

Seokhwan Kim

CONTACT INFORMATION	Google Cloud AI 1175 Borregas Ave Sunnyvale, CA 94089, USA	<i>Mobile:</i> +1 (669) 204-2805 <i>E-mail:</i> seokhwankim@google.com <i>WWW:</i> http://seokhwankim.com/
RESEARCH INTERESTS	Natural Language Processing, Spoken Dialogue Systems, Natural Language Understanding, Large Language Model, LLM Agents	
EDUCATION	Pohang University of Science and Technology (POSTECH) , Pohang, Korea <i>Ph.D., Computer Science and Engineering</i> <i>February 2012</i> Dissertation Topic: “Cross-Lingual Weakly-Supervised Learning of Semantic Relations” Advisor: Gary Geunbae Lee Committee: Jong-hyeok Lee, Seung-jin Choi, Seung-won Hwang, Sung-Hyon Myaeng <i>B.S., Computer Science and Engineering</i> <i>August 2005</i>	
RESEARCH EXPERIENCE	Google Cloud AI , Sunnyvale, CA, USA <i>Staff Software Engineer</i> <i>June 2024 -</i> Amazon Alexa AI , Sunnyvale, CA, USA <i>Principal Applied Scientist</i> <i>October 2021 - May 2024</i> <i>Senior Applied Scientist</i> <i>June 2019 - October 2021</i> Adobe Research , San Jose, CA, USA <i>NLP Research Scientist</i> <i>July 2017 - May 2019</i> Institute for Infocomm Research (I2R) , Singapore <i>Scientist</i> <i>January 2012 - July 2017</i> Max Planck Institute for Informatics (MPI-INF) , Saarbrucken, Germany <i>Research Intern</i> <i>April 2011 - August 2011</i> <i>Advisor: Prof. Gerhard Weikum</i> Pohang University of Science and Technology (POSTECH) , Pohang, Korea <i>Research Assistant</i> <i>September 2005 - December 2011</i> <i>Advisor: Prof. Gary Geunbae Lee</i>	
TEACHING EXPERIENCE	Pohang University of Science and Technology (POSTECH) , Pohang, Korea <i>Teaching Assistant</i> <i>Spring 2010</i> CS101, Introduction to Computing <i>Teaching Assistant</i> <i>Spring 2006</i> CS421, Database System	
PROFESSIONAL EXPERIENCE	SIGDIAL 2025 <i>Program Chair</i> <i>2025</i>	

COLING 2022	<i>Virtual Infrastructure Co-Chair</i>	2022
IEEE SLT 2022	<i>Challenge & Demonstration Co-Chair</i>	2022
NSF Proposal Review Panel	<i>Panelist</i>	2022
IEEE Signal Processing Society	<i>Speech and Language Processing Technical Committee (SLTC)</i>	2021
Special Interest Group on Discourse and Dialogue (SIGdial)	<i>Board Member</i>	2021
The Eighth Dialog System Technology Challenge (DSTC8)	<i>Challenge Chair</i>	2019
Dialog System Technology Challenges (DSTC6-9)	<i>Organizing Committee</i>	2017
Dialog State Tracking Challenges (DSTC4-5)	<i>Organizing Committee</i>	2015
The Ninth Asia Information Retrieval Societies Conference (AIRS 2013)	<i>Local Organizing Committee Co-chair</i>	2013
ACL Special Workshop: Rediscovering 50 Years of Discoveries	<i>Publicity Committee Member</i>	2012
AAAI, ACL, ACM-SIGIR, AI Magazine, CSL, CoNLL, EACL, EMNLP, ICLR, IEEE ASRU, IEEE ICASSP, IEEE SLT, IEEE/ACM TASLP, IJCAI, IJCNLP, IWSDS, Interspeech, NAACL-HLT, NeurIPS	<i>Reviewer</i>	

TALKS

Tutorials

Seokhwan Kim. **"How Robust R U?": Evaluating Task-Oriented Dialogue Systems on Spoken Conversations.** Invited Talk @ Hugging Face Audio Transformers Course Launch Event, 2023-06-14.

Seokhwan Kim. **Summary of the Eighth Dialog System Technology Challenge (DSTC8).** Invited Talk @ The Third Workshop on Reasoning and Learning for Human-Machine Dialogues (DEEP-DIAL 2020), 2020-02-08.

Seokhwan Kim. **Just ask: An Interactive Learning Framework for Vision and Language Navigation.** Invited Talk @ AI Assistant Summit (RE•WORK), 2020-01-30.

Rafael E. Banchs, Seokhwan Kim, Luis Fernando D'Haro, Andreea I. Niculescu. **Natural Language in Human-Robot Interaction.** Tutorial @ The 4th International Conference on Human-Agent Interaction (HAI 2016), 2016-10-04.

International Journals

Koichiro Yoshino, Yun-Nung Chen, Paul Crook, Satwik Kottur, Jinchao Li, Behnam Hedayatnia, Seungwhan Moon, Zhengcong Fei, Zekang Li, Jinchao Zhang, Yang Feng, Jie Zhou, Seokhwan Kim, Yang Liu, Di Jin, Alexandros Papangelis, Karthik Gopalakrishnan, Dilek Hakkani-Tur, Babak Damavandi, Alborz Geramifard, Chiori Hori, Ankit Shah, Chen Zhang, Haizhou Li, João Sedoc, Luis F. D'Haro, Rafael Banchs, Alexander Rudnicky. **Overview of the Tenth Dialog System Technology Challenge: DSTC10.** IEEE/ACM Transactions on Audio, Speech, and Language Processing, None (None), Jul 2023.

Di Jin, Shuyang Gao, Seokhwan Kim, Yang Liu, Dilek Hakkani-Tur. **Towards Textual Out-of-Domain Detection Without In-Domain Labels.** IEEE/ACM Transactions on Audio, Speech, and Language Processing, 30 (1386-1395), Mar 2022.

Seokhwan Kim, Hannes Schulz, Chulaka Gunasekara, Chiori Hori, Abhinav Rastogi, Luis Fernando D'Haro. **Editorial: Special Issue on the Eighth Dialog System Technology Challenge.** IEEE/ACM Transactions on Audio, Speech, and Language Processing, 29 (2434-2436), Aug 2021.

Seokhwan Kim, Michel Galley, Chulaka Gunasekara, Sungjin Lee, Adam Atkinson, Baolin Peng, Hannes Schulz, Jianfeng Gao, Jinchao Li, Mahmoud Adada, Minlie Huang, Luis Lastras, Jonathan K. Kummerfeld, Walter S. Lasecki, Chiori Hori, Anoop Cherian, Tim K. Marks, Abhinav Rastogi, Xiaoxue Zang, Srinivas Sunkara, Raghav Gupta. **Overview of the Eighth Dialog System Technology Challenge: DSTC8.** IEEE/ACM Transactions on Audio, Speech, and Language Processing, 29 (2529-2540), May 2021.

Chiori Hori, Julien Perez, Ryuichi Higashinaka, Takaaki Hori, Y-Lan Boureau, Michimasa Inaba, Yuiko Tsunomori, Tetsuro Takahashi, Koichiro Yoshino, Seokhwan Kim. **Overview of the Sixth Dialog System Technology Challenge: DSTC6.** Computer Speech and Language, 55 (1-25), May 2019.

Seonghan Ryu, Seokhwan Kim, Junhwi Choi, Hwanjo Yu, Gary Geunbae Lee. **Neural sentence embedding using only in-domain sentences for out-of-domain sentence detection in dialog systems.** Pattern Recognition Letters, 88 (26-32), Mar 2017.

Seokhwan Kim, Minwoo Jeong, Jonghoon Lee, Gary Geunbae Lee. **Cross-Lingual Annotation Projection for Weakly-Supervised Relation Extraction.** ACM Transactions on Asian Language Information Processing, 13:1 (3), Feb 2014.

Seokhwan Kim, Minwoo Jeong, Gary Geunbae Lee. **A Local Tree Alignment Approach to Relation Extraction of Multiple Arguments.** Information Processing and Management, 47:4 (593-605), Jul 2011.

Cheongjae Lee, Sangkeun Jung, Seokhwan Kim, Gary Geunbae Lee. **Example-based dialog modeling for practical multi-domain dialog system.** Speech Communications, 51:5 (466-484), May 2009.

Sangkeun Jung, Cheongjae Lee, Seokhwan Kim, Gary Geunbae Lee. **DialogStudio: A workbench for data-driven spoken dialog system development and management.** Speech Communications, 50:8-9 (683-697), , Aug-Sep 2008.

International Conferences

Jing Yang Lee, Seokhwan Kim, Kartik Mehta, Jiun-Yu Kao, Yu-Hsiang Lin, Arpit Gupta. **Redefining Proactivity for Information Seeking Dialogue.** Proceedings of the Second Workshop on Social Influence in Conversations (SICon 2024), Miami, Nov 2024.

Taha Aksu, Devamanyu Hazarika, Shikib Mehri, Seokhwan Kim, Dilek Hakkani-Tur, Yang Liu, Mahdi Namazifar. **CESAR: Automatic Induction of Compositional Instructions for Multi-turn Dialogs.** Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023), Singapore, Dec 2023.

Vishakh Padmakumar, Behnam Hedayatnia, Di Jin, Patrick Lange, Seokhwan Kim, Nanyun Peng, Yang Liu, Dilek Hakkani-Tur. **Investigating the Representation of Open Domain Dialogue Context for Transformer Models.** Proceedings of the 24th Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2023), Prague, Sep 2023.

Chao Zhao, Spandana Gella, Seokhwan Kim, Di Jin, Devamanyu Hazarika, Alexandros Papangelis, Behnam Hedayatnia, Mahdi Namazifar, Yang Liu, Dilek Hakkani-Tur. **”What do others think?”: Task-Oriented Conversational Modeling with Subjective Knowledge.** Proceedings of the 24th Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2023), Prague, Sep 2023.

Run Chen, Yang Liu, Alexandros Papangelis, Seokhwan Kim, Julia Hirschberg, Dilek Hakkani-Tur. **Identifying Entrainment in Task-oriented Conversations.** Proceedings of the 2023 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2023), Rhodes Island, Jun 2023.

Yen Ting Lin, Alexandros Papangelis, Seokhwan Kim, Sungjin Lee, Devamanyu Hazarika, Mahdi Namazifar, Di Jin, Yang Liu, Dilek Hakkani-Tur. **Selective In-Context Data Augmentation for Intent Detection using Pointwise V-Information.** Proceedings of the 17th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2023), Dubrovnik, May 2023.

Maximillian Chen, Alexandros Papangelis, Chenyang Tao, Seokhwan Kim, Andy Rosenbaum, Yang Liu, Zhou Yu, Dilek Hakkani-Tur. **PLACES: Prompting Language Models for Social Conversation Synthesis.** Proceedings of the 17th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2023), Dubrovnik, May 2023. (Findings)

Yen-Ting Lin, Alexandros Papangelis, Seokhwan Kim, Dilek Hakkani-Tur. **Knowledge-Grounded Conversational Data Augmentation with Generative Conversational Networks.** Proceedings of the 23rd Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2022), Edinburgh, Sep 2022.

Pei Zhou, Karthik Gopalakrishnan, Behnam Hedayatnia, Seokhwan Kim, Jay Pujara, Xiang Ren, Yang Liu, Dilek Hakkani-Tur. **Think Before You Speak: Explicitly Generating Implicit Commonsense Knowledge for Response Generation.** Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (ACL 2022), Vol. 1, pp 1237-1252, Dublin, May 2022.

Seokhwan Kim, Yang Liu, Di Jin, Alexandros Papangelis, Behnam Hedayatnia, Karthik Gopalakrishnan, Dilek Hakkani-Tur. **Knowledge-grounded Task-oriented Dialogue Modeling on Spoken Conversations Track at DSTC10.** Proceedings of the AACL-22 Workshop on Dialog System Technology Challenges (DSTC10), Virtual, Feb 2022.

Seokhwan Kim, Yang Liu, Di Jin, Alexandros Papangelis, Behnam Hedayatnia, Karthik Gopalakr-

ishnan, Dilek Hakkani-Tur. ”How robust r u?”: Evaluating Task-Oriented Dialogue Systems on Spoken Conversations. Proceedings of the 2021 IEEE Automatic Speech Recognition and Understanding Workshop (ASRU 2021), Virtual, Dec 2021.

Di Jin, Shuyang Gao, Seokhwan Kim, Yang Liu, Dilek Hakkani-Tur. Towards Zero and Few-shot Knowledge-seeking Turn Detection in Task-orientated Dialogue Systems. Proceedings of the Efficient Natural Language and Speech Processing NeurIPS Workshop (ENLSP 2021), Virtual, Dec 2021.

Sashank Santhanam, Behnam Hedayatnia, Spandana Gella, Aishwarya Padmakumar, Seokhwan Kim, Yang Liu, Dilek Hakkani-Tur. Rome was built in 1776: A case study on factual correctness in knowledge-grounded response generation. Proceedings of the 3rd Workshop on NLP for Conversational AI (NLP4ConvAI), Punta Cana, Nov 2021.

Di Jin, Seokhwan Kim, Dilek Hakkani-Tur. Can I Be of Further Assistance? Using Unstructured Knowledge Access to Improve Task-oriented Conversational Modeling. Proceedings of the 1st DialDoc Workshop at ACL-IJCNLP (DialDoc), Virtual, Aug 2021.

Alexandros Papangelis, Karthik Gopalakrishnan, Aishwarya Padmakumar, Seokhwan Kim, Gokhan Tur, Dilek Hakkani-Tur. Generative Conversational Networks. Proceedings of the 22nd Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2021), Singapore, Jul 2021.

Pei Zhou, Karthik Gopalakrishnan, Behnam Hedayatnia, Seokhwan Kim, Jay Pujara, Xiang Ren, Yang Liu, Dilek Hakkani-Tur. Commonsense-Focused Dialogues for Response Generation: An Empirical Study. Proceedings of the 22nd Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2021), Singapore, Jul 2021.

Seokhwan Kim, Mihail Eric, Behnam Hedayatnia, Karthik Gopalakrishnan, Yang Liu, Chao-Wei Huang, Dilek Hakkani-Tur. Beyond Domain APIs: Task-oriented Conversational Modeling with Unstructured Knowledge Access Track in DSTC9. Proceedings of the AAAI-21 Workshop on Dialog System Technology Challenges (DSTC9), Virtual, Feb 2021.

Behnam Hedayatnia, Karthik Gopalakrishnan, Seokhwan Kim, Yang Liu, Mihail Eric, Dilek Hakkani-Tur. Policy-Driven Neural Response Generation for Knowledge-Grounded Dialog Systems. Proceedings of the 13th International Conference on Natural Language Generation (INLG 2020), Dublin, Dec 2020.

Wentian Zhao, Seokhwan Kim, Ning Xu, Hailin Jin. Video Question Answering on Screenshot Tutorials. Proceedings of the 29th International Joint Conference on Artificial Intelligence and the 17th Pacific Rim International Conference on Artificial Intelligence (IJCAI-PRICAI 2020), pp 1061-1068, Yokohama, Jul 2020. (12.6% acceptance)

Seokhwan Kim, Mihail Eric, Karthik Gopalakrishnan, Behnam Hedayatnia, Yang Liu, Dilek Hakkani-Tur. Beyond Domain APIs: Task-oriented Conversational Modeling with Unstructured Knowledge Access. Proceedings of the 21st Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2020), pp 278-289, Boise, Jul 2020.

Kunpeng Li, Chen Fang, Zhaowen Wang, Seokhwan Kim, Hailin Jin, Yun Fu. Screenshot Tutorial Video Understanding. Proceedings of the 2020 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2020), pp 12526-12535, Seattle, Jun 2020. (22.1% acceptance)

Anthony Colas, Seokhwan Kim, Franck Dernoncourt, Siddhesh Gupte, Zhe Wang, Doo Soon Kim.

TutorialVQA: Question Answering Dataset for Tutorial Videos. Proceedings of the 12th International Conference on Language Resources and Evaluation (LREC 2020), pp 5450–5455, Marseille, May 2020.

Ta-Chung Chi, Mihail Eric, Seokhwan Kim, Minmin Shen, Dilek Hakkani-tur. **Just ask: An Interactive Learning Framework for Vision and Language Navigation.** Proceedings of the Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI-20), New York, Feb 2020. (20.6% acceptance)

Seokhwan Kim, Michel Galley, Chulaka Gunasekara, Sungjin Lee, Adam Atkinson, Baolin Peng, Hannes Schulz, Jianfeng Gao, Jinchao Li, Mahmoud Adada, Minlie Huang, Luis Lastras, Jonathan K. Kummerfeld, Walter S. Lasecki, Chiori Hori, Anoop Cherian, Tim K. Marks, Abhinav Rastogi, Xiaoxue Zang, Srinivas Sunkara, Raghav Gupta. **The Eighth Dialog System Technology Challenge.** Proceedings of the 3rd Conversational AI workshop: Today’s Practice and Tomorrow’s Potential (ConvAI 2019), Vancouver, Dec 2019.

Logan Lebanoff, John Muchovej, Franck Dernoncourt, Doo Soon Kim, Seokhwan Kim, Walter Chang, Fei Liu. **Analyzing Sentence Fusion in Abstractive Summarization.** Proceedings of the EMNLP 2019 Workshop on New Frontiers in Summarization (NewSum), Hong Kong, Nov 2019.

Amirreza Shirani, Franck Dernoncourt, Paul Asente, Nedim Lipka, Seokhwan Kim, Jose Echevarria, Thamar Solorio . **Learning Emphasis Selection for Written Text in Visual Media from Crowd-Sourced Label Distributions.** Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (ACL 2019), pp 1167-1172, Florence, Jul 2019. (18.2% acceptance)

Logan Lebanoff, Kaiqiang Song, Franck Dernoncourt, Doo Soon Kim, Seokhwan Kim, Walter Chang, Fei Liu. **Scoring Sentence Singletons and Pairs for Abstractive Summarization.** Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (ACL 2019), pp 2175-2189, Florence, Jul 2019. (25.7% acceptance)

Seokhwan Kim. **Deep Recurrent Neural Networks with Layer-wise Multi-head Attentions for Punctuation Restoration.** Proceedings of the 44th International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2019), pp 7280-7284, Brighton, May 2019.

Seokhwan Kim. **Dynamic Memory Networks for Dialogue Topic Tracking.** Proceedings of the AAAI-19 Workshop on Dialog System Technology Challenges (DSTC7), Honolulu, Jan 2019.

Arman Cohan, Franck Dernoncourt, Doo Soon Kim, Trung Bui, Seokhwan Kim, Walter Chang, Nazli Goharian. **A Discourse-Aware Attention Model for Abstractive Summarization of Long Documents.** Proceedings of the 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL HLT 2018), pp 615-621, New Orleans, Jun 2018. (29.4% acceptance)

Andrei Dulceanu, Thang Le Dinh, Walter Chang, Trung Bui, Doo Soon Kim, Manh Chien Vu, Seokhwan Kim. **PhotoshopQuiA: A Corpus of Non-Factoid Questions and Answers for Why-Question Answering.** Proceedings of the 11th International Conference on Language Resources and Evaluation (LREC 2018), pp 2763-2770, Miyazaki, May 2018.

Zhe Wang, Kingsley Kuan, Mathieu Ravaut, Gaurav Manek, Sibong Song, Yuan Fang, Seokhwan Kim, Nancy F. Chen, Luis Fernando D’Haro, Anh Tuan Luu, Hongyuan Zhu, Zeng Zeng, Ngai Man Cheung, Georgios Piliouras, Jie Lin, Vijay Chandrasekhar. **Truly Multi-modal**

YouTube-8M Video Classification with Video, Audio, and Text (Team DL2.0, ranked at 22/650). Proceedings of the CVPR 2017 Workshop on YouTube-8M Large-Scale Video Understanding (YouTube-8M), Honolulu, Jul 2017.

Seokhwan Kim, Luis Fernando D'Haro, Rafael E. Banchs, Jason D. Williams, Matthew Henderson, Koichiro Yoshino. **The Fifth Dialog State Tracking Challenge.** Proceedings of the 2016 IEEE Spoken Language Technology Workshop (SLT 2016), pp 511-517, San Diego, Dec 2016.

Seokhwan Kim, Rafael E. Banchs, Haizhou Li. **Exploring Convolutional and Recurrent Neural Networks in Sequential Labelling for Dialogue Topic Tracking.** Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (ACL 2016), pp 963-973, Berlin, Aug 2016. (28.0% acceptance)

Seokhwan Kim, Luis Fernando D'Haro, Rafael E. Banchs, Jason D. Williams, Matthew Henderson. **The Fourth Dialog State Tracking Challenge.** Proceedings of the 7th International Workshop on Spoken Dialogue Systems (IWSDS 2016), Saarisekka, Jan 2016.

Ridong Jiang, Rafael Banchs, Seokhwan Kim, Luis Fernando D'Haro, Andreea Niculescu, Kheng Hui Yeo. **Configuration of Dialogue Agent with Multiple Knowledge Sources.** Proceedings of the Asia-Pacific Signal and Information Processing Association Annual Summit and Conference 2015 (APSIPA ASC 2015), Hong Kong, Dec 2015.

Luis Fernando D'Haro, Seokhwan Kim, Rafael E. Banchs. **A Robust Spoken Q&A System with Scarce In-Domain Resources.** Proceedings of the Asia-Pacific Signal and Information Processing Association Annual Summit and Conference 2015 (APSIPA ASC 2015), Hong Kong, Dec 2015.

Ridong Jiang, Seokhwan Kim, Rafael E. Banchs, Haizhou Li. **Towards Improving the Performance of Vector Space Model for Chinese Frequently Asked Question.** Proceedings of the 19th International Conference on Asian Language Processing (IALP 2015), Suzhou, Oct 2015.

Seokhwan Kim, Rafael E. Banchs, Haizhou Li. **Wikification of Concept Mentions within Spoken Dialogues Using Domain Constraints from Wikipedia.** Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing (EMNLP 2015), pp 2225-2229, Lisbon, Sep 2015. (24.0% acceptance)

Seokhwan Kim, Rafael E. Banchs, Haizhou Li. **Towards Improving Dialogue Topic Tracking Performances with Wikification of Concept Mentions.** Proceedings of the 16th Annual SIGdial Meeting on Discourse and Dialogue (SIGDIAL 2015), pp 124-128, Prague, Sep 2015.

Luis Fernando D'Haro, Seokhwan Kim, Rafael E. Banchs. **Conversational Agent and Management Tools for Conference and Tourism Domain.** Proceedings of the 16th Annual Conference of the International Speech Communication Association (Interspeech 2015), Dresden, Sep 2015. (Show and Tell)

Luis Fernando D'Haro, Seokhwan Kim, Kheng Hui Yeo, Ridong Jiang, Andreea I. Niculescu, Rafael E. Banchs, Haizhou Li. **CLARA: a multifunctional virtual agent for conference support and touristic information.** Proceedings of the 6th International Workshop on Spoken Dialog System (IWSDS 2015), Busan, Jan 2015. (Demo)

Kyusong Lee, Seonghan Ryu, Paul Hongsuck Seo, Seokhwan Kim, Gary Geunbae Lee. **Grammatical Error Correction Based on Learner Comprehension Model in Oral Conversation.** Proceedings of the 2014 IEEE Spoken Language Technology Workshop (SLT 2014), South Lake Tahoe, Dec 2014.

Seokhwan Kim, Rafael E. Banchs. **R-cube: a dialogue agent for Restaurant Recommendation and Reservation.** Proceedings of the Asia-Pacific Signal and Information Processing Association Annual Summit and Conference 2014 (APSIPA ASC 2014), Siem Reap, Dec 2014.

Rafael E. Banchs, Seokhwan Kim. **An empirical evaluation of an IR-based strategy for chat-oriented dialogue systems.** Proceedings of the Asia-Pacific Signal and Information Processing Association Annual Summit and Conference 2014 (APSIPA ASC 2014), Siem Reap, Dec 2014.

Andreea Niculescu, Kheng Hui Yeo, Luis Fernando D'haro, Seokhwan Kim, Ridong Jiang, Rafael Banchs. **Design and Evaluation of a Conversational Agent for the Touristic Domain.** Proceedings of the Asia-Pacific Signal and Information Processing Association Annual Summit and Conference 2014 (APSIPA ASC 2014), Siem Reap, Dec 2014.

Rafael E. Banchs, Seokhwan Kim. **Spoken Dialogue System for Restaurant Recommendation and Reservation.** Proceedings of the 15th Annual Conference of the International Speech Communication Association (Interspeech 2014), pp 1488-1489, Singapore, Sep 2014. (Show and Tell)

Andreea Niculescu, Seokhwan Kim, Kheng Hui Yeo, Arthur Niswar, Ridong Jiang, Rafael E. Banchs. **SARA - Singapore's Automated Responsive Assistant for the Touristic Domain.** Proceedings of the 15th Annual Conference of the International Speech Communication Association (Interspeech 2014), pp 2138-2139, Singapore, Sep 2014. (Show and Tell)

Andreea Niculescu, Rafael E. Banchs, Seokhwan Kim, Kheng Hui Yeo, Arthur Niswar, Ridong Jiang. **SARA - Singapore's Automated Responsive Assistant - A Multimodal Dialogue System for Touristic Information.** Proceedings of the 11th International Conference on Mobile Web Information Systems (MobiWIS 2014), pp 153-164, Barcelona, Aug 2014.

Seokhwan Kim, Rafael E. Banchs, Haizhou Li. **A Composite Kernel Approach for Dialog Topic Tracking with Structured Domain Knowledge from Wikipedia.** Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics (ACL 2014), Vol. 2, pp 19-23, Baltimore, Jun 2014. (25.0% acceptance)

Seokhwan Kim, Rafael E. Banchs. **Sequential Labeling for Tracking Dynamic Dialog States.** Proceedings of the 15th Annual SIGdial Meeting on Discourse and Dialogue (SIGDIAL 2014), pp 332-336, Philadelphia, Jun 2014.

Arthur Niswar, Rafael E. Banchs, Ridong Jiang, Seokhwan Kim. **AIDA: An Avatar-Supported Multimodal Dialogue System.** Proceedings of the 27th International Conference on Computer Animation and Social Agents (CASA 2014), Houston, May 2014.

Seokhwan Kim, Rafael E. Banchs, Haizhou Li. **Wikipedia-based Kernels for Dialogue Topic Tracking.** Proceedings of the 39th International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2014), pp 131-135, Florence, May 2014.

Ridong Jiang, Rafael E. Banchs, Seokhwan Kim, Kheng Hui Yeo, Arthur Niswar, Haizhou Li. **Web-based Multimodal Multi-domain Spoken Dialogue System.** Proceedings of the 5th International Workshop on Spoken Dialog Systems (IWSDS 2014), Napa, Jan 2014.

Rafael E. Banchs, Ridong Jiang, Seokhwan Kim, Arthur Niswar, Kheng Hui Yeo. **AIDA: Artificial Intelligent Dialogue Agent.** Proceedings of the 14th Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2013), pp 145-147, Metz, Aug 2013. (Demo)

Seokhwan Kim. **A Graph-based Cross-lingual Projection Approach for Spoken Language Understanding Portability to a New Language.** Proceedings of the 38th International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2013), pp 8332-8336, Vancouver, May 2013.

Injae Lee, Seokhwan Kim, Kyungduk Kim, Donghyeon Lee, Junhwi Choi, Seonghan Ryu, Geunbae Lee. **A Two-Step Approach for Efficient Domain Selection in Multi-Domain Dialog Systems.** Proceedings of the 4th International Workshop on Spoken Dialog System (IWSDS 2012), pp 105-111, Ermenonville, Nov 2012.

Seokhwan Kim, Gary Geunbae Lee. **A Graph-based Cross-lingual Projection Approach for Weakly Supervised Relation Extraction.** Proceedings of the 50th Annual Meeting of the Association for Computational Linguistics (ACL 2012), Vol. 2, pp 48-53, Jeju, Jul 2012. (20.0% acceptance)

Hongsuck Seo, Jonghoon Lee, Seokhwan Kim, Kyusong Lee, Sechun Kang and Gary Geunbae Lee. **A Meta Learning Approach to Grammatical Error Correction.** Proceedings of the 50th Annual Meeting of the Association for Computational Linguistics (ACL 2012), Vol. 2, pp 328-332, Jeju, Jul 2012. (20.0% acceptance)

Junhwi Choi, Kyungduk Kim, Sungjin Lee, Seokhwan Kim, Donghyeon Lee, Injae Lee, Gary Geunbae Lee. **Seamless error correction interface for voice word processor.** Proceedings of the 37th International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2012), pp 4973-4976, Kyoto, Mar 2012.

Junhwi Choi, Kyungduk Kim, Seokhwan Kim, Donghyeon Lee, Injae Lee, Gary Geunbae Lee. **Multi-domain spoken dialog system for information access in mobile environment.** Proceedings of the IEEE Automatic Speech Recognition and Understanding Workshop (IEEE ASRU 2011), Hawaii, Dec 2011. (Demo)

Seokhwan Kim, Minwoo Jeong, Jonghoon Lee, Gary Geunbae Lee. **A Cross-lingual Annotation Projection-based Self-supervision Approach for Open Information Extraction.** Proceedings of the 5th international joint conference on natural language processing (IJCNLP 2011), pp 741-748, Chiang Mai, Nov 2011. (27.0% acceptance)

Donghyeon Lee, Cheongjae Lee, Minwoo Jeong, Kyungduk Kim, Seokhwan Kim, Junhwi Choi, Gary Geunbae Lee. **Web-search enhanced contents retrieval for information access dialog system.** Proceedings of the 12th Annual Conference of the International Speech Communication Association (Interspeech 2011), pp 1297-1300, Florence, Aug 2011.

Seokhwan Kim, Minwoo Jeong, Jonghoon Lee, Gary Geunbae Lee. **A Cross-lingual Annotation Projection Approach for Relation Detection.** Proceedings of the 23rd International Conference on Computational Linguistics (COLING 2010), pp 564-571, Beijing, Aug 2010. (19.0% acceptance)

Seokhwan Kim, Minwoo Jeong, Gary Geunbae Lee. **A Local Tree Alignment-based Soft Pattern Matching Approach for Information Extraction.** Proceedings of the North American Chapter of the Association for Computational Linguistics/Human Language Technology (NAACL HLT 2009), pp 169-172, Colorado, May 2009.

Seokhwan Kim, Minwoo Jeong, Gary Geunbae Lee. **An Alignment-based Pattern Representation Model for Information Extraction.** Proceedings of the 31st Annual International ACM SIGIR Conference (SIGIR '08), pp 875-876, Singapore, Jul 2008.

Seokhwan Kim, Minwoo Jeong, Gary Geunbae Lee. Kwangil Ko, Zino Lee. An alignment-based approach to semi-supervised relation extraction including multiple arguments. Proceedings of the fourth Asian Information Retrieval Symposium (AIRS 2008), Harbin, Jan 2008.

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Seokhwan Kim, Minwoo Jeong, Gary Geunbae Lee. A semi-supervised method for efficient construction of statistical spoken language understanding resources. Proceedings of the 8th Annual Conference of the International Speech Communication Association (Interspeech 2007), pp 2797-2800, Antwerp, Aug 2007.

Seokhwan Kim, Cheongjae Lee, Sangkeun Jung, Gary Geunbae Lee. A spoken dialog system for electronic program guide information access. Proceedings of The 16th IEEE International Symposium on Robot and Human Interactive Communication (IEEE RO-MAN 2007), pp 178-181, Jeju, Aug 2007.

Seokhwan Kim, Yu Song, Kyungduk Kim, Jeong-Won Cha, Gary Geunbae Lee. MMR-based active machine learning for Bio named entity recognition. Proceedings of the Human Language Technology/North American Chapter of the Association for Computational Linguistics (HLT-NAACL 2006), pp 69-72, New York, Jun 2006.

Patents

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SKILLS

Programming Languages: Python, C++, Java

Machine Learning Toolkits: PyTorch, TensorFlow, scikit-learn, SVM-Light, CRFsuite

NLP and IR Toolkits: NLTK, spaCy, Stanford CoreNLP, Lucene

Databases: MySQL, SQLite, MongoDB, Neo4j

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Available upon request