#### NATURAL LANGUAGE PROCESSING & ARTIFICIAL INTELLIGENCE LAB · KOREA UNIVERSITY

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□ (+82) 10-2580-9066 | **b**cj1210@naver.com | **□** parkchanjun | **□** bcj1210

## Research Interests\_

I am a MS/Ph.D student in the Department of Computer Science and Engineering at Korea University. My advisor is prof. Heuiseok Lim, and I am part of the Natural Language Processing & Artificial Intelligence Lab.

- · Natural Language Processing
- · Deep Learning
- Machine Translation
- · Grammar Error Correction
- Simultaneous Speech Translation
- Neural Symbolic Computing

## Education

Korea University Seoul, South Korea

M.S/Ph.D in Computer Science and Engineering, GPA: 4.5 / 4.5

Sep. 2019 - Current

- · Advisor: Heuiseok Lim
- Natural Language Processing & Artificial Intelligence Lab

## **Busan University of Foreign Studies(BUFS)**

Busan, South Korea

B.S. in Natural Language Processing & Creative Convergence, GPA: 4.2 / 4.5

Mar. 2015 - Exp. Aug. 2018

- Advisor: Pummo Ryu
- Full Scholarship

## Honors & Awards

	2020.10	Best Paper Award, 2020, HCLT 2020	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, HCLT 2019	South Korea
	2019.10	1st Place Microsoft AI Accessibility Hackathon in Korea (Team Lead), Microsoft	South Korea
	2019.03	<b>Graduate School Associate Scholarship,</b> Sungkyunkwan University	South Korea
	2018.10	Next Generation Information Processing NLP Competition 2018: Participation Award, Next-generation	South Korea
		information computing technology development business	
	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 Publications**

## Neural Spelling Correction: Translating Incorrect sentences to Correct sentences for Multimedia

Chanjun Park, Kuekyeng Kim, Yeong Wook Yang, Minho Kang, Heui Seok 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

# Selected Research Experience \_\_\_\_\_

CHANJUN. PARK · CURRICULUM VITAE

#### **COVID-19 Machine Translation Platform**

Seoul, South Korea

RESEARCHER IN KOREA UNIV May. 2020. - Present

- · Neural Machine translation specialized for COVID-19 domain
- Skills: Neural Machine Translation, Pytorch, Python

#### **Domain Specialized Neural Machine Translation (Security)**

Seoul, South Korea

May. 2020. - November. 2020

RESEARCHER IN KOREA UNIV

- Research on Neural Machine Translation specialized for security domain
- Skills: Neural Machine Translation, Pytorch, Python
- · 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 Al-based translation technology research

#### A Neural-Symbolic Model for Knowledge Acquisition and Inference Techniques

Seoul, South Korea

RESEARCHER IN KORFA UNIV

April 2020 - Present

- Neural-Symbolic Model Research and Development
- Skills: Neural Symbolic Computing, Knowledge base, Pytorch, Python
- Supported by Ministry of Science, ICT and Future Planning

#### **Ancient Korean Neural Machine Translation**

Seoul, South Korea

March. 2020. - Present

RESEARCHER IN KOREA UNIV

- Ancient Korean Translation Research
- Skills: Pytorch, Python, REST API, Flask, Neural Machine Translation
- Demo: http://nlplab.iptime.org:32242/
- Publication of research paper in IEEE Access(SCIE): https://ieeexplore.ieee.org/document/9125904/

#### Neural Symbolic - Neural Theorem Provers(NTP)

Seoul, South Korea

RESEARCHER IN KOREA UNIV

RESEARCHER IN KOREA UNIV

January. 2020. - March.2020

- Neural Theorem Provers Research based on Neural Symbolic
- · Skills: WordNet, Python, REST API, Flask, Neural Symbolic
- Demo: http://nlplab.iptime.org:32245/

#### **Deep Learning based Korean Spelling Correction**

Seoul South Korea

June. 2019. - April.2020

- Development of Korean spelling corrector based on deep learning
- Skills: Pytorch, Python, REST API, Flask, Neural Machine Translation
- Demo: http://nlplab.iptime.org:32288/
- Publication of research paper in multimedia tools and applications(SCIE): https://link.springer.com/article/10.1007/ s11042-020-09148-2

#### **Deep Learning based Grammar Error Correction**

Seoul, South Korea

RESEARCHER IN KOREA UNIV

June. 2019. - Present

- · Deep learning based English grammar corrector development
- Skills: Pytorch, Python, REST API, Flask, Neural Machine Translation
- Demo: http://nlplab.iptime.org:32292/
- Publication of research paper in IEEE Access(SCIE): https://ieeexplore.ieee.org/document/9102992

#### **Multilingual Neural Machine Translation**

Seoul, South Korea

RESEARCHER IN KOREA UNIV

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
- Skills: Pytorch, Python, REST API, Flask, Neural Machine Translation
- Demo: http://nlplab.iptime.org:32296/
- 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

## Development of English Free-talking system and grammar correction feedback system using NAO robot

Seoul, South Korea

RESEARCHER IN KOREA UNIV

April. 2019. - Dec.2019

- · Team Leader
- Demo: https://www.youtube.com/watch?v=pSBXouica-A
- · Skills: Pytorch, Python, Google Cloud Platform, REST API, Nao Toolkit

## An AI Service to support communication and language learning for people with developmental disability

Seoul, South Korea

RESEARCHER IN KOREA UNIV June. 2019. - March.2020

- 1st Place Microsoft AI Accessibility Hackathon in Korea (Team Lead)
- Design of augmentative alternative communication (AAC) software for children with developmental disabilities
- Award: https://bit.ly/2vPaZ91
- Demo: http://nlplab.iptime.org:32257/

#### Research and development of human-inspired multiple intelligence

Seoul, South Korea

September. 2019. - Present

RESEARCHER IN KOREA UNIV

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

#### Next-generation information computing technology development business

Seoul, South Korea

September. 2019. - Present

- RESEARCHER IN KOREA UNIV
- Development of Core Application Techniques for Korean Intelligent Systems
- · Research and development of Korean natural language processing core technology

## Core technology development of the real-time simultaneous speech translation based on knowledge enhancement

Seoul, South Korea

RESEARCHER IN SYSTRAN 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

## Neural Machine Translation service for SK Telecom's in-house education program

Seoul. South Korea

RESEARCHER IN SYSTRAN 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**

Seoul, South Korea

RESEARCHER IN SYSTRAN 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

## Speech recognition transcription tool development

Seoul, South Korea

January. 2019. - July. 2019

RESEARCHER IN SYSTRAN

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

## **CJ Logistics Speech Recognition Agent**

Seoul, South Korea

RESEARCHER IN SYSTRAN

RESEARCHER IN SYSTRAN

RESEARCHER IN SYSTRAN

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

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

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

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Seoul, South Korea

## **Customer-specific recognizer service platform service planning**

RESEARCHER IN SYSTRAN

- Customer-specific recognizer service app service design
- Establish platform service strategies such as B2B and B2C
- Skills: Mockup, Marketing, Strategic Planning, Technology management

## **Speech Recognition Research**

RESEARCHER IN SYSTRAN

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

#### **Neural Machine Translation Research**

RESEARCHER IN SYSTRAN

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

# Development of multilingual word translation service based on Korean semantics analysis for multicultural family

RESEARCHER IN BUFS

- 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)

# Establishment of Gold Standard language resource bank for Korean machine learning and evaluation (Next-generation information computing technology development business)

RESEARCHER IN BUFS

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

## Local industry development project in connection with public institutions

RESEARCHER IN BUFS

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

## **Basic Research on Semantic Frame Generation for Short Questions (ExoBrain)**

RESEARCHER IN BUFS

· Exobrain Project

Seoul, South Korea

June. 2018. - April.2018

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

Seoul. South Korea

Aug. 2018. - July. 2019

Seoul, South Korea

Sep. 2016. - June. 2018

Seoul, South Korea

Sep. 2017. - June. 2018

Seoul, South Korea

Sep. 2016. - Aug. 2017

Seoul, South Korea

Oct. 2015. - Feb. 2016

## **Professional Experience**

## SYSTRAN, Automatic Speech Recognition(ASR) Team

Seoul, South Korea

RESEARCH ENGINEER Sep. 2018 - July. 2019

- · 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
- · laas 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, Automatic Speech Recognition(ASR) Team

Seoul, South Korea

RESEARCH INTERN

June. 2018 - August. 2018

- 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** JAVA, Python, C / C++

Machine Learning & Deep Learning Pytorch, Keras, Tensorflow, OpenNMT, Kaldi

**Natural Language Processing** Machine Translation, Speech Recognition, Neuro-Symbolic Computing

Full Stack Html, CSS, Javascipt, Java FX, Oracle, MySQL, Spring Boot, VertX, AWS

**Strategy & Planning** API Platform Service, Platform Service Planning, Gravitee IO, Paas, Iaas, Q.A, Q.C, Mockup, Swagger

**Etc** MS Office, Redmine, Linux, Docker, Web RTC, Latex

**Language Skills** Korean, English, Japanese, Thai, Myanmar

## Patents \_\_\_\_\_

2019.12	Device and method for correcting Korean spelling, Apply for a patent	South Korea
2020.09	APPARATUS AND METHOD FOR OUTPUTTING IMAGE CORRESPONDING TO LANGUAGE, Apply for a patent	South Korea
2020.09	METHOD OF TRANSLATING ANCIENT KOREAN USING MACHINE TRANSLATION, Apply for a patent	South Korea
2020.09	Correction performance evaluation metrics of neural network machine translation and method of	South Korea
2020.09	constructing the same, Apply for a patent	
2020.09	METHOD OF BUILDING TRAINING DATA OF 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,	South Korea
2020.02	https://www.youtube.com/watch?v=R16dG_4cnFk	
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,	South Korea
2020.03	http://nlplab.iptime.org:32257/	
2020.05	COVID-19 Machine Translation Platform, http://nlplab.iptime.org:32250/	South Korea
2020.07	Ancient Korean Translation & Machine Reading Comprehension with NAO,	South Korea
2020.01	https://www.youtube.com/watch?v=nXBZe-t9a-4&t=8s	

# Invited Talk & Teaching Experience \_\_\_\_\_

Korea University South Korea

HEAD TEACHING ASSISTANT

Autumn 2020

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

Korea University South Korea

TEACHING ASSISTANT

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

Presenter March. 2020

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

NC SOFT South Korea

PRESENTER February. 2020

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

Dongguk University South Korea

Presenter 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
- $\bullet \ \ Lecture \ materials: \ https://github.com/Parkchanjum/Dongguk\_AI\_NLP\_MachineTranslation$

SKC South Korea

INSTRUCTOR 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

Presenter 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**

#### INTERNATIONAL JOURNAL

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

#### 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

#### 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

#### 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

#### Neural Machine translation specialized for Coronavirus Disease-19(COVID-19)

Chanjun Park, Kyeonghee Kim, Kinam Park, HeuiSeok Lim

Journal of the Korea Convergence Society 00.0 (2020) pp. 00-00. 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

## 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**

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 2016.Dec-Present

**BLOGGER** 

• 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

MEMBERS

**OpenNMT Forum Members** 

South Korea

2019.July-2019.July

• Active as OpenNMT Forum Members

• Develop and share OpenNMT Pytorch, Tensorflow, Library Tutorial

South Korea

2019.October-2019.December

ETRI's machine translation quality evaluator

• Quality evaluation of machine translation hosted by ETRI

Completion of basic curriculum for natural language processing and language

South Korea

STUDENT

intelligence

• Korea University Human-Inspired AI & Computing Research Center

2019.July-2019.July

Completed the natural language processing tutorial (2016-2019)

Completed the natural language processing tutorial (2016-2019
STUDENT

South Korea 2016 - 2019

• Special Interest Group of Human and Cognitive Language Technology

Reporter, Korea Electronics and Telecommunications Research Institute (ETRI)

South Korea 2016.Feb-2018.Feb

South Korea

REPORTER

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

Flitto Supporters

Supporters 2017.Dec-2017.Dec

· The first plito supporters

2011.DCC 2011.DCC

Journalist of the Ministry of Science and ICT

South Korea 2016.Feb-2017.Feb

REPORTER

PLANNER

STUDENT

- 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

• URL: https://bit.ly/2NmFJV1

2016.July-2016.July

**BIT Computer Advanced Course Completion** 

South Korea

2016. January - 2016. August

• Bet Advanced Course Completion and Bet President Award

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

- Bit project level 2 license
- Development of intelligent English learning APP

BIT Computer Short Course Completion South Korea

STUDENT

2015.June-2015.August

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## Courses related to natural language processing and computer engineering

STUDENT

- Computer Programming Basics 1 (C Language) (A+)
- Linguistics basics (A+)
- Basic language processing (A+)
- Computer and Information Society (A+)
- Introduction to computers (A+)
- Computer architecture (A+)
- Data structure (A)
- Concepts of programming language (A+)
- Operating system (A+)
- Database (A+)
- Natural language processing (BUFS) (A+)
- Advanced computer programming (System Programming, Machine Learning) (A+)
- Software Engineering (A+)
- Natural Language processing project (A+)
- Information extraction and text mining (A+)
- Machine learning application (A)
- Cognitive basis of linguistics (A+)
- Natural language processing (KU) (A+)