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| **PERSONAL**  **IDENTIFICATION** | * Name : Hyeon-gu Lee (이현구) * NLP Lab. Dept. of Computer and Communications Engineering, Kangwon National University * Address : 1 Gangwondaehak-gil Chuncheon-si, Gangwon-do, Korea * E-mail : nlphglee@kangwon.ac.kr, dgr1026@naver.com * Supervisor : Harksoo Kim (Kangwon National University; Full Professor) |
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| **EDUCATIONAL**  **BACKGROUND** | * **Kangwon National University**, Chuncheon, Korea. Ph.D course. Computer and Communications Engineering began in March 2016. * **Kangwon National University**, Chuncheon, Korea. M.S. in Computer and Communications Engineering awarded in February 2016. Master’s thesis: *One-Class Classification Model Based on Lexical Information and Syntactic Patterns*. * **Kangwon National University**, Chuncheon, Korea. B.A. in Computer and Communications Engineering awarded in February 2016. |
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| **RESEARCH**  **INTERESTS** | **Natural language processing, Question-answering, Dialogue System** |
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| **RESEARCH INTERESTS SUPERVISOR** | **Natural language processing, Information retrieval, Dialogue understanding, Question-answering** |
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| **PUBLICATION** | * **International Journal Papers**   + Maengsik Choi, **Hyeon-gu Lee**, and Harksoo Kim (corresponding author), *Relation extraction based on two-step classification with distant supervision*, Journal of Supercomputing, Vol.72(7) pp. 2609-2622, 2016.07. (DOI 10.1007/s11227-015-1535-4) **(SCI)**.   + **Hyeon-gu Lee**, Minkyoung Kim, and Harksoo Kim (corresponding author), *Implementation of a High-Performance Answer Snippet Retrieval System Based on Multiple Ranking Models for Biomedical Documents*, Advanced Science Letters, Vol.23(10), pp.9486-9490, 2017.10. **(SCOPUS)**   + Geonwoo Park, **Hyeon-gu Lee**, and Harksoo Kim (corresponding author), *Named Entity Recognition Model Based on Neural Networks Using Parts of Speech Probability and Gazetteer Features*, Advanced Science Letters, Vol.23(10), pp.9530-9533, 2017.10. **(SCOPUS)**   + **Hyeon-gu Lee**, Geonwoo Park, and Harksoo Kim (corresponding author), *Effective Integration of Morphological Analysis and Named Entity Recognition Based on a Recurrent Neural Network*, Pattern Recognition Letters, Vol.112, pp.361-365, 2018.09.**(SCIE)**   + **Hyeon-gu Lee** and Harksoo Kim (corresponding author), *GF-Net: Improving Machine Reading Comprehension with Feature Gates*, Pattern Recognition Letters (available in online) (DOI: 10.1016/j.patrec.2019.10.030), 2019.11.**(SCIE)** * **International Conference Papers**   + **Hyeon-gu Lee**, Minkyoung Kim, Harksoo Kim, Juae Kim, Sunjae Kwon, Jungyun Seo, Jungkyu Choi, Yi-reun Kim, *KSAnswer: Question-answering System of Kangwon National University and Sogang University in the 2016 BioASQ Challenge*, Proceedings of the fourth BioASQ workshop at the BioNLP workshop of ACL 2016, pp. 45-49, 2016.08.   + Geonwoo Park, **Hyeon-gu Lee**, and Harksoo Kim, *Integrated Neural Network Model for Morphological Analysis and Named Entity Recognition in Korean*, Proceedings of ICICPE 2017, pp. 83-84, 2017.02.   + **Hyeon-gu Lee**, Minkyoung Kim, and Harksoo Kim, *A Reliable Model for Answer Snippet Retrieval in Biomedical Documents*, Proceedings of ASCIT 2017 & ADINTECH 2017, pp. 35-36, 2017.05.   + Geonwoo Park, **Hyeon-gu Lee**, and Harksoo Kim, *High-Performance Named Entity Recognition Model Based on Bi-directional Gated Recurrent Unit Model with a Conditional Random Field Layer*, Proceedings of ASCIT 2017 & ADINTECH 2017, pp. 49-50, 2017.05.   + Cheoneum Park, Juae Kim, **Hyeon-gu Lee**, Reinald Kim Amplayo, Harksoo Kim, Jungyun Seo, and Changki Lee, *ThisIsCompetition at SemEval-2019 Task 9: BERT is unstable for out-of-domain samples*, Proceedings of the 13th International Workshop on Semantic Evaluation (SemEval-2019), pp. 1254-1261, 2019.06. * **Domestic Journal Papers**   + **Hyeon-gu Lee**, Maengsik Choi, and Harksoo Kim (corresponding author), *One-Class Classification Model Based on Lexical Information and Syntactic Patterns*, Journal of the Korean Institute of Information Scientists and Engineers, Vol. 42(6), pp. 817-822, 2015.06. (in Korean)   + **Hyeon-gu Lee**, MinKyoung Kim, and Harksoo Kim (corresponding author), *Answer Snippet Retrieval for Question Answering of Medical Documents*, Journal of the Korean Institute of Information Scientists and Engineers, Vol. 43(8), pp. 927-932, 2016.08. (in Korean)   + **Hyeon-gu Lee**, and Harksoo Kim (corresponding author), *Title Generation Model for which Sequence-to-Sequence RNNs with Attention and Copying Mechanisms are used*, Journal of the Korean Institute of Information Scientists and Engineers, Vol. 44(7), pp. 674-679, 2017.07. (in Korean)   + Sihyung Kim, **Hyeon-gu Lee**, and Harksoo Kim (corresponding author), *Knowledge Embedding Method for Implementing a Generative Question-Answering Chat System*, Journal of the Korean Institute of Information Scientists and Engineers, Vol. 45(2), pp. 134-140, 2018.02. (in Korean)   + **Hyeon-gu Lee** and Harksoo Kim (corresponding author), *Korean Machine Reading Comprehension using Reinforcement Learning and Dual Co-Attention Mechanism*, Journal of the Korean Institute of Information Scientists and Engineers, Vol. 45(9), pp. 932-936, 2018.09. (in Korean)   + Jintae Kim, **Hyeon-gu Lee**, and Harksoo Kim (corresponding author), *Effective Generative Chatbot Model Trainable with a Small Dialogue Corpus*, Journal of the Korean Institute of Information Scientists and Engineers, Vol. 46(3), pp. 246-252, 2019.03. (in Korean) |
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| **Awards** | * 2nd place in Snippets section of BioASQ 2016, Task 4b: Biomedical Semantic QA |
| **ETC** | * ACL 2016, Student Travel Grants, 2016. |
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