Chanjun Park

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Research Interests

I am currently working as an AI Research Engineer at Upstage. Also I am a Ph.D candidate in the Department of Computer Science and Engineering at Korea University (Advisor: Heuiseok Lim). I am the founder and leader of KU-NMT Group. I received Naver Ph.D. Fellowship 2021. I have published more than 140 papers in the field of Natural Language Processing, especially Machine Translation. I have registered 5 patents and applied for 13 patents.

- Data-centric AI
- Machine Translation
- Language Resource and Evaluation
- Real-World-centric AI

Education

Korea University   *Seoul, South Korea*

Ph.D in Computer Science and Engineering, GPA: 4.44 / 4.5   *Sep. 2019 - Aug.2023*
- **Advisor: Heuiseok Lim**
- **Natural Language Processing & Artificial Intelligence Lab**
- **Founder and Leader of KU-NMT Group.**

Busan University of Foreign Studies (BUFS)   *Busan, South Korea*

B.S. in Natural Language Processing & Creative Convergence, GPA: 4.2 / 4.5   *Mar. 2015 - Aug. 2018*
- **Advisor: Pummo Ryu**
- **Full Scholarship**

Academic Services

COLING 2022   *South Korea*

Virtual Social Chair   *Sep.2021-Present*
- COLING 2022: `http://coling2022.org/`
- Virtual Social Chair

Program committe   *South Korea*

Program committe   *January.2021-Present*
- ACL 2023-Industry Track, EACL 2022, ACL 2022-Insights, NAACL 2022-Industry Track, ARR (ACL 2022, NAACL 2022)

Reviewer   *South Korea*

Reviewer   *January.2021-Present*
- IEEE Access, Cybernetics and Systems, Applied Sciences, Electronics, Entropy, Connection Science

Selected Publications

Mimicking Infants' Bilingual Language Acquisition for Domain Specialized Neural Machine Translation
  Chanjun Park, Woo-Young Go, Sugyeong Eo, Hyeonseok Moon, Seolhwa Lee, Heuiseok Lim
  IEEE Access 10 (2022) pp. 38684–38693. IEEE, 2022

FreeTalky: Don't Be Afraid! Conversations Made Easier by a Humanoid Robot using Persona-based Dialogue
  Chanjun Park, Yoonna Jang, Seolhwa Lee, Sungjin Park, Heuiseok Lim
  LREC 2022 (Proceedings of the Language Resources and Evaluation Conference), 2022, Marseille, France

Priming Ancient Korean Neural Machine Translation
  Chanjun Park, Seolhwa Lee, Jaehyung Seo, Hyeonseok Moon, Sugyeong Eo, Heuiseok Lim
  LREC 2022 (Proceedings of the Language Resources and Evaluation Conference), 2022, Marseille, France

The ASR Post-Processor Performance Challenges of BackTranScription (BTS): Data-Centric and Model-Centric Approaches
  Chanjun Park, Jaehyung Seo, Seolhwa Lee, Chanhee Lee, Heuiseok Lim
  Mathematics 10.19 (2022). 2022

Empirical Analysis of Parallel Corpora and In-Depth Analysis Using LIWC
  Chanjun Park, Midan Shim, Sugyeong Eo, Seolhwa Lee, Jaehyung Seo, Hyeonseok Moon, Heuiseok Lim
  Applied Sciences 12.11 (2022) p. 5545. Multidisciplinary Digital Publishing Institute, 2022

QUAK: A Synthetic Quality Estimation Dataset for Korean-English Neural Machine Translation
Sugyeong Eo, **Chanjun Park**, Hyeonseok Moon, Jaehyung Seo, Gyeongmin Kim, Jungseob Lee, Heui-Seok Lim
COLING 2022 - Proceedings of the 29th International Conference on Computational Linguistics, 2022

KU X Upstage's Submission for the WMT22 Quality Estimation: Critical Error Detection Shared Task
Sugyeong Eo, **Chanjun Park**, Hyeonseok Moon, Jaehyung Seo, Heuiseok Lim
WMT 2022 - EMNLP 2022 - Proceedings of the Seventh Conference on Machine Translation, 2022, Abu Dhabi

Focus on FoCus: Is FoCus focused on Context, Knowledge and Persona?
SeungYoon Lee, Jungseob Lee, **Chanjun Park**, Sugyeong Eo, Hyeonseok Moon, Jaehyung Seo, Jeongbae Park, Heui-Seok Lim
Proceedings of the 1st Workshop on Customized Chat Grounding Persona and Knowledge, 2022

A Self-Supervised Automatic Post-Editing Data Generation Tool
Hyeonseok Moon, **Chanjun Park**, Sugyeong Eo, Jaehyung Seo, SeungJun Lee, Heuiseok Lim
ICML 2022 - DataPerf workshop, 2022 (2022). 2022

Empirical Analysis of Noising Scheme based Synthetic Data Generation for Automatic Post-editing
Hyeonseok Moon, **Chanjun Park**, Seolhwa Lee, Jaehyung Seo, Jungseob Lee, Sugyeong Eo, Heuiseok Lim
LREC 2022 (Proceedings of the Language Resources and Evaluation Conference), 2022, Marseille, France

A Dog Is Passing Over The Jet? A Text-Generation Dataset for Korean Commonsense Reasoning and Evaluation
Jaehyung Seo, Seounghoon Lee, **Chanjun Park**, Yoonna Jang, Hyeonseok Moon, Sugyeong Eo, Seonmin Koo, Heuiseok Lim
Findings of the Association for Computational Linguistics: NAACL 2022, 2022, Seattle, United States

PU-GEN: Enhancing generative commonsense reasoning for language models with human-centered knowledge
Jaehyung Seo, Dongsuk Oh, Sugyeong Eo, **Chanjun Park**, Kisu Yang, Hyeonseok Moon, Kinam Park, Heuiseok Lim
Knowledge-Based Systems (2022) p. 109861. Elsevier, 2022

Should we find another model?: Improving Neural Machine Translation Performance with ONE-Piece Tokenization Method without Model Modification
 Chanjun Park, Sugyeong Eo, Hyeonseok Moon, Heui-Seok Lim
NAACL 2021 - Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies: Industry Papers, 2021

FreeTalky: Don't Be Afraid! Conversations Made Easier by a Humanoid Robot using Persona-based Dialogue
 Chanjun Park, Yoonna Jang, Seolhwa Lee, Sungjin Park, Heuiseok Lim
AAAI 2022 - Artificial Intelligence for Education(AI4EDU) (2021). 2021

PicTalky: Augmentative and Alternative Communication Software for Language Developmental Disabilities
 Chanjun Park, Yoonna Jang, Seolhwa Lee, Jaehyung Seo, Kisu Yang, Heuiseok Lim
AACL 2022 - Demo Track (2021). 2021

How should human translation coexist with NMT? Efficient tool for building high quality parallel corpus
 Chanjun Park, Seolhwa Lee, Hyeonseok Moon, Sugyeong Eo, Jaehyung Seo, Heuiseok Lim
NeurIPS 2021 - Data-centric AI (DCAI) workshop (2021). 2021

Two Heads are Better than One? Verification of Ensemble Effect in Neural Machine Translation
 Chanjun Park, Sungjin Park, Seolhwa Lee, Taesun Whang, Heuiseok Lim
EMNLP 2021 - Proceedings of the Second Workshop on Insights from Negative Results in NLP, 2021, Online and Punta Cana, Dominican Republic

BTS: Back TranScription for Speech-to-Text Post-Processor using Text-to-Speech-to-Text
 Chanjun Park, Jaehyung Seo, Seolhwa Lee, Chanhee Lee, Hyeonseok Moon, Sugyeong Eo, Heuiseok Lim
ACL 2021 - Proceedings of the 8th Workshop on Asian Translation (WAT2021), 2021, Online

Dealing with the Paradox of Quality Estimation
Sugyeong Eo, **Chanjun Park**, Hyeonseok Moon, Jaehyung Seo, Heuiseok Lim, **(Equal Contribution (First Co-Author))**
MT Summit - Proceedings of the 4th Workshop on Technologies for MT of Low Resource Languages (LoResMT2021), 2021, Virtual

A New Tool for Efficiently Generating Quality Estimation Datasets
Sugyeong Eo, Chanjun Park, Jaehyung Seo, Hyeonseok Moon, Heuiseok Lim
NeurIPS 2021 - Data-centric AI (DCAI) workshop, 2021

Syntax-enhanced Dialogue Summarization using Syntax-aware information
Seolhwa Lee, Kisu Yang, **Chanjun Park**, João Sedoc, Heui-Seok Lim
NerIPS 2021 16th Women in Machine Learning Workshop, 2021

Towards Syntax-Aware Dialogue Summarization using Multi-task Learning
Seolhwa Lee, Kisu Yang, **Chanjun Park**, João Sedoc, Heui-Seok Lim
EMNLP 2021 -Widening NLP (WiNLP2021) workshop, 2021

Who speaks like a style of Vitamin: Towards Syntax-Aware Dialogue Summarization using Multi-task Learning
Seolhwa Lee, Kisu Yang, **Chanjun Park**, João Sedoc, Heuiseok Lim
IEEE Access (2021). IEEE, 2021

Automatic Knowledge Augmentation for Generative Commonsense Reasoning
Jaehyung Seo, **Chanjun Park**, Sugyeong Eo, Hyeonseok Moon, Heuiseok Lim
NeurIPS 2021 - Data-centric AI (DCAI) workshop, 2021

Neural Spelling Correction: Translating Incorrect sentences to Correct sentences for Multimedia
 Chanjun Park, Kuekyeng Kim, YeongWook Yang, Minho Kang, HeuiSeok Lim
Multimedia Tools and Applications (2020) pp. 1–18. Springer, 2020

Ancient Korean Neural Machine Translation
 Chanjun Park, Chanhee Lee, YeongWook Yang, Heuiseok Lim

IEEE Access 8 (2020) pp. 116617–116625. 2020

Comparison of the evaluation metrics for Neural Grammatical Error Correction with Overcorrection
  Chanjun Park, YeongWook Yang, Chanhee Lee, Heuiseok Lim
  IEEE Access 8 (2020) pp. 106264–106272. 2020

Decoding Strategies for Improving Low-Resource Machine Translation
  Chanjun Park, Yeongwook Yang, Kinam Park, Heuiseok Lim
  Electronics 9.10 (2020) p. 1562. Multidisciplinary Digital Publishing Institute, 2020

Honors & Awards

2022.12	**1st place in WMT 2022 QE Task 3, 2022**, WMT 2022 - EMNLP 2022	*Abu Dhabi*
2022.10	**Best Paper Award, 2022**, The 34th Annual Conference on Human & Cognitive Language Technology (HCLT2022)	*South Korea*
2021.12	**Naver Ph.D. Fellowship, 2021**, Naver	*South Korea*
2021.10	**Best Paper Award (NLP Application 2 Section), 2021**, The 33rd Annual Conference on Human & Cognitive Language Technology (HCLT2021)	*South Korea*
2021.10	**Best Paper Award (Language Resource Section), 2021**, The 33rd Annual Conference on Human & Cognitive Language Technology (HCLT2021)	*South Korea*
2021.10	**Best Paper Award (QA and Speech Section), 2021**, The 33rd Annual Conference on Human & Cognitive Language Technology (HCLT2021)	*South Korea*
2021.07	**Ranked 4th on the CommonGen 1.1 Leaderboard (Nov. 2022 Ranked 7th, CommonGen 1.1)**, CommonGen 1.1	*South Korea*
2020.11	**1st Place in Flitto Hackathon (Team Lead), 2020**, Flitto	*South Korea*
2020.10	**Best Paper Award, 2020**, The 32nd Annual Conference on Human & Cognitive Language Technology (HCLT2020)	*South Korea*
2020.05	**Best practices for using NIA AI training data(Korean-English Neural Machine Translation model)**, AI Hub	*South Korea*
2019.10	**Best Paper Award, 2019**, The 31st Annual Conference on Human & Cognitive Language Technology (HCLT2019)	*South Korea*
2019.10	**1st Place Microsoft AI Accessibility Hackathon in Korea (Team Lead)** , Microsoft	*South Korea*
2019.03	**Graduate School Associate Scholarship**, Sungkyunkwan University	*South Korea*
2018.10	**Next Generation Information Processing NLP Competition 2018: Participation Award**, Next-generation information computing technology development business	*South Korea*
2017.06	**Bit Computer Excellence Award (President Award)**, Bit Computer	*South Korea*
2015-2019	**Full Scholarship**, BUFS	*South Korea*
2016-2017	**Scholarship for academic excellence**, Sooyoungro Church	*South Korea*

Selected Research Experience

DataOps and Data Management · *Seoul, South Korea*
Researcher in Upstage · *June. 2022. - Present*

- DataOps research related to OCR and Product Search
- Building training and evaluation data for OCR and Product Search
- Data Management for OCR and Product Search.
- Skills: Data Management, DataOps, OCR, Product Search

(Project) Polyglot: Large Language Models of Well-balanced Competence in Multi-languages · *Seoul, South Korea*
Researcher in Eleuther AI · *September. 2022. - Present*

- Various multilingual models such as mBERT, BLOOM, and XGLM have been released. Therefore, someone might ask, "why do we need to make multilingual models again?" Before answering the question, we would like to ask, "Why do people around the world make monolingual models in their language even though there are already many multilingual models?" We would like to point out there is a dissatisfaction with the non-English language performance of the current multilingual models as one of the most significant reason. So we want to make multilingual models with higher non-English language performance. This is the reason we need to make multilingual models again and why we name them 'Polyglot'.
- Skills: Language Model, Data management

(Project) LGU + VOD Search POC Project · *Seoul, South Korea*
Researcher in Upstage · *June. 2022. - October.2022*

- Gold Testset and evaluation system design for tag extraction model comparison
- Responsible for designing search system evaluation. Planning and designing blind tests for comparison with commercial systems.
- Skills: Customer Experience (CX), Quality Assurance (QA)

(Project) Amorepacific Search commercialization Project

Seoul, South Korea

RESEARCHER IN UPSTAGE

March. 2022. - June.2022

- Participated in Amorepacific's AP Mall search commercialization project
- Stability test planning and design
- Response time testing planning and design
- Establishment of systematic QA process based on bug testing
- Skills: Customer Experience (CX), Quality Assurance (QA)

Product Search Pack

Seoul, South Korea

RESEARCHER IN UPSTAGE

March. 2022. - October. 2022

- Develop Product Search Pack
- Establishment of evaluation system to develop Product Search Pack and responsible for data, planning, and evaluation
- Quality Assurance for Search System, Gold Testset Planning
- Skills: Data Manager, User Experience (UX), Customer Experience (CX), Quality Assurance (QA)

(Project) Korean-Prompt-based Engineering for Few-shot Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

March. 2022. - July. 2022.

- Plain Template Insertion: Korean-Prompt-based Engineering for Few-shot Learners
- Supported by Hyundai Motor
- Publication of research paper in IEEE Access (SCIE): `https://ieeexplore.ieee.org/document/9913979`
- Skills: Prompt learning, Few-shot learning, Pytorch, Huggingface

(Project) Return on Advertising Spend (ROAS) Prediction Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

December. 2021. - March. 2022.

- Return on Advertising Spend (ROAS) refers to the ratio of revenue generated by advertising projects to its expense.
- We present a method for predicting ROAS that does not require controlled experiments in data acquisition and validates its effectiveness through comparative experiments. Specifically, we propose a task deposition method that divides the end-to-end prediction task into the two-stage process; occurrence prediction and occurred ROAS regression.
- Supported by Data voucher
- Publication of research paper in Mathematics (SCIE): `https://www.mdpi.com/2227-7390/10/10/1637`
- Skills: ROAS, Regression, Pytorch

(Project) Hybrid Retriever System for Industrial Frequently Asked Questions Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

December. 2021. - March. 2022.

- We propose a method of returning responses to customer inquiries using only data that can be easily obtained from companies based on the deep learning information retrieval module. In this work, we hybridize dense embedding and sparse embedding to make it robust to professional terms and suggest new functions to scale the results returned by the two modules and adjust the weight ratio.
- Supported by Data voucher
- Publication of research paper in Mathematics (SCIE): `https://www.mdpi.com/2227-7390/10/8/1335`
- Skills: Information Retrieval, Pytorch

Fake News Detection Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

January. 2022. - Present

- Research for Utilization Strategy of User Engagements in Korean Fake News Detection
- Publication of research paper in IEEE Access (SCIE): `https://ieeexplore.ieee.org/document/9841541`
- Skills: Graph Nerual Network, Pytorch, Fairseq

Simultaneous Speech Translation Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

December. 2021. - Present

- Research for Simultaneous Speech Translation for MCN Market
- Skills: Neural Machine Translation, Pytorch, Fairseq

(Project) NAVER PAPAGO - Parallel Corpus Filtering and Mining

Seoul, South Korea

RESEARCHER IN KOREA UNIV

December. 2021. - June. 2022.

- Research for Static and Dynamic Parallel Corpus Filtering and Mining
- Human-inspired curriculum learning based NMT
- Supported by NAVER PAPAGO
- Skills: Neural Machine Translation, Parallel corpus filtering, Pytorch, Fairseq

Data-centric Neural Machine Translation Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

July. 2021. - December. 2021.

- Research for Data-centric Neural Machine Translation, Automatic Post Editing, Quality Estimation, Generative Commonsense Reasoning
- Develop Efficient tool for building high quality parallel corpus and A New Tool for Efficiently Generating Quality Estimation Datasets and A Self-Supervised Automatic Post-Editing Data Generation Tool
- Publication of 3 research paper in NeurIPS 2021 - Data-centric AI (DCAI) workshop: `https://eval.how/dcai2021/index.html`
- Publication of research paper in ICML 2022 - DataPerf workshop: `https://sites.google.com/view/dataperf2022`
- Skills: Neural Machine Translation, Web Application, Fairseq

Korean Commonsense Generation and Reasoning Research

RESEARCHER IN KOREA UNIV

Seoul, South Korea

June. 2021. - Present

- KommonGen: A Dataset for Korean Generative Commonsense Reasoning Evaluation
- Automatic Knowledge Augmentation for Generative Commonsense Reasoning
- Publication of research paper in NAACL 2022: `https://aclanthology.org/2022.findings-naacl.172/`
- Publication of research paper in Knowledge-Based Systems: `https://www.sciencedirect.com/science/article/abs/pii/S0950705122009546`
- Skills: Commonsense Reasoning, Pytorch, Huggingface

Image Retrieval Research

RESEARCHER IN KOREA UNIV

Seoul, South Korea

June. 2021. - September. 2021.

- Grounded Vocabulary for Image Retrieval Using a Modified Multi-Generator Generative Adversarial Network
- Publication of research paper in IEEE Access (SCIE): `https://ieeexplore.ieee.org/document/9585128`
- Skills: Image Retrieval, Pytorch, Huggingface

(Project) Development of patent document invention sentence extraction and key phrase extraction module

RESEARCHER IN KOREA UNIV

Seoul, South Korea

June. 2021. - December. 2021.

- AI for Patent research
- T5 based Key sentence extraction and key phrase generation
- Supported by "LG Innotek"
- Publication of research paper in IEEE Access (SCIE): `https://ieeexplore.ieee.org/document/9779775`
- Skills: Automatic Summarization, Sentence classification, Information Extraction Pytorch, Huggingface

Dialogue Summarization Research

RESEARCHER IN KOREA UNIV

Seoul, South Korea

June. 2021. - Present

- Syntax-Aware Dialogue Summarization using Multi-task Learning
- Skills: Dialogue system, Automatic Summarization, Pytorch, Huggingface
- Publication of research paper in EMNLP 2021 -Widening NLP (WiNLP2021) workshop
- Publication of research paper in NeurIPS 2021 - Women in Machine Learning (WiML 2021) workshop
- Publication of research paper in IEEE Access (SCIE): `https://ieeexplore.ieee.org/abstract/document/9664379/`

Dialogue System Research

RESEARCHER IN KOREA UNIV

Seoul, South Korea

April. 2021. - December. 2021

- Robust Reward Estimator for Multidomain Task-Oriented Dialogue
- Publication of research paper in Applied Science (SCIE): `https://www.mdpi.com/2076-3417/11/14/6624`
- BlenderBot 2.0 Errors Analysis in terms of Model, Data and User-Centric Approach
- Publication of research paper in Arxiv: `https://arxiv.org/abs/2201.03239`
- Focus on FoCus: Is FoCus focused on Context, Knowledge and Persona?
- Publication of research paper in COLING 2022 Workshop: `https://aclanthology.org/2022.ccgpk-1.1.pdf`
- Skills: Dialogue system, Pytorch, Huggingface, ParlAI

(Project) Subtitle production and editing technology development for colloquial broadcasting contents

RESEARCHER IN KOREA UNIV

Seoul, South Korea

April. 2021. - December, 2021.

- Development of Colloquial Aware Neural Machine Translation (CANMT) model that is robust to colloquial expression based on broadcast content
- Consortium: Korea Univ, Hanyang Univ, ON THE IT, SBS Contents Hub, CBS
- Supported by IITP
- Korean Colloquial-Sentence-Splitter(Ko-CSS) for simultaneous speech translation
- Neural Architecture Search(NAS) based NMT Research
- Speech recognition post-processor research
- Cross lingual adaptation research
- Skills: Neural Machine Translation, Automatic Speech Recognition, simultaneous speech translation, Pytorch, Huggingface, Fairseq
- Ko-CSS Demo: `http://nlplab.iptime.org:32285/`

BTS: Speech recognition post-processor Research

RESEARCHER IN KOREA UNIV

Seoul, South Korea

January. 2021. - Present

- Proposed BackTranScription(BTS). Back Transcription (BTS) has seen limited success without the role of phonetic transcription for building and creating vast datasets automatically.
- Publication of research paper in WAT 2021 (ACL Workshop): `https://aclanthology.org/2021.wat-1.10/`
- Publication of research paper in Mathematics: `https://www.mdpi.com/2227-7390/10/19/3618`
- Skills: Neural Machine Translation, Pytorch, Huggingface, Fairseq

Cross Lingual Pretrained Language Model Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

January. 2021. - Present

- Research for Exploring the Data Efficiency of Cross-Lingual Post-Training in Pretrained Language Models
- Research for combining BART and Parallel Corpus Filtering
- Publication of research paper in Applied Science (SCIE): `https://www.mdpi.com/2076-3417/11/5/1974`
- Skills: Neural Machine Translation, Pytorch, Huggingface, Fairseq

Automatic Post Editing Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

January. 2021. - Present

- APE research based on Cross Lingual Pretrained Language Model
- Adpater based APE research
- Publication of research paper in IEEE Access (SCIE): `https://ieeexplore.ieee.org/document/9528385/`
- Research for Efficient and Simple Data Generation Method - Low Resource APE and Pseudo APE data generation
- Publication of research paper in IEEE Access (SCIE): `https://ieeexplore.ieee.org/document/9714400`
- Research for Synthetic Data Generation Using Noising Strategies for Automatic Post-editing
- Publication of research paper in LREC 2022: `http://www.lrec-conf.org/proceedings/lrec2022/pdf/2022.lrec-1.93.pdf`
- Skills: Neural Machine Translation, Pytorch, Automatic Post Editing, Huggingface, Fairseq

Quality Estimation Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

January. 2021. - Present

- Large Scale PLM based Quality Estimation development and research
- Low Resource QE and Pseudo QE data generation
- Publication of research paper in Applied Science (SCIE): `https://www.mdpi.com/2076-3417/11/14/6584`
- Publication of research paper in MT Summit 2021 - LoresMT Workshop: `https://aclanthology.org/2021.mtsummit-loresmt.1/`
- Publication of research paper in IEEE Access: `https://ieeexplore.ieee.org/document/9761258`
- Publication of research paper in COLING 2022: `https://aclanthology.org/2022.coling-1.460.pdf`
- 1st place in WMT 2022 QE Task 3: KU X Upstage's submission for the WMT22 Quality Estimation: Critical Error Detection Shared Task
- Skills: Neural Machine Translation, Pytorch, Quality Estimation, OpenKiwi, Huggingface, Fairseq

COVID-19 Machine Translation Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

May. 2020. - November.2020

- Neural Machine translation specialized for COVID-19 domain
- Skills: Neural Machine Translation, Pytorch, Python
- Publication of research paper in Journal of the Korea Convergence Society(KCI): `https://bit.ly/2QgQKLK`

(Project) Domain Specialized Neural Machine Translation (Security)

Seoul, South Korea

RESEARCHER IN KOREA UNIV

May. 2020. - November.2020

- Research on Neural Machine Translation specialized for security domain
- Supported by "National Security Research Institute"
- Project Manager, Tech Lead
- Development of the latest translation model based on Transformer/BERT, AI-based Korean-English translation model suitable for the security field, and research trend of the latest AI-based translation technology research
- We propose Cross Communication Method (CCM), a new DS-NMT training methodology, inspired by cognitive scientific interpretation of cross language speech perception. This is the first study to reflect cognitive science theory in DS-NMT training methodology.
- Publication of research paper in IEEE Access: `https://ieeexplore.ieee.org/document/9751075`
- Skills: Neural Machine Translation, Pytorch, Python

(Project) A Neural-Symbolic Model for Knowledge Acquisition and Inference Techniques

Seoul, South Korea

RESEARCHER IN KOREA UNIV

April. 2020. - Present

- Neural-Symbolic Model Research and Development
- Skills: Neural Symbolic Computing, Knowledge base, Pytorch, Python
- Supported by IITP
- Demo: `http://nlplab.iptime.org:32245/`

Ancient Korean Neural Machine Translation Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

March. 2020. - Present

- Ancient Korean Neural Machine Translation Research
- Bilingual Word Embedding for Ancient Korean Neural Machine Translation
- Priming Ancient Korean Neural Machine Translation Research
- Publication of research paper in IEEE Access(SCIE): `https://ieeexplore.ieee.org/document/9125904/`
- Publication of research paper in LREC 2022: `http://www.lrec-conf.org/proceedings/lrec2022/pdf/2022.lrec-1.3.pdf`
- Skills: Pytorch, Python, REST API,Flask,Neural Machine Translation

Deep Learning based Grammar Error Correction Research

Seoul, South Korea

RESEARCHER IN KOREA UNIV

June. 2019. - June.2020

- Deep learning based English grammar corrector development
- Publication of research paper in IEEE Access(SCIE): `https://ieeexplore.ieee.org/document/9102992`
- Skills: Pytorch, Python, REST API,Flask,Neural Machine Translation

Deep Learning based Korean Spelling Correction Research

RESEARCHER IN KOREA Univ

Seoul, South Korea
June. 2019. - Present

- Development of Korean spelling corrector based on deep learning
- We propose a gold test set, K-NCT (Korean Neural grammar Correction Test set), for Korean grammar error correction and a new error type classification guideline.
- Publication of research paper in multimedia tools and applications (SCIE): `https://link.springer.com/article/10.1007/s11042-020-09148-2`
- Publication of research paper in IEEE Access (SCIE): `https://link.springer.com/article/10.1007/s11042-020-09148-2`
- Skills: Pytorch, Python, REST API,Flask,Neural Machine Translation

Neural Machine Translation Research

RESEARCHER IN KOREA Univ

Seoul, South Korea
June. 2019. - Present

- Deep learning based Korean-English and English-Korean, Korean-Japanese machine translator development
- Research for Parallel Corpus Filtering, Data Augmentation, Various decoding strategies
- Best practices for using NIA AI training data: `http://www.aihub.or.kr/node/4525`
- Publication of research paper in ELECTRONICS (SCIE): `https://www.mdpi.com/2079-9292/9/10/1562#cite`
- Our paper is accepted in NAACL 2021 Industrial Track: "Should we find another model?: Improving Neural Machine Translation Performance with ONE-Piece Tokenization Method without Model Modification"
- How to improve the performance of NMT without changing the model through data pre- and post-processing
- Publication of research paper in NAACL 2021: `https://www.aclweb.org/anthology/2021.naacl-industry.13/`
- Verification of Ensemble Effect in Neural Machine Translation
- Publication of research paper in EMNLP 2021 - Workshop on Insights from Negative Results in NLP: `https://insights-workshop.github.io/2021/cfp/`
- Publication of research paper in Applied Sciences (SCIE): `https://www.mdpi.com/2076-3417/12/11/5545`
- Skills: Pytorch, Python, REST API,Flask,Neural Machine Translation

AI for Education Research

RESEARCHER IN KOREA Univ

Seoul, South Korea
April. 2019. - Present

- FreeTalky: Don't Be Afraid! Conversations Made Easier by a Humanoid Robot using Persona-based Dialogue
- Publication of research paper in AAAI 2022 - Artificial Intelligence for Education (AI4EDU) workshop: `https://arxiv.org/abs/2112.04126`
- Publication of research paper in LREC 2022: `http://www.lrec-conf.org/proceedings/lrec2022/pdf/2022.lrec-1.132.pdf`
- Automatic Essay Scoring Research
- PEEP-Talk: Deep Learning-based English Education Platform for Personalized Foreign Language Learning
- AI student: A Machine Reading Comprehension System for the Korean College Scholastic Ability Test
- Publication of research paper in Mathematics (SCIE): `https://www.mdpi.com/2227-7390/10/9/1486`
- BERTOEIC: Solving TOEIC Problems Using Simple and Efficient Data Augmentation Techniques with Pretrained Transformer Encoders
- Publication of research paper in Applied Sciences (SCIE) : `https://www.mdpi.com/2076-3417/12/13/6686`
- Skills: Pytorch, Python, Google Cloud Platform, REST API, Nao Toolkit

AI for Accessibility Research

RESEARCHER IN KOREA Univ

Seoul, South Korea
June. 2019. - Present

- PicTalky: Design of augmentative alternative communication (AAC) software for children with developmental disabilities
- 1st Place Microsoft AI Accessibility Hackathon in Korea (Team Lead)
- Award: `https://bit.ly/2vPaZ91`
- PickTalky Demo: `https://pictalky-311.de.r.appspot.com/`
- Publication of research paper in AACL 2022 Demo Track: `https://preview.aclanthology.org/aacl-22-ingestion/2022.aacl-demo.3/`
- Skills: Pytorch, Python, Google Cloud Platform, REST API, Nao Toolkit

(Project) Research and development of human-inspired multiple intelligence

RESEARCHER IN KOREA Univ

Seoul, South Korea
September. 2019. - August. 2022

- Human-inspired language understanding model
- Funded by the Korea Ministry of Science and ICT (MSIT)
- Site: `http://hiai.co.kr/`

(Project) Next-generation information computing technology development business

RESEARCHER IN KOREA Univ

Seoul, South Korea
September. 2019. - January. 2021.

- Development of Core Application Techniques for Korean Intelligent Systems
- Research and development of Korean natural language processing core technology

(Project) Core technology development of the real-time simultaneous speech translation based on knowledge enhancement

RESEARCHER IN SYSTRAN

Seoul, South Korea
June. 2018. - July.2019

- Collaboration with the Korea Electronics and Telecommunications Research Institute (ETRI) Language Intelligence Research Group
- Director: Dr. Young-Gil Kim (ETRI)
- 3rd year: Real-time lecture interpretation solution development
- 4th year: Busan University of Foreign Studies Field Groud Test (FGT) progress and software maintenance
- Skills: JAVA, JAVA FX, Kaldi

(Project) Neural Machine Translation service for SK Telecom's in-house education program

RESEARCHER IN SYSTRAN

Seoul, South Korea

April. 2019. - April.2019

- Development of automation software to provide translation service to SK Telecom's in-house education program
- Skills: Python

LCloud-API Platform Service Development

RESEARCHER IN SYSTRAN

Seoul, South Korea

January. 2019. - June.2019

- Planning and development of natural language processing API Platform Service
- Gravitee IO-based platform design, planning, marketing materials production, strategy establishment
- REST API management using Swagger
- Transcription API, Translation API, Address Correction API, Speaker Verification API
- Learned Microservices architecture(MSA),IT Infrastructure
- Skills: Gravitee IO,Microservices architecture(MSA), IT Infrastructure, Mockup, Marketing, Strategic Planning, Technology management, Amazon AWS

Speech recognition transcription tool development

RESEARCHER IN SYSTRAN

Seoul, South Korea

January. 2019. - July. 2019

- Development and maintenance of speech recognition transcription tool, modification and addition of various functions
- Skills: Front End, Spring Boot, Flask, AJAX, MySQL, Kaldi,

(Project) CJ Logistics Speech Recognition Agent

RESEARCHER IN SYSTRAN

Seoul, South Korea

Aug. 2018. - July. 2019

- CJ Logistics artificial intelligence (AI) virtual assistant project
- Skills: Quality Assurance, Quality control, Mockup, Strategic Planning,Kaldi

Automatic subtitle generation platform service development and planning

RESEARCHER IN SYSTRAN

Seoul, South Korea

June. 2018. - June.2019

- Development and maintenance of automatic subtitle generation platform
- Establish platform service strategies such as B2B and B2C
- Various company contacts and SWOT analysis
- Skills: JAVA, JAVA FX, Kaldi, Mockup,Strategic Planning, Technology management, Marketing

Planning of English speaking evaluation platform service

RESEARCHER IN SYSTRAN

Seoul, South Korea

June. 2018. - December.2018

- Establishing a service strategy using English speaking evaluation technology
- English speaking evaluation technology Q.A & Q.C
- Skills: Quality Assurance, Quality control, Mockup, Strategic Planning, Technology management, Marketing

Speech Recognition Research

RESEARCHER IN SYSTRAN

Seoul, South Korea

Aug. 2018. - July. 2019

- Research for Automatic Speech Recognition Technology based on Kaldi
- Acoustic Model, Language Model
- Speaker Verification
- English speaking evaluation
- Real-time speech recognition system
- Skills: Kaldi

Neural Machine Translation Research

RESEARCHER IN SYSTRAN

Seoul, South Korea

Aug. 2018. - July. 2019

- Research for Neural Machine Translation
- Skills: OpenNMT Tensorflow, OpenNMT Pytorch

(Project) Development of multilingual word translation service based on Korean semantics analysis for multicultural family

RESEARCHER IN BUFS

Seoul, South Korea

Sep. 2016. - June. 2018

- Han-Tong-E: Multilingual Word Translation Service based on Word Semantic Analysis
- Collaboration with Professor Ok Cheol-young's laboratory at Ulsan University
- Project homepage development
- In-depth understanding of Utagger and seminar on WSD
- Build project-related data and conduct surveys
- Project Page: `https://bufsconv.blogspot.kr/`
- Funded by National Research Foundation of Korea(NRF)

(Project) Establishment of Gold Standard language resource bank for Korean machine learning and evaluation (Next-generation information computing technology development business) — *Seoul, South Korea*

RESEARCHER IN BUFS — *Sep. 2017. - June. 2018*

- For the purpose of developing Korean Natural Language Toolkit
- Development of automatic Korean word spacing and Korean compound noun decomposer
- Skills: Python

(Project) Local industry development project in connection with public institutions — *Seoul, South Korea*

RESEARCHER IN BUFS — *Sep. 2016. - Aug. 2017*

- ICT VAEMS: Vertical Aquaculture Energy Management
- Funded by the Korea Institute for Advancement of Technology(KIAT)

(Project) Basic Research on Semantic Frame Generation for Short Questions (ExoBrain) — *Seoul, South Korea*

RESEARCHER IN BUFS — *Oct. 2015. - Feb. 2016*

- Exobrain Project

Professional Experience

Upstage — *Seoul, South Korea*

AI RESEARCH ENGINEER — *March. 2022 - Present*

- About Upstage: `https://www.upstage.ai/`
- Product Search Team -> Data Team
- Responsible roles related to search system evaluation
- Establishment of evaluation system to develop Product Search Pack and responsible for data, planning, and evaluation
- Semantic search project with AMOREPACIFIC
- Semantic search project with LG U+
- Semantic Seaerch-related DataOps
- OCR-related DataOps
- Research for Data-centric AI

SYSTRAN — *Seoul, South Korea*

RESEARCH ENGINEER — *Sep. 2018 - July. 2019*

- About SYSTRAN: `https://www.systransoft.com/`
- Automatic Speech Recognition(ASR) Team
- Core technology development of the real-time simultaneous speech translation based on knowledge enhancement (ETRI)
- Participated in NTT Docomo speech Recognition Solution Project
- Participated in CJ Logistics speech recognition agent development project
- Participated in Samsung SDS speech recognition project
- Speech recognition service planning and development (Real-time lecture interpretation, Automatic subtitle generation service, English speaking evaluation, Customer-specific recognizer service, Web RTC-based Real-time video interpretation)
- Deep learning based speech recognition research (Acoustic Model, Language Model Training)
- Machine Translation research
- Iaas and Paas service planning, API Platform service operation planning, B2B B2C planning and development
- Micro Service Architecture Design and Successful API Platform Service Launching Experience (LCloud)
- Governmental project proposal experience
- Reason for leaving: Graduate school

SYSTRAN — *Seoul, South Korea*

RESEARCH INTERN — *June. 2018 - August. 2018*

- Automatic Speech Recognition(ASR) Team
- Participated a project "Core technology development of the real-time simultaneous speech translation based on knowledge enhancement (ETRI)"
- Developed Simultaneous Speech Translation (implemented using JAVA, Python and Kaldi)

Skills

Programming	Python, JAVA, C / C++
Machine Learning & Deep Learning	Pytorch, Pytorch lightning, Keras, Tensorflow
Natural Language Processing	Machine Translation, Speech Recognition, Information Retrieval, Huggingface, OpenNMT, Kaldi, FAISS
Full Stack	Html, CSS, Javascipt, Java FX, Oracle, MySQL, Spring Boot, VertX, AWS
Product & Project & Data Manager	MS Office, Notion, Slack, Linear, Whimsical, Recruitee, Redmine
Strategy & Planning	API Platform Service, Platform Service Planning, Gravitee IO, Paas, Iaas, Q.A, Q.C, Mockup, Swagger
Etc	Linux, Docker, Web RTC, Latex
Language Skills	Korean, English, Japanese, Thai, Myanmar

Patents

2019.12	**Device and method for correcting Korean spelling**, Granted Patent (10-2430918)	*South Korea*
2020.09	**APPARATUS AND METHOD FOR OUTPUTTING IMAGE CORRESPONDING TO LANGUAGE**, Granted Patent (10-2476497)	*South Korea*
2020.09	**METHOD OF TRANSLATING ANCIENT KOREAN USING MACHINE TRANSLATION**, Granted Patent (10-2425922)	*South Korea*
2022.04	**Correction performance evaluation metrics of neural network machine translation and method of constructing the same**, Granted Patent (10-2390154)	*South Korea*
2020.09	**METHOD OF BUILDING TRAINING DATA OF MACHINE TRANSLATION**, Granted Patent (10-2409667)	*South Korea*
2021.03	**Improving speech recognition performance using TTS in domain-specific environment**, Apply for a patent	*South Korea*
2021.05	**Method For Generating Training Data And Method For Post-Processing Of Speech Recognition Using The Same**, Apply for a patent	*South Korea*
2021.09	**DEVICE AND METHOD FOR GENERATING OPTIMAL TRANSLATION SUBTITLE USING QUALITY ESTIMATION**, Apply for a patent	*South Korea*
2021.09	**DEVICE AND METHOD FOR GENERATING TRAINING DATA FOR AUTOMATIC POST EDITING**, Apply for a patent	*South Korea*
2021.09	**METHOD OF BUILDING TRAINING DATA OF MACHINE TRANSLATION**, PCT International Application	*South Korea*
2021.09	**APPRATUS FOR CORPUS PROCESSING, APPARATUS AND METHOD AND MATHINE TRANSLATION**, Apply for a patent	*South Korea*
2021.11	**DEVICE AND METHOD FOR GENERATING OF TRAINING DATA FOR QUALITY ESTIMATION IN MACHINE TRANSLATION**, Apply for a patent	*South Korea*

Demo

2019.12	**Deep Learning based English Grammar Error Correction**, `http://nlplab.iptime.org:32292/`	*South Korea*
2019.12	**Deep Learning based Korean Spelling Correction**, `http://nlplab.iptime.org:32288/`	*South Korea*
2020.01	**Korea University Neural Machine Translation Platform**, `http://nlplab.iptime.org:32296/`	*South Korea*
2020.02	**Neural Symbolic Inference**, `http://nlplab.iptime.org:32245/`	*South Korea*
2020.02	**English Free Talking and Grammar Error Correction Feed Back System using NAO Robot**, `https://www.youtube.com/watch?v=Rl6dG_4cnFk`	*South Korea*
2020.03	**Korean Ancient Neural Machine Translation Platform**, `http://nlplab.iptime.org:32242/`	*South Korea*
2020.03	**PicTalky: Text to Pictogram Demo for Children with Developmental Disabilities**, `https://pictalky-311.de.r.appspot.com/`	*South Korea*
2020.05	**COVID-19 Machine Translation Platform**, `http://nlplab.iptime.org:32250/`	*South Korea*
2020.07	**Ancient Korean Translation & Machine Reading Comprehension with NAO**, `https://www.youtube.com/watch?v=nXBZe-t9a-4&t=8s`	*South Korea*
2020.11	**Bilingual Education Using NAO**, `https://www.youtube.com/watch?v=4kCMMa62LDY&t=9s`	*South Korea*
2021.04	**Ko-CSS (Korean Colloquial-Sentence-Splitter) for simultaneous speech translation**, `http://nlplab.iptime.org:32285/`	*South Korea*
2021.06	**BTS (BackTranScription) for STT Post-Processor**, `https://backtrans-317413.de.r.appspot.com/`	*South Korea*
2021.09	**Translation platfrom with AIHUB dataset**, `http://nlplab.iptime.org:32247/`	*South Korea*
2021.09	**Con-Talky**, `http://nlplab.iptime.org:32245/`	*South Korea*
2021.09	**Korea University English Grammar Corrector KakaoTalk Channel**, `http://pf.kakao.com/_cqxkps`	*South Korea*
2021.09	**PEEP-Talk**, `http://pf.kakao.com/_FlDxgs`	*South Korea*
2021.10	**A Tool for generating High-Quality Parallel Corpus considering Human Translation Market**, `http://nlplab.iptime.org:9090/`	*South Korea*
2021.10	**A New Tool for Efficiently Generating Quality Estimation Datasets**, `http://nlplab.iptime.org:9091/`	*South Korea*
2021.11	**A Self-Supervised Automatic Post-Editing Data Generation Tool**, `http://nlplab.iptime.org:9092/`	*South Korea*

Invited Talk & Teaching Experience

Sunmoon University *South Korea*

PRESENTER *December. 2022*

- Real-World Centric AI
- Invited by Sunmoon University

Kyungsung University
South Korea

<small>PRESENTER</small>   *August. 2022*

- Language and Information Studies and the Future of Artificial Intelligence
- Invited by Kyungsung University

Hankuk University of Foreign Studies
South Korea

<small>PRESENTER</small>   *July. 2022*

- Basic practice of natural language processing for everyone
- Invited by Hankuk University of Foreign Studies, Interpreting and Translation Research Institute (ITRI)

Dongguk University
South Korea

<small>PRESENTER</small>   *January. 2022*

- Artificial intelligence and Machine Translation lectures (3 times)
- Invited by Dongguk University, Department of English Language and Literature

Korea University
South Korea

<small>TEACHING ASSISTANT</small>   *Autumn 2021*

- (BDC101) Introduction to Natural Language Processing in Big Data

Busan Social Welfare Development Institute
South Korea

<small>INVITED ADVISOR</small>   *July. 2021*

- Attending advisory meetings and Focus Group Interview
- ICT-Based Ecosystem Construction Plan to Secure Opportunities to Enjoy Together - A Study on Developmental Disabilities

Korea University
South Korea

<small>HEAD TEACHING ASSISTANT</small>   *Autumn 2020*

- (BDC101) Introduction to Natural Language Processing in Big Data
- (DFE610) Natural Language Processing for Digital Finance Engineering

Korea University
South Korea

<small>TEACHING ASSISTANT</small>   *Spring 2020*

- (COSE461)Natural Language Processing
- (DFC615)Artificial Intelligence and Natural Language Processing
- Lecture materials: `https://github.com/Parkchanjun/KU-NLP-2020-1`

LLsoLLu
South Korea

<small>PRESENTER</small>   *March. 2020*

- Latest natural language processing trends
- Language Representation, Neural Symbolic Computing
- Invited by LLsoLLu Global Strategy and Planning Team

NC SOFT
South Korea

<small>PRESENTER</small>   *February. 2020*

- Technology Transfer Seminar
- Korean Spelling Corrector Using Automatic Noise Generation Methodology
- Invited by NC SOFT Language AI Team

Dongguk University
South Korea

<small>PRESENTER</small>   *January. 2020*

- A.I - NLP - MT for Liberal Arts
- Introduction to Natural Language Processing,RBMT,SMT,NMT, OpenNMT
- Invited by Dongguk University, Department of English Language and Literature professor.Myung-Kwan Park
- Lecture materials: `https://github.com/Parkchanjun/Dongguk_AI_NLP_MachineTranslation`

SKC
South Korea

<small>INSTRUCTOR</small>   *Oct. 2019 - Nov.2019*

- Deep Learning and Natural Language Processing Course
- Introduction of Text Preprocessing and NLP for Linguistics
- Introduction of Word Embedding
- Introduction of Machine Translation
- Lecture materials(Text Preprocessing): `https://github.com/Parkchanjun/SKC_Text_Preprocessing`
- Lecture materials(Introduction of Machine Translation): `https://github.com/Parkchanjun/SKC_MachineTranslation`

Naver Tech Talk
South Korea

<small>PRESENTER</small>   *Aug. 2019*

- Machine Translation for Everyone
- Invited by Sung Kim who are the Head of Naver Clova A.I
- Lecture videos: `https://tv.naver.com/v/9906991`

SK T Academy *South Korea*

INSTRUCTOR *Aug. 2019*

- Machine Translation for Everyone
- Invited by SK Planet
- Introduction to Natural Language Processing,RBMT,SMT,NMT, OpenNMT
- Lecture videos: `https://tacademy.skplanet.com/live/player/onlineLectureDetail.action?seq=165`

Sooyoungro Church *South Korea*

INSTRUCTOR *Aug. 2017 - Dec.2017*

- Sooyoungro Church Dream Bowl School Instructor (Free Service)
- Basic English Grammar and English Conversation Education

Korea Press Foundation *South Korea*

INSTRUCTOR *Aug. 2015 - Dec.2015*

- Reading mentoring

All Publications

PREPRINTS

Empirical study on BlenderBot 2.0 Errors Analysis in terms of Model, Data and User-Centric Approach
Jungseob Lee, Midan Shim, Suhyune Son, Yujin Kim, **Chanjun Park**, Heuiseok Lim, **(Equal Contribution (First Co-Author))**
arXiv preprint arXiv:2201.03239 (2022). 2022

Language Chameleon: Transformation analysis between languages using Cross-lingual Post-training based on Pre-trained language models
Suhyune Son, **Chanjun Park**, Jungseob Lee, Midan Shim, Chanhee Lee, Yoonna Jang, Jaehyung Seo, Heuiseok Lim, **(Equal Contribution (First Co-Author))**
arXiv preprint arXiv:2209.06422 (2022). 2022

TOP CONFERENCE

FreeTalky: Don't Be Afraid! Conversations Made Easier by a Humanoid Robot using Persona-based Dialogue
Chanjun Park, Yoonna Jang, Seolhwa Lee, Sungjin Park, Heuiseok Lim
LREC 2022 (Proceedings of the Language Resources and Evaluation Conference), 2022, Marseille, France

Priming Ancient Korean Neural Machine Translation
Chanjun Park, Seolhwa Lee, Jaehyung Seo, Hyeonseok Moon, Sugyeong Eo, Heuiseok Lim
LREC 2022 (Proceedings of the Language Resources and Evaluation Conference), 2022, Marseille, France

QUAK: A Synthetic Quality Estimation Dataset for Korean-English Neural Machine Translation
Sugyeong Eo, **Chanjun Park**, Hyeonseok Moon, Jaehyung Seo, Gyeongmin Kim, Jungseob Lee, Heui-Seok Lim
COLING 2022 - Proceedings of the 29th International Conference on Computational Linguistics, 2022

KU X Upstage's Submission for the WMT22 Quality Estimation: Critical Error Detection Shared Task
Sugyeong Eo, **Chanjun Park**, Hyeonseok Moon, Jaehyung Seo, Heuiseok Lim
WMT 2022 - EMNLP 2022 - Proceedings of the Seventh Conference on Machine Translation, 2022, Abu Dhabi

Focus on FoCus: Is FoCus focused on Context, Knowledge and Persona?
SeungYoon Lee, Jungseob Lee, **Chanjun Park**, Sugyeong Eo, Hyeonseok Moon, Jaehyung Seo, Jeongbae Park, Heui-Seok Lim
Proceedings of the 1st Workshop on Customized Chat Grounding Persona and Knowledge, 2022

A Self-Supervised Automatic Post-Editing Data Generation Tool
Hyeonseok Moon, **Chanjun Park**, Sugyeong Eo, Jaehyung Seo, SeungJun Lee, Heuiseok Lim
ICML 2022 - DataPerf workshop, 2022 (2022). 2022

Empirical Analysis of Noising Scheme based Synthetic Data Generation for Automatic Post-editing
Hyeonseok Moon, **Chanjun Park**, Seolhwa Lee, Jaehyung Seo, Jungseob Lee, Sugyeong Eo, Heuiseok Lim
LREC 2022 (Proceedings of the Language Resources and Evaluation Conference), 2022, Marseille, France

A Dog Is Passing Over The Jet? A Text-Generation Dataset for Korean Commonsense Reasoning and Evaluation
Jaehyung Seo, Seounghoon Lee, **Chanjun Park**, Yoonna Jang, Hyeonseok Moon, Sugyeong Eo, Seonmin Koo, Heuiseok Lim
Findings of the Association for Computational Linguistics: NAACL 2022, 2022, Seattle, United States

Should we find another model?: Improving Neural Machine Translation Performance with ONE-Piece Tokenization Method without Model Modification
Chanjun Park, Sugyeong Eo, Hyeonseok Moon, Heui-Seok Lim
NAACL 2021 - Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies: Industry Papers, 2021

FreeTalky: Don't Be Afraid! Conversations Made Easier by a Humanoid Robot using Persona-based Dialogue
Chanjun Park, Yoonna Jang, Seolhwa Lee, Sungjin Park, Heuiseok Lim
AAAI 2022 - Artificial Intelligence for Education(AI4EDU) (2021). 2021

How should human translation coexist with NMT? Efficient tool for building high quality parallel corpus
Chanjun Park, Seolhwa Lee, Hyeonseok Moon, Sugyeong Eo, Jaehyung Seo, Heuiseok Lim
NeurIPS 2021 - Data-centric AI (DCAI) workshop (2021). 2021

Two Heads are Better than One? Verification of Ensemble Effect in Neural Machine Translation
 Chanjun Park, Sungjin Park, Seolhwa Lee, Taesun Whang, Heuiseok Lim
EMNLP 2021 - Proceedings of the Second Workshop on Insights from Negative Results in NLP, 2021, Online and Punta Cana, Dominican Republic

BTS: Back TranScription for Speech-to-Text Post-Processor using Text-to-Speech-to-Text
 Chanjun Park, Jaehyung Seo, Seolhwa Lee, Chanhee Lee, Hyeonseok Moon, Sugyeong Eo, Heuiseok Lim
ACL 2021 - Proceedings of the 8th Workshop on Asian Translation (WAT2021), 2021, Online

Dealing with the Paradox of Quality Estimation
Sugyeong Eo, **Chanjun Park**, Hyeonseok Moon, Jaehyung Seo, Heuiseok Lim, **(Equal Contribution (First Co-Author))**
MT Summit - Proceedings of the 4th Workshop on Technologies for MT of Low Resource Languages (LoResMT2021), 2021, Virtual

A New Tool for Efficiently Generating Quality Estimation Datasets
Sugyeong Eo, Chanjun Park, Jaehyung Seo, Hyeonseok Moon, Heuiseok Lim
NeurIPS 2021 - Data-centric AI (DCAI) workshop, 2021

Syntax-enhanced Dialogue Summarization using Syntax-aware information
Seolhwa Lee, Kisu Yang, **Chanjun Park**, João Sedoc, Heui-Seok Lim
NerIPS 2021 16th Women in Machine Learning Workshop, 2021

Towards Syntax-Aware Dialogue Summarization using Multi-task Learning
Seolhwa Lee, Kisu Yang, **Chanjun Park**, João Sedoc, Heui-Seok Lim
EMNLP 2021 -Widening NLP (WiNLP2021) workshop, 2021

Automatic Knowledge Augmentation for Generative Commonsense Reasoning
Jaehyung Seo, **Chanjun Park**, Sugyeong Eo, Hyeonseok Moon, Heuiseok Lim
NeurIPS 2021 - Data-centric AI (DCAI) workshop, 2021

INTERNATIONAL JOURNAL

Mimicking Infants' Bilingual Language Acquisition for Domain Specialized Neural Machine Translation
 Chanjun Park, Woo-Young Go, Sugyeong Eo, Hyeonseok Moon, Seolhwa Lee, Heuiseok Lim
IEEE Access 10 (2022) pp. 38684–38693. IEEE, 2022

The ASR Post-Processor Performance Challenges of BackTranScription (BTS): Data-Centric and Model-Centric Approaches
 Chanjun Park, Jaehyung Seo, Seolhwa Lee, Chanhee Lee, Heuiseok Lim
Mathematics 10.19 (2022). 2022

Empirical Analysis of Parallel Corpora and In-Depth Analysis Using LIWC
 Chanjun Park, Midan Shim, Sugyeong Eo, Seolhwa Lee, Jaehyung Seo, Hyeonseok Moon, Heuiseok Lim
Applied Sciences 12.11 (2022) p. 5545. Multidisciplinary Digital Publishing Institute, 2022

Word-level Quality Estimation for Korean-English Neural Machine Translation
Sugyeong Eo, **Chanjun Park**, Hyeonseok Moon, Jaehyung Seo, Heuiseok Lim, **(Equal Contribution (First Co-Author))**
IEEE Access 10 (2022) pp. 44964–44973. IEEE, 2022

Research on Utilization Strategy of User Engagements in Korean Fake News Detection
Myunghoon Kang, Jaehyung Seo, **Chanjun Park**, Heuiseok Lim
IEEE Access (2022) pp. 1–1. 2022

AI Student: A Machine Reading Comprehension System for the Korean College Scholastic Ability Test
Gyeongmin Kim, Soomin Lee, **Chanjun Park**, Jaechoon Jo
Mathematics 10.9 (2022) p. 1486. Multidisciplinary Digital Publishing Institute, 2022

K-NCT: Korean Neural Grammatical Error Correction Gold-Standard Test Set Using Novel Error Type Classification Criteria
Seonmin Koo, **Chanjun Park**, Jaehyung Seo, Seungjun Lee, Hyeonseok Moon, Jungseob Lee, Heuiseok Lim, **(Equal Contribution (First Co-Author))**
IEEE Access (2022). IEEE, 2022

BERTOEIC: Solving TOEIC Problems Using Simple and Efficient Data Augmentation Techniques with Pretrained Transformer Encoders
Jeongwoo Lee, Hyeonseok Moon, **Chanjun Park**, Jaehyung Seo, Sugyeong Eo, Heuiseok Lim
Applied Sciences 12.13 (2022) p. 6686. Multidisciplinary Digital Publishing Institute, 2022

An Automatic Post Editing with Efficient and Simple Data Generation Method
Hyeonseok Moon, **Chanjun Park**, Jaehyung Seo, Sugyeong Eo, Heuiseok Lim, **(Equal Contribution (First Co-Author))**
IEEE Access (2022). IEEE, 2022

Return on Advertising Spend Prediction with Task Decomposition-Based LSTM Model
Hyeonseok Moon, Taemin Lee, Jaehyung Seo, **Chanjun Park**, Sugyeong Eo, Imatitikua D Aiyanyo, Jeongbae Park, Aram So, Kyoungwha Ok, Kinam Park
Mathematics 10.10 (2022) p. 1637. MDPI, 2022

Dense-to-Question and Sparse-to-Answer: Hybrid Retriever System for Industrial Frequently Asked Questions
Jaehyung Seo, Taemin Lee, Hyeonseok Moon, **Chanjun Park**, Sugyeong Eo, Imatitikua D Aiyanyo, Kinam Park, Aram So, Sungmin Ahn, Jeongbae Park
Mathematics 10.8 (2022) p. 1335. MDPI, 2022

Plain Template Insertion: Korean-Prompt-Based Engineering for Few-Shot Learners
Jaehyung Seo, Hyeonseok Moon, Chanhee Lee, Sugyeong Eo, **Chanjun Park**, Jihoon Kim, Changwoo Chun, Heuiseok Lim
IEEE Access 10 (2022) pp. 107587–107597. 2022

PU-GEN: Enhancing generative commonsense reasoning for language models with human-centered knowledge
Jaehyung Seo, Dongsuk Oh, Sugyeong Eo, **Chanjun Park**, Kisu Yang, Hyeonseok Moon, Kinam Park, Heuiseok Lim

Knowledge-Based Systems (2022) p. 109861. Elsevier, 2022

AI for Patents: A Novel yet Effective and Efficient Framework for Patent Analysis
Junyoung Son, Hyeonseok Moon, Jeongwoo Lee, Seolhwa Lee, **Chanjun Park**, Wonkyung Jung, Heuiseok Lim
IEEE Access 10 (2022) pp. 59205–59218. IEEE, 2022

PicTalky: Augmentative and Alternative Communication Software for Language Developmental Disabilities
 Chanjun Park, Yoonna Jang, Seolhwa Lee, Jaehyung Seo, Kisu Yang, Heuiseok Lim
AACL 2022 - Demo Track (2021). 2021

Comparative Analysis of Current Approaches to Quality Estimation for Neural Machine Translation
Sugyeong Eo, **Chanjun Park**, Hyeonseok Moon, Jaehyung Seo, Heuiseok Lim, **(Equal Contribution (First Co-Author))**
Applied Sciences 11.14 (2021) p. 6584. Multidisciplinary Digital Publishing Institute, 2021

Grounded Vocabulary for Image Retrieval Using a Modified Multi-Generator Generative Adversarial Network
Kuekyeng Kim, **Chanjun Park**, Jaehyung Seo, Heuiseok Lim
IEEE Access (2021). IEEE, 2021

Exploring the Data Efficiency of Cross-Lingual Post-Training in Pretrained Language Models
Chanhee Lee, Kisu Yang, Taesun Whang, **Chanjun Park**, Andrew Matteson, Heuiseok Lim
Applied Sciences 11.5 (2021) p. 1974. Multidisciplinary Digital Publishing Institute, 2021

Who speaks like a style of Vitamin: Towards Syntax-Aware Dialogue Summarization using Multi-task Learning
Seolhwa Lee, Kisu Yang, **Chanjun Park**, João Sedoc, Heuiseok Lim
IEEE Access (2021). IEEE, 2021

An Empirical Study on Automatic Post Editing for Neural Machine Translation
Hyeonseok Moon, **Chanjun Park**, Sugyeong Eo, Jaehyung Seo, Heuiseok Lim, **(Equal Contribution (First Co-Author))**
IEEE Access 9 (2021) pp. 123754–123763. IEEE, 2021

Variational Reward Estimator Bottleneck: Towards Robust Reward Estimator for Multidomain Task-Oriented Dialogue
Jeiyoon Park, Chanhee Lee, **Chanjun Park**, Kuekyeng Kim, Heuiseok Lim
Applied Sciences 11.14 (2021) p. 6624. Multidisciplinary Digital Publishing Institute, 2021

Neural Spelling Correction: Translating Incorrect sentences to Correct sentences for Multimedia
 Chanjun Park, Kuekyeng Kim, YeongWook Yang, Minho Kang, HeuiSeok Lim
Multimedia Tools and Applications (2020) pp. 1–18. Springer, 2020

Ancient Korean Neural Machine Translation
 Chanjun Park, Chanhee Lee, YeongWook Yang, Heuiseok Lim
IEEE Access 8 (2020) pp. 116617–116625. 2020

Comparison of the evaluation metrics for Neural Grammatical Error Correction with Overcorrection
 Chanjun Park, YeongWook Yang, Chanhee Lee, Heuiseok Lim
IEEE Access 8 (2020) pp. 106264–106272. 2020

Decoding Strategies for Improving Low-Resource Machine Translation
 Chanjun Park, Yeongwook Yang, Kinam Park, Heuiseok Lim
Electronics 9.10 (2020) p. 1562. Multidisciplinary Digital Publishing Institute, 2020

INTERNATIONAL CONFERENCE

Prompt-based Learning for English-German Critical Translation Error Detection
Sugyeong Eo, **Chanjun Park**, Heuiseok Lim
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2022), 2022

A Dataset for Korean Graph-to-Text Generation
Dahyun Jung, Lee. Seungyoon, SeungJun Lee, Sugyeong Eo, **Chanjun Park**, Danielle Aiyanyo Imatitikua
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2022), 2022

Masked language modeling-based Korean Data Augmentation Techniques Using Label Correction
Myunghoon Kang, Jungseob Lee, SeungJun Lee, Hyeonseok Moon, **Chanjun Park**, Aram So
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2022), 2022

Automatic Generation of Learning Data for Korean Speech Recognition Post-Processor
Seomin Koo, **Chanjun Park**, Hyeonseok Moon, Jaehyung Seo, Sugyeong Eo, Heuiseok Lim
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2022), 2022

Fortune Telling via Deep Learning based Generation Model
Hyeonseok Moon, Jungseob Lee, Jaehyung Seo, Sugyeong Eo, **Chanjun Park**, Jeongbae Park
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2022), 2022

Efficient Way for Constructing Hate Speech-Counter Narrative Dataset
Lee. Seungyoon, Suhyune Son, Dahyun Jung, **Chanjun Park**, Yuna Hur
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2022), 2022

A Study on Jeju Dialect ASR processor using BackTranScription
 Chanjun Park, Jaehyung Seo, Seolhwa Lee, Heonseok Moon, Sugyeong Eo, Yoonna Jang, HeuiSeok Lim
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

Cross-lingual Zero-shot Transfer for Quality Estimation
Sugyeong Eo, **Chanjun Park**, Jaehyung Seo, Heonseok Moon, HeuiSeok Lim
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

Proposal of Automatic Essay Scoring Method Using 4-level Natural Language Analysis
Yujin Kim, **Chanjun Park**, Seolhwa Lee, HeuiSeok Lim
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

Error Type Categorization Criteria for Korean Spelling Correction
Seonmin Koo, **Chanjun Park**, HeuiSeok Lim
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

A High-level Machine Reading Comprehension Model
Jeongwoo Lee, Hyeonseok Moon, **Chanjun Park**, HeuiSeok Lim
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

Comparative study of Korean speech recognition based on SpecAugment and Kaldi
Seounghoon Lee, **Chanjun Park**, Jaehyung Seo, Gyeongmin Kim, HeuiSeok Lim
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

Context Detector: Persona Based Natural Conversation using Conversational Agent
Seungjun Lee, Yoonna Jang, **Chanjun Park**, HeuiSeok Lim
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

Domain Specialized Automatic Post Editing System
Heonseok Moon, **Chanjun Park**, Jaehyung Seo, Sugyeong Eo, HeuiSeok Lim
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

Korean Generative Commonsense Reasoning
Jaehyung Seo, **Chanjun Park**, Heonseok Moon, Sugyeong Eo, HeuiSeok Lim
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

AI for Construction: Development of communication platform for construction field using Natural Language Processing
Midan Shim, **Chanjun Park**, Yuna Hur, HeuiSeok Lim
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

Categorization of Common Error Types in the Off-the-shelf ASR systems for Korean
Junyoung Son, **Chanjun Park**, Jaehyung Seo, HeuiSeok Lim
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

A Comparative Study on Korean Relation Extraction with entity position information
Suhyune Son, Yuna Hur, Jungwoo Lim, Midan Shim, **Chanjun Park**, HeuiSeok Lim
International Conference on Interdisciplinary Research on Computer Science, Psychology, and Education (ICICPE 2021), 2021

PicTalky: Deep learning-based speech therapy platform for developmental disabilities
Chanjun Park, Yanghee Kim, Yoonna Jang, Umadevi G.R, HeuiSeok Lim
The International Conference on Big data, IoT, and Cloud Computing, 2020

Domain-specialize Neural Machine Translation Methodology
Chanjun Park, HeuiSeok Lim
International conference on Interdisciplinary research on Computer Science, Psychology, and Education, 2020

Toward High Quality Parallel Corpus Using Monolingual Corpus
Chanjun Park, Youngdae Oh, Jongkeun Choi, Dongpil Kim, HeuiSeok Lim
The 10th International Conference on Convergence Technology, 2020

Data Augmentation Method for Korean Neural Machine Translation
Chanjun Park, Kinam Park, HeuiSeok Lim
INTERNATIONAL CONFERENCE ON INFORMATION, SYSTEM AND CONVERGENCE APPLICATIONS, 2020

Self- Supervised Korean Spelling Correction via Denoising Transformer
Chanjun Park, Sungjin Park, HeuiSeok Lim
INTERNATIONAL CONFERENCE ON INFORMATION, SYSTEM AND CONVERGENCE APPLICATIONS, 2020

Can artificial intelligence translate the Annals of the Joseon Dynasty ?
Chanjun Park, Sungjin Park, Kinam Park, Jaechoon Jo, HeuiSeok Lim
The 10th International Conference on Convergence Technology, 2020

Design Neural Machine Translation Model Combining External Symbolic Knowledge in translation task
Sugyeong Eo, **Chanjun Park**, HeuiSeok Lim
International conference on Interdisciplinary research on Computer Science, Psychology, and Education, 2020

Free Talking NAO Robot for Children
Chanjun Park, Jaekue Choi, Sungjin Park, Yanghee Kim, HeuiSeok Lim
International conference on Interdisciplinary research on Computer Science, Psychology, and Education, 2019

Improved Machine Translation Performance Using Two Stage Subword Tokenization
Chanjun Park, Sora Choi, HeuiSeok Lim
International conference on Interdisciplinary research on Computer Science, Psychology, and Education, 2019

Quality before Quantity: Improved Machine Translation performance using parallel corpus filtering
Chanjun Park, Seunggyu Han, HeuiSeok Lim
International conference on Interdisciplinary research on Computer Science, Psychology, and Education, 2019

Improved Machine Translation Performance Using Relative Ratio of Original and Synthetic Corpus
Chanjun Park, Jang Mook Kang
International conference on Interdisciplinary research on Computer Science, Psychology, and Education, 2019

Domestic Journal

Policy-based performance comparison study of Real-time Simultaneous Translation
Jungseob Lee, Hyeonseok Moon, Jaehyung **Chanjun Park** Seo, Sugyeong Eo, Seungjun Lee, Seonmin Koo, Heuiseok Lim
Journal of the Korea Convergence Society 13.3 (2022) pp. 43–54. Korea Convergence Society, 2022

Error Analysis of Recent Conversational Agent-based Commercialization Education Platform
Seungjun Lee, **Chanjun Park**, Jaehyung Seo, Heuiseok Lim
Journal of the Korea Convergence Society 13.3 (2022) pp. 11–22. Korea Convergence Society, 2022

Deep Learning based Korean Dialect Machine Translation Research Considering Linguistics Features and Service
Sangbeom Lim, **Chanjun Park**, Yeongwook Yang
Journal of the Korea Convergence Society 13.2 (2022) pp. 21–29. Korea Convergence Society, 2022

Korean and Multilingual Language Models Study for Cross-Lingual Post-Training (XPT)
Suhyune Son, **Chanjun Park**, Jungseob Lee, Midan Shim, Chanhee Lee, Heuiseok Lim
Journal of the Korea Convergence Society 13.3 (2022) pp. 77–89. Korea Convergence Society, 2022

A study on performance improvement considering the balance between corpus in Neural Machine Translation
 Chanjun Park, Kinam Park, Sugyeong Eo, Hyeonseok Moon, HeuiSeok Lim
Journal of the Korea Convergence Society 12.5 (2021) pp. 23–29. Korea Convergence Society, 2021

A Study on Verification of Back TranScription(BTS)-based Data Construction
 Chanjun Park, Jaehyung Seo, Seolhwa Lee, Hyeonseok Moon, Sugyeong Eo, Heuiseok Lim
Journal of the Korea Convergence Society 12.11 (2021) pp. 109–117. Korea Convergence Society, 2021

Research on Subword Tokenization of Korean Neural Machine Translation and Proposal for Tokenization Method to Separate Jong-sung from Syllables
Sugyeong Eo, **Chanjun Park**, Hyeonseok Moon, HeuiSeok Lim
Journal of the Korea Convergence Society 12.3 (2021) pp. 1–7. Korea Convergence Society, 2021

Research on Recent Quality Estimation
Sugyeong Eo, **Chanjun Park**, Hyeonseok Moon, Jaehyung Seo, HeuiSeok Lim
Journal of the Korea Convergence Society 12.7 (2021) pp. 37–44. Korea Convergence Society, 2021

Study on Zero-shot based Quality Estimation
Sugyeong Eo, **Chanjun Park**, Jaehyung Seo, Hyeonseok Moon, Heuiseok Lim
Journal of the Korea Convergence Society 12.11 (2021) pp. 35–43. Korea Convergence Society, 2021

Classification and analysis of error types for deep learning-based Korean spelling correction
Seonmin Koo, **Chanjun Park**, Aram So, Heuiseok Lim
Journal of the Korea Convergence Society 12.12 (2021) pp. 65–74. Korea Convergence Society, 2021

Empirical study on BlenderBot 2.0's errors analysis in terms of model, data and dialogue
Jungseob Lee, Suhyune Son, Midan Shim, Yujin Kim, **Chanjun Park**, Aram So, Jeongbae Park, Heuiseok Lim
Journal of the Korea Convergence Society 12.12 (2021) pp. 93–106. Korea Convergence Society, 2021

Filter-mBART Based Neural Machine Translation Using Parallel Corpus Filtering
Hyeonseok Moon, **Chanjun Park**, Sugyeong Eo, JeongBae Park, HeuiSeok Lim
Journal of the Korea Convergence Society 12.5 (2021) pp. 1–7. Korea Convergence Society, 2021

Recent Automatic Post Editing Research
Hyeonseok Moon, **Chanjun Park**, Sugyeong Eo, Jaehyung Seo, HeuiSeok Lim
Journal of Digital Convergence 19.7 (2021) pp. 199–208. Journal of Digital Convergence, 2021

The Verification of the Transfer Learning-based Automatic Post Editing Model
Hyeonseok Moon, **Chanjun Park**, Sugyeong Eo, Jaehyung Seo, Heuiseok Lim
Journal of the Korea Convergence Society 12.10 (2021) pp. 27–35. Korea Convergence Society, 2021

Study on Decoding Strategies in Neural Machine Translation
Jaehyung Seo, **Chanjun Park**, Sugyeong Eo, Hyeonseok Moon, Heuiseok Lim
Journal of the Korea Convergence Society 12.11 (2021) pp. 69–80. Korea Convergence Society, 2021

Cross-Validated Ensemble Methods in Natural Language Inference
Kisu Yang, Taesun Whang, Dongsuk Oh, **Chanjun Park**, HeuiSeok Lim
Journal of KIISE 48.2 (2021) pp. 154–159. Korean Institute of Information Scientists and Engineers (KIISE), 2021

Neural Machine translation specialized for Coronavirus Disease-19 (COVID-19)
 Chanjun Park, Kyeong-Hee Kim, Ki-Nam Park, Heui-Seok Lim
Journal of the Korea Convergence Society 11.9 (2020) pp. 7–13. Korea Convergence Society, 2020

An AI Service to support communication and language learning for people with developmental disability
 Chanjun Park, Yanghee Kim, Yoonna Jang, Umadevi G.R, HeuiSeok Lim
Journal of the Korea Convergence Society 11.6 (2020) pp. 51–57. 2020

Automatic Post Editing Research
 Chanjun Park, HeuiSeok Lim
Journal of the Korea Convergence Society 11.5 (2020) pp. 1–8. 2020

A Study on the Performance Improvement of Machine Translation Using Public Korean-English Parallel Corpus
Chanjun Park, HeuiSeok Lim
Journal of Digital Convergence 18.6 (2020) pp. 271–277. 2020

Domestic Conference

BackTranScription (BTS)-based Jeju Automatic Speech Recognition Post-processor Research
Chanjun Park, Jaehyung Seo, Seolhwa Lee, Heonseok Moon, Sugyeong Eo, Yoonna Jang, HeuiSeok Lim
The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Word-level Korean-English Quality Estimation
Sugyeong Eo, **Chanjun Park**, Jaehyung Seo, Heonseok Moon, HeuiSeok Lim
The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Persona-based Korean Conversational Model
Yoonna Jang, Jungwoo Lim, Yuna Hur, Kisu Yang, **Chanjun Park**, Jaehyung Seo, Seungjun Lee, HeuiSeok Lim
The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Proposal of Automated Essay Scoring Method based on Deep-Learning
Yujin Kim, **Chanjun Park**, Seolhwa Lee, HeuiSeok Lim
The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Error Type Categorization for deep learning-based Korean Spelling Correction
Seonmin Koo, **Chanjun Park**, Heuiseok Lim
Korea Software Congress 2018 (2021) pp. 1279–1281. 2021

Model Training and Data Augmentation Schemes For the High-level Machine Reading Comprehension
Jeongwoo Lee, Hyeonseok Moon, **Chanjun Park**, HeuiSeok Lim
The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Comparative study of Korean speech recognition based on SpecAugment and Kaldi
Seounghoon Lee, **Chanjun Park**, Jaehyung Seo, Gyeongmin Kim, HeuiSeok Lim
The 33rd Annual Conference on Human Cognitive Language Technology, 2021

PEEP-Talk: Deep Learning-based English Education Platform for Personalized Foreign Language Learning (Best Paper Award)
Seungjun Lee, Yoonna Jang, **Chanjun Park**, Minwoo Kim, Bernardo N Yahya, HeuiSeok Lim
The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Deep Learning based Korean Dialect Machine Translation Research
Sangbeom Lim, **Chanjun Park**, Jaechoon Jo, Yeongwook Yang
The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Verification of the Domain Specialized Automatic Post Editing Model
Heonseok Moon, **Chanjun Park**, Jaehyung Seo, Sugyeong Eo, HeuiSeok Lim
The 33rd Annual Conference on Human Cognitive Language Technology, 2021

KommonGen: A Dataset for Korean Generative Commonsense Reasoning Evaluation (Best Paper Award)
Jaehyung Seo, **Chanjun Park**, Heonseok Moon, Sugyeong Eo, Myunghoon Kang, Seounghoon Lee, HeuiSeok Lim
The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Con-Talky: Information Extraction and Visualization Platform for Communication of Construction Industry
Midan Shim, **Chanjun Park**, Yuna Hur, HeuiSeok Lim
The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Categorization and Analysis of Error Types in the Korean Speech Recognition System (Best Paper Award)
Junyoung Son, **Chanjun Park**, Jaehyung Seo, HeuiSeok Lim
The 33rd Annual Conference on Human Cognitive Language Technology, 2021

A Comparative Study on Korean Relation Extraction with entity position information
Suhyune Son, Yuna Hur, Jungwoo Lim, Midan Shim, **Chanjun Park**, HeuiSeok Lim
The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Attention Patterns and Semantics of Korean Language Models
Kisu Yang, Yoonna Jang, Jingwoo Lim, **Chanjun Park**, Hwanseok Jang, HeuiSeok Lim
The 33rd Annual Conference on Human Cognitive Language Technology, 2021

Quality, not Quantity? : Effect of parallel corpus quantity and quality on Neural Machine Translation
Chanjun Park, Yeonsu Lee, Chanhee Lee, HeuiSeok Lim
The 32st Annual Conference on Human Cognitive Language Technology, 2020

Alleviation of Overcorrection Problem in Neural Korean Spelling Correction
Chanjun Park, Yeonsu Lee, Kisu Yang, HeuiSeok Lim
The 32st Annual Conference on Human Cognitive Language Technology, 2020

Design Neural Machine Translation Model Combining External Symbolic Knowledge
Sugyeong Eo, **Chanjun Park**, HeuiSeok Lim
The 32st Annual Conference on Human Cognitive Language Technology, 2020

Cross-Lingual Transfer of Pretrained Transformers to Resource-Scarce Languages (Best Paper Award)
Chanhee Lee, **Chanjun Park**, Gyeongmin Kim, Dongsuk Oh, HeuiSeok Lim
The 32st Annual Conference on Human Cognitive Language Technology, 2020

MMA: Multi-modal Message Aggregation for Korean VQA
Sungjin Park, **Chanjun Park**, Jaehyung Seo, HeuiSeok Lim
The 32st Annual Conference on Human Cognitive Language Technology, 2020

Korean Spell Correction based on Denoising Transformer
Chanjun Park, Sol Jeong, kisu Yang, Sumi Lee, Jaechoon Joe, HeuiSeok Lim
The 31st Annual Conference on Human Cognitive Language Technology, 2019

Parallel Corpus Filtering and Korean-Optimized Subword Tokenization for Machine Translation

Chanjun Park, Gyeongmin Kim, HeuiSeok Lim
The 31st Annual Conference on Human Cognitive Language Technology, 2019

Optimization of Data Augmentation Techniques in Neural Machine Translation
Chanjun Park, Kuekyeng Kim, HeuiSeok Lim
The 31st Annual Conference on Human Cognitive Language Technology, 2019

Comparative Study of Sentiment Analysis Model based on Korean Linguistic Chracteristics
Gyeongmin Kim, **Chanjun Park**, HeuiSeok Lim
The 31st Annual Conference on Human Cognitive Language Technology, 2019

Cross-Validated Ensemble Methods in Natural Language Inference (Best Paper Award)
Kisu Yang, Taesun Whang, Dongsuk Oh, **Chanjun Park**, HeuiSeok Lim
The 31st Annual Conference on Human Cognitive Language Technology, 2019

Korean Spacing Module using Eojeol dictionary and Morpheme dictionary
Chanjun Park, Jin-hyuk Choi, Pummo Ryu
Korea Software Congress 2018, 2018

Knowledge-enhancing Real-time Lecture interpreter service Development
Chanjun Park, Minho Kang, Byunggun Park, Suntae Kim, Myeongjin Hwang, Dongpil Kim, Young-kil Kim
Korea Software Congress 2018, 2018

Voice recognition performance improvement using TTS system in address recognition system
Chanjun Park, Suntae Kim, Minho Kang, Myeongjin Hwang, Byunggun Park, Yeonsu Kim
Korea Software Congress 2018, 2018

Improved speech recognition performance in business meeting environments using domain-specific method
Chanjun Park, Suntae Kim, Minho Kang, Byunggun Park, Myeongjin Hwang, Yeonsu Kim
Korea Software Congress 2018, 2018

Spam/Ham Classification using Ensemble Technique of Machine Learning Algorithms
Chanjun Park, Pummo Ryu
Korea Computer Congress 2018, 2018

Two-Stage Korea Compound Noun Decomposer
Chanjun Park, Pummo Ryu
The 30st Annual Conference on Human Cognitive Language Technology, 2018

Dictionary based Compound Noun Decomposer using Resource extension
Chanjun Park, Hyejin Won, Pummo Ryu
Korea Computer Congress 2018, 2018

Book chapters

Natural Langugae Processing Bible
Heuiseok Lim, **Korea University NLPAI Lab**
Human Science, https://www.aladin.co.kr/shop/wproduct.aspx?partner=rss&ISBN=K412637214, 2020

Extracurricular Activity

Operate Naver's natural language processing blog
South Korea

Blogger
2016.Dec-Present

- URL: `https://blog.naver.com/bcj1210`
- Linguistics for natural language processing
- Natural Language Processing (NLP)
- Machine Translation for Everyone
- Business, strategy, and planning for everyone
- Natural language processing with NLTK
- Software engineering
- Today's CCM

OpenNMT Forum Members
South Korea

Members
2019.July-2019.July

- Active as OpenNMT Forum Members
- Develop and share OpenNMT Pytorch, Tensorflow, Library Tutorial

ETRI's machine translation quality evaluator
South Korea

Estimator
2019.October-2019.December

- Quality evaluation of machine translation hosted by ETRI

Completion of basic curriculum for natural language processing and language intelligence
South Korea

Student
2019.July-2019.July

- Korea University Human-Inspired AI & Computing Research Center

Completed the natural language processing tutorial (2016-2019)
South Korea

Student
2016 - 2019

- Special Interest Group of Human and Cognitive Language Technology

Reporter, Korea Electronics and Telecommunications Research Institute (ETRI)
South Korea

Reporter
2016.Feb-2018.Feb

- Served as 3rd and 4th reporters at the Korea Electronics and Telecommunications Research Institute

Flitto Supporters
South Korea

Supporters
2017.Dec-2017.Dec

- The first plito supporters

Journalist of the Ministry of Science and ICT
South Korea

Reporter
2016.Feb-2017.Feb

- 8 articles published
- Visit Exobrain Quiz Show
- URL: `https://blog.naver.com/bcj1210/221147196551`

Planning a video lecture for Natural Language Processing Basic at BUFS
South Korea

Planner
2016.July-2016.July

- URL: `https://bit.ly/2NmFJV1`

BIT Computer Advanced Course Completion
South Korea

Student
2016.January-2016.August

- Bet Advanced Course Completion and Bet President Award
- Bit project level 2 license
- Development of intelligent English learning APP

BIT Computer Short Course Completion
South Korea

Student
2015.June-2015.August

- Short-term course completion (C, JAVA, Data Structure)

Extracurricular Activity