CHEONEUM PARK

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EDUCATION

Kangwon National University

March 2016 – February 2020

Ph.D. in Computer Science

Chuncheon, Kangwon

Area: Natural Language Processing, Coreference Resolution, Question Answering

Advisor: Changki Lee

WORK EXPERIENCE

Daejeon, South Korea

Assistant Professor March 2024 –

SK Telecom

Seoul, South Korea

Manager April 2023 – February 2024

AIR Lab@42dot (Hyundai Global Software Center)

Seoul, South Korea

Part Lead and Senior Research Engineer

September 2022 – March 2023

AIR Lab (AIRS Company) @Hyundai Motor Company

Seoul, South Korea

Part Lead

January 2022 – September 2022

Senior Research Engineer

January 2021 – September 2022

Research Engineer

January 2020 – December 2020

SERVICES

Adot @ SKT 2023

- The human interactive AI agent service that applies the LLM and RAG pipeline in SKT.
- Reference: https://a.sktelecom.com/

EDITH QnA @ NiroPlus

August 2022

- The voice agent service 'AI Assistant' firstly implemented by AIRS Company in the Hyundai Motor Group.
- Equipped with electric vehicle related QnA system.
- Reference: http://dailycar.co.kr/content/news/44548/

EV6 QnA @ KIA Owner's Manual

December 2021

- Installed QnA framework (FAQ, IR, Rerank) in KIA Owner's Manual App.
- Voice QnA system for West Europe.

KIA360 August 2021

- Mounted on KIA AI DOCENT.
- The first FAQ service, which guide KIA's ADAS in AIRS Company.
- Reference: http://dailycar.co.kr/content/news/40554/

PUBLICATIONS

International Journal

- [13] [sci] Cheoneum Park, Seohyeong Jeong, Juae Kim*. MaQA: Car Manual Question Answering as a Neural FAQ Classification Problem. *Electronics*, Vol. 13, No. 24, Dec. 2024, doi: 10.3390/electronics13244972.
- [12] [sci] Cheoneum Park, Seohyeong Jeong, Juae Kim*. ADMit: Improving NER in Automotive Domain with Domain Adversarial Training and Multi-task Learning. ESWA, Vol. 225, No. 1, Sep. 2023, doi: 10.1016/j.eswa.2023.120007.
- [11] [scie] Cheoneum Park and Juae Kim*. Robust Multi-task Learning-based Korean POS Tagging to Overcome Word Spacing Errors. ACM TALLIP, Vol. 22, Issue 6, No. 182, Jun. 2023, doi: 10.1145/3591206.
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- [9] [sci] Cheoneum Park, Junho Lim, Jihee Ryu, Hyun-ki Kim, Changki Lee*. Simple and Effective Neural Coreference Resolution for Korean. ETRI Journal, Vol. 43, No. 6, Dec. 2021, pp. 1038-1048, doi: 10.4218/etrij.2020-0282
- [8] [sci] Cheoneum Park, Soyoon Park, Seungyoung Lim, Myungji Kim, Jooyoul Lee, Changki Lee*. Korean TableQA: Structured Data Question Answering based on Span Prediction Style with S³-NET. ETRI Journal, Vol. 42, No. 6, Dec. 2020, pp. 899-911, doi: 10.4218/etrij.2019-0189
- [7] [scie] Cheoneum Park, Heejun Song, Changki Lee*. S³-NET: SRU-based Sentence and Self-matching Networks for Machine Reading Comprehension. ACM TALLIP, Vol. 19, No. 3, Feb. 2020, doi: 10.1145/3365679
- [6] [sci] Cheoneum Park, Heejun Song, and Changki Lee*. VS³-NET: Neural Variational Inference for Machine Reading Comprehension. ETRI Journal, Vol. 41, no. 6, Dec. 2019, pp. 771-781, doi: 10.4218/etrij.2018-0467
- [5] [sci] **Cheoneum Park**, Changki Lee*, Lynn Hong, Yigyu Hwang, Teajoon Yoo, Jaeyong Jang, Yunki Hong, Kyung-Hoon Bae, and Hyun-Ki Kim. S²-NET Machine Reading Comprehension with SRU-based Self-matching Networks. *ETRI Journal*, Apr. 2019, pp. 371-382, doi: 10.4218/etrij.2017-0279.
- [4] [scie] Sangkeun Jung, Changki Lee*, and **Cheoneum Park**. Multitask Pointer Network for Korean Dependency Parsing. *ACM TALLIP*, Vol. 18, No. 3, Feb. 2019, doi: 10.1145/3282442.
- [3] [sci] Cheoneum Park, Changki Lee*, Soojong Lim. Mention Detection using Pointer Networks for Coreference Resolution. ETRI Journal, 12, Oct. 2017, pp. 652-661 (ETRI Wise QA)

- [2] [scie] Changki Lee, Sangkeun Jung*, **Cheoneum Park**. Anaphora Resolution with Pointer Networks. *Pattern Recognition Letters*, Vol 95, 1 Aug. 2017, pp.1-7
- [1] [sci] Cheoneum Park, Kyoung-Ho Choi, Changki Lee*, Soojong Lim. Korean Coreference Resolution with Guided Mention Pair Model using the Deep Learning. *ETRI Journal*, Vol.38, No.6, Dec. 2016, pp.1207-1217 (ETRI Wise QA)

International Conference

- [16] Cheoneum Park*, Seohyeong Jeong, Minsang Kim, Kyung Tae Lim and Yong-Hun Lee. SCV: Light and Effective Multi-Vector Retrieval with Sequence Compressive Vectors. COLING industry track, Jan. 2025.
- [15] Wonho Lee, Yena Jang, Yongjae Lee, Seungcheol Ha, Kim Seul Ki, Cheoneum Park, Changbeom Choi, Taehoon Kim*. A Study on Joint Maximum-Likelihood Detection for Downlink LEO Satellite Communications with Different 8QAM Constellations. ICCE-Asia, Nov. 2024.
- [14] Naeun Yoon, Seungju Lee, Kim Seul Ki, Cheoneum Park, Taehoon Kim, Hojun Jin*. Energy Consumption Prediction using CNN-LSTM Models: A Time Series Big Data Analysis of Electricity, Heating, Hot Water, and Water. ICCE-Asia, Nov. 2024.
- [13] Minji Lee, Wonho Lee, Sunmin Lee, Taehoon Kim, Cheoneum Park*. Korean News Summarization with Contrasts by Augmenting Counterfactual Data. ICCE-Asia, Nov. 2024.
- [12] Chanwoo Lee, Hyunjeong Lee, Minsang Kim, Hyun Kim, Haneol Jang, Cheoneum Park*. Harnessing LLMs for VQA: A Prompted Benchmark with Animate/Inanimate Keywords. Special Track AI@ICTC, Oct. 2024.
- [11] DongSu Kim, SeoYeon Oh, **Cheoneum Park**, Haneol Jang. Dual-Stream Dual-Backbone Architecture for HyperSpectral Face Anti-Spoofing. *Special Track AI@ICTC*, Oct. 2024.
- [10] Minsang Kim, Cheoneum Park, Seungjun Baek*. Augmenting Query and Passage for Retrieval-Augmented Generation using LLMs for Open-Domain Question Answering. EMNLP, Nov. 2024.
- [9] Hwanhee Lee, **Cheoneum Park**, Seunghyun Yoon, Trung Bui, Franck Dernoncourt, Juae Kim, and Kyomin Jung. Factual Error Correction for Abstractive Summaries Using Entity Retrieval. *Proceedings of the 2nd Workshop on Natural Language Generation, Evaluation, and Metrics (GEM)@EMNLP*, Dec. 2022.
- [8] Minwoo Lee, Seungpil Won, Juae Kim, Hwanhee Lee, Cheoneum Park, Kyomin Jung. CrossAug: A Contrastive Data Augmentation Method for Debiasing Fact Verification Models. CIKM '21, Oct. 2021, pp. 3181–3185
- [7] Cheoneum Park, Jay Shin, Sungjun Park, Junho Lim, and Changki Lee. Fast End-to-end Coreference Resolution for Korean. Findings of the Association for Computational Linguistics: EMNLP 2020, Nov. 2020.
- [6] Cheoneum Park, Changki Lee*, and Hyunki Kim. Coreference Resolution with Hierarchical Pointer Networks based on Pointing Methods. 2020 IEEE International Conference on Big Data and Smart Computing (IEEE BigComp 2020), Feb. 2020.

- [5] Cheoneum Park, Young-Jun Jung, Kihoon Kim, Geonyeong Kim, Jae-Won Jeon, Seongmin Lee, Junseok Kim, and Changki Lee*. KNU-HYUNDAI's NMT system for Scientific Paper and Patent Tasks on WAT 2019. 1st for five-language pairs WAT@EMNLP 2019: 81-89, Nov. 2019.
- [4] Cheoneum Park*, Juae Kim*, Hyeon-gu Lee*, Reinald Kim Amplayo*, Harksoo Kim, Jungyun Seo, and Changki Lee. (* equal contribution) ThisIsCompetition at SemEval-2019 Task 9: BERT is unstable for out-of-domain samples, 2nd (subtask-A), Task9 SemEval@NAACL-HLT 2019, Jun. 2019.
- [3] Cheoneum Park and Changki Lee*. Modified VS³-NET for Reading Comprehension and Question Answering with No-answers. 2019 IEEE International Conference on Big Data and Smart Computing (IEEE BigComp 2019), Feb. 2019.
- [2] Kyung Tae Lim, Cheoneum Park, Changki Lee, and Thierry Poibeau. CoNLL 2018 Shared Task, SEx BiST: A Multi-Source Trainable Parser with Deep Contextualized Lexical Representations, 2nd (UAS), 4th (LAS), first place of parsing English, French and Korean. CoNLL 2018 conference, Nov. 2018.
- [1] Cheoneum Park, Heejun Song, Changki Lee*, KNU CI System at SemEval-2018 Task4: Character Identification by Solving Sequence-Labeling Problem, 1st (main characters + others), Task4

 SemEval@NAACL-HLT 2018: 655-659, Jun. 2018.

Domestic Journal (in Korean)

- [20] Cheoneum Park*, Minsang Kim, Hyun Kim. Introduction to Neural Retriever. JOK, Vol. 43, No. 2, pp. 40-50, Feb. 2025.
- [19] Da-Bin Kim, Seo-Yeon Oh, Dong-Su Kim, **Cheoneum Park**, Haneol Jang*. Face anti-spoofing method using contrastive learning and color jittering. *KDFS*, Vol. 18, No.5, pp. 40-49, Nov. 2024.
- [18] Cheoneum Park. Introduction to Coreference Resolution. JOK, Vol. 39, No. 4, pp. 21-29, Apr. 2021.
- [17] Youngjun Jung, Cheoneum Park, Changki Lee, Junseok Kim. English-Korean Neural Machine Translation using MASS with Relative Position Representation. JOK, Vol. 47, No. 11, pp. 1038-1043, Nov. 2020.
- [16] Kihun Kim, Cheoneum Park, Changki Lee, Hyunki Kim. Korean End-to-end Neural Coreference Resolution with BERT. JOK, Vol. 47, No. 10, Oct. 2020.
- [15] Kihun Kim, Cheoneum Park, Changki Lee, Hyunki Kim. Korean End-to-End Neural Coreference Resolution Using Higher-Order Inference. KTCP, Vol. 26, No. 5, May 2020.
- [14] Cheoneum Park, Changki Lee*. Sentimental Analysis of Korean Movie Review using Variational Inference and RNN based on BERT. KTCP, Vol. 25, No. 11, pp. 552-558, Nov. 2019.
- [13] **Cheoneum Park**, Dongheon Lee, Kihoon Kim, Changki Lee*, and Hyunki Kim. Korean Movie Review Sentiment Analysis using Self-Attention and Contextualized Embedding. *JOK*, Vol.46, No.9, pp. 901-908, Sep. 2019.

- [12] **Cheoneum Park**, Changki Lee*, and Hyunki Kim. Coreference Resolution using Multi-resolution Pointer Networks. *JOK*, Vol. 46, No. 4, pp. 334-340, Apr. 2019.
- [11] **Cheoneum Park**, Changki Lee*, and Hyunki Kim. Korean Machine Reading Comprehension using S3-Net based on Position Encoding. *JOK*, Vol. 46, No. 3, pp. 234-240, Mar. 2019.
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- [8] Cheoneum Park and Changki Lee. Korean Coreference Resolution using Stacked Pointer Networks based on Position Encoding. KTCP, Vol. 24, No. 3, pp.113-121, Mar. 2018. (ETRI Wise QA, NRF-2017M3C4A7068188)
- [7] **Cheoneum Park** and Changki Lee. Coreference Resolution using Hierarchical Pointer Networks. KTCP, Vol. 23, No. 9, pp.542-549, Sep. 2017. (ETRI Wise QA)
- [6] Cheoneum Park and Changki Lee. Korean Dependency Parsing using Pointer Networks. JOK, Vol. 44, No. 8, pp. 822-831, Aug. 2017. (ETRI Wise QA)
- [5] Cheoneum Park and Changki Lee. Mention Detection with Pointer Networks. JOK, Vol. 44, No. 8, pp. 774-781, Aug. 2017. (ETRI Wise QA)
- [4] **Cheoneum Park** and Changki Lee. Coreference Resolution for Korean Pronouns using Pointer Networks. *JOK*, Vol. 44, No. 5, pp. 496-502, May, 2017. (ETRI Wise QA)
- [3] **Cheoneum Park** and Changki Lee. Pointer Networks based on Skip Pointing Model. *KTCP*, Vol. 22, No. 12, pp. 625-631, Dec. 2016. (ETRI Wise QA)
- [2] Kyoung-Ho Choi, **Cheoneum Park** and Changki Lee. Coreference Resolution for Korean using Mention Pair with SVM. *KTCP*, Vol. 21, No. 4, pp. 333-337, Apr. 2015. (ETRI Wise QA)
- [1] **Cheoneum Park**, Kyoung-Ho Choi and Changki Lee. Korean Coreference Resolution using the Multi-pass Sieve. *JOK*, Vol. 41, No. 11, pp. 992-1005, Nov. 2014. (ETRI Wise QA)

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- [50] Minji Lee, Jeonghun Yuk, Byeongho Lee, Kyungtae Lim, Kyoungha Lee, Cheoneum Park*. Korean Benchmark for Science and Technology Information in Specialized, HCLT, 2024.
- [49] Dong-Su Kim, Seo-Yeon Oh, Suan Kim, Cheoneum Park, Hanyeol Jang. Face anti-spoofing method using contrastive learning and color jittering, KDFS, 2024.
- [48] Ashleigh T. Manjoro, YeongMuk Lee, Cheoneum Park, Inkyu Bang, Taehoon Kim*. Research Trends of Machine Learning based Cellular Random Access, KICS, 2024.
- [47] Hyoungwon Seo, Jisang Lee, Cheoneum Park, Haneol Jang. Data Preprocessing and Augmentation Methodsfor SAR to Optical Image Translation, KCC, 2024.
- [46] Jisang Lee, Hyeong-Won Seo, Cheoneum Park, Haneol Jang. Crop-Paste Technique for Enhancing Object Detection Performance in Synthetic Aperture Radar Images, KCC, 2024.

- [45] Cheoneum Park*, Hanyeol Jang, Yong-Hun Lee. Multi-Vector Retriever with Compressed Span Representation, KCC, 2024.
- [44] Eunsu Kim, Soojong Do, Cheoneum Park*. Korean Named Entity Recognition using D-Tag, HCLT, 2022.
- [43] Cheoneum Park, Seohyung Jung, and Mirye Lee. Hierarchical Model and Domain Adversarial Training-based Retrieval and Reading Comprehension System for Car Manual. HMG Conference, 2022.
- [42] Cheoneum Park, Juae Kim, and Seohyung Jung. Automotive Domain FAQ Classification Model with Contrastive Learning. HMG Conference, 2022.
- [41] Cheoneum Park, Juae Kim, Sungwook Kim, Eunyoung Park, and Mirye Lee. Fine-grained Named Entity Recognition for Mobility Domain with Multi-task Learning. *HMG Conference*, 2022.
- [40] Cheoneum Park, Juae Kim, Seohyung Jung, Donghyun Kim, Seongwook Kim, Eunyoung Park, and Cheongjae Lee. Car Manual Question Answering with Neural FAQ Model. HMG Conference, 2021.
- [39] Soojong Do, Cheoneum Park*, Cheongjae Lee, Kyuyeol Han, Mirye Lee. Syllable-based Korean Named Entity Recognition and Slot Filling with ELECTRA. HCLT, 2020.
- [38] Dongheon Lee, Cheoneum Park, Changki Lee*, Seungyoung Lim. Multi-paragraph Machine Reading Comprehension Model using BERT-SRU and HTML Tag Features. KSC, 2019.
- [37] Cheoneum Park, Hyunki Kim, Changki Lee*. Korean Named Entity Recognition using Knowledge Distillation based on Ensemble. KSC, 2019.
- [36] Cheoneum Park, Kihoon Kim, Hyunki Kim, Changki Lee*. Korean Coreference Resolution using Knowledge Distillation based on Ensemble. KSC, 2019.
- [35] Cheoneum Park, Changki Lee*, Hyunki Kim. Korean Morphological Analysis and Part-Of-Speech Tagging with LSTM-CRF based on BERT. HCLT, 2019.
- [34] Young-Jun Jung, Cheoneum Park, Changki Lee*. English-Korean Neural Machine Translation using MASS. HCLT, 2019.
- [33] Kihoon Kim, Cheoneum Park, Changki Lee*, Hyunki Kim. Korean End-to-end Neural Coreference Resolution with BERT. HCLT, 2019.
- [32] Cheoneum Park, Changki Lee*, Jun-Ho Lim, Hyunki Kim. Korean Dependency Parsing with BERT. KCC, 2019.
- [31] Cheoneum Park, Kihoon Kim, Changki Lee*, Jun-Ho Lim, Jihee Ryu, Hyunki Kim. Korean Coreference Resolution using Deep Biaffine based on BERT. KCC, 2019.
- [30] Youngjun Jung, Cheoneum Park, Changki Lee*, Junseok Kim. Japanese-to-English Neural Machine Translation using Multiple Subword Segmentation. KCC, 2019.
- [29] Dongheon Lee, Cheoneum Park, Changki Lee*, Soyoon Park, Seungyoung Lim, Myungji Kim, and Jooyoul Lee. Korean Machine Reading Comprehension using BERT. KCC, 2019.
- [28] Kihoon Kim, Cheoneum Park, Changki Lee*. Korean End-to-end Neural Coreference Resolution using Higher-order Inference. KCC, 2019.

- [27] Cheoneum Park, Changki Lee*. Korean Movie Review Sentimental Analysis using RNN-based Variational Inference. KSC, 2018.
- [26] Cheoneum Park, Changki Lee*. Korean Answer Sentence Selection using Co- and Self-attention mechanism. KSC, 2018.
- [25] Cheoneum Park, Geonyeong Kim, Hyunsun Hwang, and Changki Lee*. Contextualized Embedding-based Korean Movie Review Sentiment Analysis. HCLT, 2018.
- [24] Cheoneum Park, Changki Lee*, Jihee Ryu, and Hyunki Kim. Contextualized Embedding- and Character Embedding-based Pointer Network for Korean Coreference Resolution. HCLT, 2018.
- [23] Cheoneum Park, Changki Lee*, Soyoon Park, Seungyoung Lim, Myungji Kim, and Jooyoul Lee. Structured Data Question Answering using S³-NET. HCLT, 2018.
- [22] Cheoneum Park, Changki Lee and Hyunki Kim. Korean Coreference Resolution using Multiresolution Pointer Networks. KCC, 2018.
- [21] Cheoneum Park, Changki Lee and Hyunki Kim. Korean Coreference Resolution using Pointer Networks based on Self-Matching Attention. KSC, 2017.
- [20] **Cheoneum Park**, Changki Lee, Yunki Hong, Jaeyong Jang, Kyung-Hoon Bae, SuLyn Hong, Yigyu Hwang and Hyunki Kim. S³-Net: Korean Machine Reading Comprehension using SRU-based Sentence and Self Matching Networks. *KSC*, 2017.
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- [18] Cheoneum Park, Changki Lee*, SuLyn Hong, Yigyu Hwang and Taejoon Yu. S²-Net: Korean Machine Reading Comprehension using SRU-based Self Matching Networks. *HCLT*, 2017.
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- [15] Cheoneum Park and Changki Lee. Korean Dependency Parsing for Pointer Networks based on Multi-task learning. KIISE Winter, 2016, pp. 440-442.
- [14] Cheoneum Park and Changki Lee. Coreference Resolution using Hierarchical Pointer Networks. KIISE Winter, 2016, pp. 485-487.
- [13] Cheoneum Park and Changki Lee. Mention Detection with Pointer Networks. HCLT, 2016.
- [12] Cheoneum Park and Changki Lee. Pointer Networks based on Skip Pointing Model. KIISE-KBS Symposium, 2016.
- [11] Cheoneum Park and Changki Lee. Coreference Resolution for Pronouns with Pointer Networks. KCC, 2016.
- [10] Cheoneum Park and Changki Lee. Mention Detection using Bidirectional LSTM-CRF models. HCLT, 2015.
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- [8] Cheoneum Park and Changki Lee. Mention Detection of Coreference Resolution using Deep Learning. KIISE-KBS Symposium, 2015.

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- [6] Cheoneum Park, Kyoung-Ho Choi, Hong-Gyu Lee and Changki Lee. Coreference Resolution for Korean Pronouns and Definite Noun Phrases. HCLT, 2014.
- [5] **Cheoneum Park**, Kyoung-Ho Choi and Changki Lee. Korean Coreference Resolution using Multipass Sieve. *KIISE Student Competition*, 2014.
- [4] JangSeong Bae, JunHo O, **Cheoneum Park**, KyoungHo Choi and Changki Lee. Development of Semi-automatic Tagging tool for Constructing Korean PropBank. *KCC*, 2014.
- [3] Kyoungho Choi, **Cheoneum Park** and Changki Lee. Coreference Resolution for Korean using Mention Pair with SVM. *KCC*, 2014.
- [2] Cheoneum Park, Gyoung-Ho Choi, HongGyu Lee and Changki Lee. Semi-automatic Tagging Tool for Korean Coreference Resolution using the Multi-pass Sieve. KIISE-KBS Symposium, 2014.
- [1] **Cheoneum Park**, SeungHyuk Lee, JunHo Oh and Changki Lee. Event detection using Structural SVM. *KIISE-KBS Symposium*, 2013.

PATENTS

International Patents

Link: https://patents.justia.com/search?q=Cheoneum+Park

- [9] Cheoneum Park, Donghyeon Kim, Sungwook Kim, Mirye Lee, Cheongjea Lee. QUESTION AND ANSWER SYSTEM AND METHOD FOR CONTROLLING THE SAME. Feb 4, 2025, (publication number) US: 20220258607.
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- [7] Cheoneum Park, Seohyeong Jeong, Juae Kim. INPUT-OUTPUT SYSTEM AND METHOD OF CONTROLLING THE SAME FOR VEHICLE. Dec 04, 2023, US18/528,026.
- [6] Cheoneum Park, Juae Kim, Cheongjae Lee, Soo Jong Do. METHOD OF TRAINING POS TAGGING MODEL, COMPUTER-READABLE RECORDING MEDIUM AND POS TAGGING METHOD. Jun 05, 2023, (application number) US: 18/205,615.
- [5] Cheoneum Park, Juae Kim. METHOD FOR TRAINING MACHINE READING COMPREHEN-SION MODEL, COMPUTER-READABLE RECORDING MEDIUM AND QUESTION ANSWER-ING SYSTEM. Jun 01, 2023, (application number) US: 18/204,585.
- [4] **Cheoneum Park**, Juae Kim. SYSTEM FOR GENERATING ANSWERS BASED ON MULTITASK LEARNING AND CONTROL METHOD THEREOF. May 10, 2023, (application number) US: 18/195,770.
- [3] Soo Jong Do, Mirye Lee, **Cheoneum Park**, Seohyeong Jeong, Cheongjae Lee, Kyuyeol Han. METHOD FOR TRAINING SLOT TAGGING MODEL, COMPUTER-READABLE MEDIUM, SPEECH RECOGNITION APPARATUS AND ELECTRONIC DEVICE. Dec 14, 2022, (application number) US: 18/081,464.

- [2] Cheoneum Park, Juae Kim, Donghyeon Lee, Mirye Lee, Cheongjea Lee. NAMED ENTITY RECOGNITION SYSTEM AND NAMED ENTITY RECOGNITION METHOD. Dec 14, 2022, (application number) US: 18/065,891.
- [1] **Cheoneum Park**, Donghyeon Kim, Sungwook Kim, Mirye Lee, Cheongjea Lee. QUESTION AND ANSWER SYSTEM AND METHOD FOR CONTROLLING THE SAME. 2020/10, (application number) CN: 202210149110.9.

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- [20] Cheoneum Park. System and Method for Retrieving Information (정보 검색 시스템 및 방법). 2024/10/21, (application number) 10-2024-0144139.
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- [16] **Cheoneum Park**, Yeonsoo Yim. Method, Apparatus, and Computer-readable Medium for Error Correction on Document Summarization (문서 요약에 대한 오류 수정 방법, 장치 및 컴퓨터-판독가능 기록매체). 2023/03, (application number) 10-2023-0033520.
- [15] **Cheoneum Park**, Juae Kim, Seohyeong Jeong. QESTION AND ANSWER SYSTEM AND METHOD FOR CONTROLLING THE SAME (질의응답 시스템 및 그 제어 방법). 2023/01, (application number) 10-2023-0002717.
- [14] Juae Kim, **Cheoneum Park**, Seohyeong Jeong, Yaegyoung Kim. Method for training and inferring datasets and apparatus thereof (데이터셋을 학습하고 추론하는 방법 및 그 장치). 2022/12, (application number) 10-2022-0185014.
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- [12] Cheoneum Park. LEARNING METHOD OF MACHING READING COMPREHENSION MODEL, COMPUTER-READABLE RECORDING MEDIUM AND QUESTION ANSWERING SYSTEM (자동차 매뉴얼 대상 계층구조 기계독해 기술을 이용한 질의응답 시스템). 2021/10, (application umber) 10-2022-0115267.
- [11] **Cheoneum Park**, Juae Kim. QUESTION AND ANSWER SYSTEM AND METHOD FOR CONTROLLING THE SAME (자동차 매뉴얼 대상 질의 응답을 위한 질문분석 시스템 및 방법). 2021/10,

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- · 1 Special Award: Hyundai Motor Company (2022)
- · 1 Excellence in Research Award: KNU (2020)
- 14 Best Paper Awards: KCC (2016, 2018), KIISE-KBS Symposium (2016, 2017), HCLT (2016, 2017, 2018, three awards at 2019, 2024), KIISE winter 2016, KSC (2017, 2019)
- 5 Best Presentations: KCC (2014, 2019), KIISE winter 2016, KSC 2017, KCC 2024
- · 1 Student Paper Award: KCC 2014
- · 1 Grand Prize: Graduation Competition 2013 at KNU

TEACHING EXPERIENCE

- · Lecturer, Opensource SW Programming (Fall 2024)
- · Lecturer, Natural Language Processing (Fall 2024)
- · Lecturer, Career Planning I (Fall 2024)
- · Lecturer, Capstone Design II (Fall 2024)
- · Lecturer, Data Structure (Spring 2024)
- · Lecturer, Python Programming (Spring 2024)
- · Lecturer, Career Planning I (Spring 2024)
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[ACL] 2023, 2025

[EMNLP] 2022, 2024

 $[NAACL]\ 2022,\ 2025$

 $[\mathrm{ETRIJ}]\ 2020,\ 2021,\ 2022,\ 2023,\ 2024,\ 2025$

[GEM] 2022, 2023

 $[\mathrm{HCLT}]\ 2020,\ 2021,\ 2022,\ 2023,\ 2024$

 $[\mathrm{JOK}]\ 2022,\ 2023,\ 2024,\ 2025$

 $[\mathrm{KCC}]\ 2022,\ 2023,\ 2024$

 $[KSC]\ 2020,\ 2022,\ 2023,\ 2024$

[TNNLS] 2022

SKILLS

Languages Python, C++, Javascript

Frameworks PyTorch, NumPy, Pandas, Prefect, OpenNMT, Theano