patent Application (#10-2014-0059159, May 2014) and Registration (Korean Patent #10-1559576, October 2015).

“Feature Weighting Apparatus for User Utterance Information Classification in Dialogue System and Method of the Same,” Patent Application (#10-2014-0080978, June 2014) and Registration (Korean Patent #10-1565143, October 2015).

“User Terminal and Method for Providing Summary of Web Page,” Patent Application (#10-2008-0009731, January 2007).

“Automatic Text Categorization Method based on Unsupervised Learning, Using Keywords of Each Category and Measurement of the Similarity between Sentences,” Patent Application (#2001-0012318, March 2001) and Registration (Korean Patent #10-0420096, February 2003).

11. Program Copyrights

“Library to utilize Bert-based WordNet,” (C-2023-051073, November 2023)

“Co-occurrence Matrix Generation Program for the Relation Detection of Corpus,” (C-2023-052697, November 2023)

“Keyword Extraction by Embeddings of Pretrained Language Models and Graphs,” (C-2023-052182, November 2023)

“Pseudo Relevance Feedback,” (C-2023-051890, November 2023)

“Prompt-based Named Entity Recognition using Named Entity Clue Dictionary,” (C-2022-044022, December 2022)

2022)

“Dependency Parsing with BERT based on Word Piece Model,” (C-2022-044112, December 2022)

“Korean Semantic Role Labeling System,” (C-2022-044862, December 2022)

“Speech-Act Classification Using a Pretrained Language Model and Graph Attention Network,” (C-2022-043884, December 2022)

“Convergence System based on Rules and Generative Networks for Solving Natural Language Math Problems,” (C-2021-044028, November 2021)

“TRIE Algorithm System for Dialogue System Based on External Knowledge,” (C-2021-040959, October 2021)

“Persona-based Multi-domain Korean Dialogue Data Construction Program,” (C-2020-050626, December 2020)

“Bert based Sentiment Analysis System using Post-training and Knowledge-base,” (C-2020-049204, December 2020)

“Persona-based Multi-domain Korean Dialogue Data Construction Program,” (C-2020-050626, December 2020)

“Named Entity Program using the Distant Supervision Method,” (C-2019-043819, December 2019)

“Deep Learning Based Causal Relation Analysis Program,” (C-2018-033948, November 2018)

“Real Time News-Articles Hierarchical Clustering Program,” (C-2018-029728, October 2018)

“Multi News-Articles Summarization System,” (C-2018-029727, October 2018)

“Korean Dependency Parser for Label Auto-generation,” (C-2017-029032, November 2017)

“Korean Dependency Parser for Label Auto-generation,” (C-2017-003030, January 2017)

12. Research Grants

1. Principal Investigator, “A Study on User Feedback-induced Question Generation for Rewriting user-centered queries,” NCSOFT Corp., July 2023 to December 2023.
2. Principal Investigator, “Featured Snippet Expansion by Question-Answer Generation,” Naver Corp., March 2023 to March 2024.
3. Co-Principal Investigator, “Expertise Targeted Explainable AI for Supporting Decision-Making,” Ministry of Science and ICT (IITP), April 2022 to December 2026.
4. Principal Investigator, “Acquisition of Multimodal DSTC11 Technologies,” LG Electronics Corp., July 2021 to December 2021.
5. Principal Investigator, “Dialogue System based on Large-scaled Pretrained Models,” LG Electronics Corp., July 2021 to December 2021.
6. Principal Investigator, “Integrated Learning based Dialogue Systems Using Heterogeneous Knowledge Graphs,” National Research Foundation of Korea (NRF), September 2020 to February 2024.
7. Co-Principal Investigator, “ICT Luxury Talents Training Project,” Ministry of Science and ICT (IITP), July 2020 to December 2029.
8. Co-Principal Investigator, “Data Construction for AI Training Data (Natural Language/Free Dialogue),” Ministry of Science and ICT (NIA), July 2020 to December 2020.
9. Principal Investigator, “A Study of Query Reformulation Using a Dictionary based Chinese Character Graph,” Naver Corp., July 2020 to June 2021.

10. Principal Investigator, "A Neural-Symbolic Model for Knowledge Acquisition and Inference Techniques," Ministry of Science and ICT (IITP), April 2020 to December 2023.
11. Principal Investigator, "Development of the TripleQA System Using Triple Embedding," Electronics and Telecommunications Research Institute (ETRI), May 2020 to November 2020.
12. Principal Investigator, "AI Dialogue Analysis Research," National Digital Forensic Center (NDFC), May 2019 to November 2019.
13. Principal Investigator, "Development of Deep Learning Based Property Linking Technique for TripleQA," Electronics and Telecommunications Research Institute (ETRI), May 2019 to November 2019.
14. Co-Principal Investigator, "Development of an IR based Question-Answering System for Service Robots," Hyundai Motors, Co., November 2018 to August 2019.
15. Principal Investigator, "Development of the Slot Filling Technique for the Discourse Analysis of Question-Answers in Specialized Field," Electronics and Telecommunications Research Institute (ETRI), May 2018 to November 2018.
16. Principal Investigator, "Development of the Clustering and Summarization Technique for News Multi-Documents by Focusing on Issues," Korean Institute of Science and Technology Information (KISTI), May 2018 to October 2018.
17. Co-Principal Investigator, "Development of a FAQ system Using Similarity Measure Methods," Hyundai Motors, Co., November 2017 to August 2018.
18. Principal Investigator, "Speech-act analysis of colloquial questions for the discourse analysis of question-answers in specialized field," Electronics and Telecommunications Research Institute (ETRI), June 2017 to November 2017.
19. Co-Principal Investigator, "Development of Automatic Text Data Labeling and Verification Tools for Machine Learning," Ministry of Science, ICT and Future Planning (IITP), April 2017 to December 2019.
20. Co-Principal Investigator, "Development of Distance Speech Recognition and Multi-task Dialogue Processing Techniques for Speech Dialogue Robots," Ministry of Science, ICT and Future Planning, May 2016 to April 2020.
21. Principal Investigator, "Entity Linking for Expanding WiseWordNet," Electronics and Telecommunications Research Institute (ETRI), May 2016 to January 2017.
22. Principal Investigator, "Development of Query Classification, Retrieval and Answer Recommendation Systems for the cQA Service Using Deep Learning Techniques," National Research Foundation of Korea (NRF), November 2015 to October 2018.
23. Co-Principal Investigator, "Development of a Medical Entity Recognition and Sentence Embedding Techniques for Medical Information Retrieval," LG Electronics, April 2016 to December 2016.
24. Principal Investigator, "Construction of Multi-language Resources and Development of their Utilization Systems for Big Data Analysis," National Research Foundation of Korea (NRF), June 2013 to May 2016.
25. Co-Principal Investigator, "Development of a Complex Sentence Based Knowledge Retrieval Technology for Medical Information Retrieval," LG Electronics, July 2015 to December 2015.
26. Principal Investigator, "Competition of Korean Information Processing Systems," The National Institute of Korean Language, April 2014 to October 2014.
27. Co-Principal Investigator, "SPAM Message Filtering Using SVM," SPTek Co. LTD., July 2014 to August 2014.
28. Co-Principal Investigator, "Development of Foundation Technologies for Dialogue Based Private Secretary Software on Multi-domains Information Services," Ministry of Knowledge Economy (MKE), May 2012 to April 2015.
29. Principal Investigator, "Development of Speech Synthesizer and AAC software for the Visually and Vocally Impaired," Voiceware Co., LTD., Ministry of Knowledge Economy (MKE), June 2010 to May 2014.

30. Co-Principal Investigator, "Developing Spoken Dialogue Interface Technologies for Intelligent Talking Companion Robots by Integrating Voice/Image Information and Workbench toolkits" Ministry of Knowledge Economy (MKE), April 2009 to March 2013.
31. Principal Investigator, "A Multilingual Opinion Mining System by Topic Aspect Using Cross-language Information Retrieval Techniques," National Research Foundation of Korea (NRF), July 2011 to June 2012.
32. Principal Investigator, "Development of Natural Language Based Mobile Interface Using Ontology and Effective FAQ Retrieval Techniques," National Research Foundation of Korea (NRF), May 2009 to April 2012.
33. Principal Investigator, "A Study of a Comparison Mining System Using Comparative Sentence Extraction and Comparative Relation Analysis," National Research Foundation of Korea (NRF), May 2009 to April 2011.
34. Principal Investigator, "The Automatic Construction of Language Resources for Named Entities from Wikipedia," Electronics and Telecommunications Research Institute (ETRI), May 2009 to January 2010.
35. Co-Principal Investigator, "The Development of Text Summary Generation System for English News Article from News Portals in IP TV," Samsung Electronics Co., LTD., September 2008 to November 2008.
36. Principal Investigator, "Development of an Opinion Mining System Using Named Entity Recognition and Feature Extraction Techniques with High Domain Portability," Korea Research Foundation (KRF), July 2008 to June 2009.
37. Co-Principal Investigator, "The Development of Text Summary Generation Techniques for Web Documents from News Portals in IP TV," Samsung Advanced Institute of Technology (SAIT), June 2007 to November 2007.
38. Principal Investigator, "A Study of Sentiment Classification Systems for Text Data Using Natural Language Processing and Machine Learning Techniques," Korea Research Foundation (KRF), July 2006 to June 2008.
39. Co-Principal Investigator, "The Construction of S&T Semantic Network and Study on Indexing," Korea Institute of Science and Technology (KISTI), January 2007 to November 2007.
40. Principal Investigator, "The Development of Teaching Materials for Information Retrieval and Text Mining," Institute for Information Technology Advancement (IITA), January 2007 to December 2007.
41. Co-Principal Investigator, "The Development of Interaction Techniques for Intelligent Robots," Ministry of Commerce, Industry and Energy, April 2006 to March 2009.
42. Co-Principal Investigator, "The Development of Spoken Dialogue Techniques for Silver Mates," Ministry of Commerce, Industry and Energy, October 2003 to March 2006.
43. Principal Investigator, "The Construction of General and IT Category Maps and Category Tagging on Thesaurus," Korea Institute of Science and Technology (KISTI), March 2006 to October 2006.
44. Principal Investigator, "A Text Categorization Method Improved by Removing Noisy Training Documents," Dong-A University. September 2004 to August 2005.
45. Co-Principal Investigator, "The Development of a Machine Self Growth Model Based on Brain Information Processing," Ministry of Commerce, Industry and Energy, April 2004 to April 2006.
46. Research Assistant, "A Study on Development of Dialog-based Information Retrieval and Question/Answering System based on Thesaurus," Korean Science and Engineering Foundation (KOSEF), September 2003 to August 2005.
47. Research Assistant, "An Automatic Animation System for the Korean Sign Language," Ministry of Information and Communication (MIC), September 2003 to August 2005.
48. Research Assistant, "The Development of Baseline Platform for Spoken Dialogue Recognition System," Ministry of Commerce, Industry and Energy, December 2000 to November 2003.
49. Research Assistant, "BK21: Intelligent Information Retrieval Agent Research Team," Korea Research Foundation (KRF), September 1999 to August 2002.

50. Research Assistant, "Statistical Discourse Analysis for Korean," Korea Science and Engineering Foundation (KOSEF), August 1998 to August 2000.
51. Research Assistant, "A Study on a Multi-Modal Dialogue User Interface System," The Institute of Information Technology Assessment, August 1998 to June 1999.

13. Student Supervision

PhD Dissertation

1. Kyoungman Bae, *Question Classification and Retrieval Based on the Word Embedding for the cQA Service*, August 2016.
2. Seon Yang, *Comparison Mining from Korean Text Documents Using Comparative Lexical Patterns and Machine Learning Techniques*, February 2013.

MS Thesis

1. Youngjae Chang, *Soft Engagement with Pseudo Initiatives for Multi-party Dialogue Systems*, February 2024.
2. Honghee Lee, *Dynamic Persona Generation through Commonsense Inference in Dialogues*, February 2024.
3. Kuyri Choi, *Low-resource Text Classification Method that Mitigates Overfitting on Domain-specific Features*, February 2024.
4. Jaeah You, *Topic-Informed Dialogue Summarization using Topic Distribution and Prompt*, February 2024.
5. Dooyoung Kim, *Uni-Encoder based Video Retrieval System for Real-time Retrieval*, August 2023.
6. Choongwon Park, *Query Focused Summarization with Query Attentive Semantic Graph*, February 2023.
7. Sunyoung Park, *Retrieval-adaptive Pre-training Method in Open-domain Settings*, February 2023.
8. Junhee Cho, *Dialogue Attentive Representation for Knowledge-Grounded Dialogue through Contrastive Learning*, February 2023.
9. Haeun Yu, *Dialogue State Tracking System with Graph-structured Syntactic Discourse Information*, February 2023.
10. Taehun Huh, *Low-resource Abstractive Summarization using Meta-learning and Copy Mechanism*, February 2023.
11. Meoungjun Kim, *Self-supervised Learning Method for Fine-tuning of the Retrieval-based Models*, February 2022.
12. Dongcheol Son, *Task-Oriented Dialog Systems for Situated and Interactive Multi-modal Conversations*, February 2022. (Excellent Research Award)
13. Hyewon Choi, *Fake News Video Detection System Using Adversarial Neural Network and Topic Modeling*, February 2022. (Top Research Award)
14. Daesik Jang, *Knowledge Graph Completion System Using Hyper-class Information and Pre-trained Language Model*, February 2022.
15. Gihwan Kim, *Query-based Abstractive Summarization System Using Sentence Ranking Scores and Graph Techniques*, February 2021. (Excellent Research Award)
16. Hongyeun Yu, *Multi-document Summarization and Title Extraction based on Incremental Clustering for Real-time Issue Analysis*, February 2019.
17. Jungmin Yoon, *Natural Language Understanding Module and Dialogue Policy based on Deep Learning for a Goal-oriented Dialogue System*, February 2019.
18. Jaehyun An, *Chatting corpus Expansion research and Hybrid Chatting System*, February 2019.

19. Hyemin Kim, *Syllable Unit Korean POS Tagging and Jamo Embedding Method to Improve Performance against Typing Errors*, February 2019.
20. Yongsin Park, *Machine Reading Comprehension Utilizing Language Analysis Results*, February 2019.
21. Juryong Cheon, *Development of an English-Korean Cross-Language Information Retrieval System by Automatically Extracting Parallel Sentences from Wikipedia and Improving Query Translation Techniques*, February 2016.
22. Hokyung Lee, *A Dialogue System for Various Travel Domains by Combining the Hierarchical Task Network and the Dialogue Transition Network*, February 2016.
23. Namhoon Song, *Improving Speech-act Classification with Classification Priority and Post-correction Rules for the Input Utterance Analysis in Dialogue System*, February 2016.
24. Changsoo Lee, *An Out-Of-Vocabulary Handling Module and a Simultaneous Recognition Technique for the Spoken Language Understanding of Spoken Dialogue Systems*, February 2015.
25. Sunghyun Kim, *Extracting Korean-English Parallel Sentences Using Comparable Corpora from Wikipedia*, February 2014.
26. Sungho Kim, *Wikipedia Based Query Translation and Query Expansion Techniques for English and Korean Cross-Language Information Retrieval*, February 2012.
27. Shinil Kim, *A Search Engine for Mathematical Equations Based on Formula Patterns*, February 2012.
28. Yonghyun Park, *A Dialogue-based TV Guide System Using a Similarity Measure with the Domain-specific Term Weighting Scheme*, February 2012.
29. Sangjoon Bae, *Automatic Named Entities Extraction and Their Importance Measures Using Korean Wikipedia and Classification Techniques*, February 2011.
30. Jaewon Hwang, *A Study on Sentiment Features Extraction and Their Weight Boosting Method for Korean Document Sentiment Classification*, February 2009.