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## Current position

*Professor*, Ibaraki University, Computer and Information Sciences

## Personal

Born on August 28, 1961.

Japanese.

## Education

B.S. Computer Science, Tokyo Institute of Technology, 1985.

M.S. Computer Science, Tokyo Institute of Technology, 1987.

Ph.D. Computer Science, Tokyo Institute of Technology, 1997.

## Employment

Fuji Xerox 1987–1988.

Panasonic 1988–1993.

Ibaraki University, 1993–.

## Recent Publications & talks

### *Books*

新納浩幸 (2020), PyTorch による物体検出, Tokyo: Ohmsha, ISBN-13 978-4274225932.

### *Talks*

Hiroyuki Shinnou (2020), Use of BERT for NLP tasks by HuggingFace's transformers, keynote speech of ROCLING-2020.

*Journal Articles*

鈴木類, 古宮嘉那子, 浅原正幸, 佐々木稔, 新納浩幸 (2019), "概念辞書の類義語と分散表現を利用した教師なし all-words WSD", 自然言語処理, Vol.26, No.2, pp.361-379.

Kanako Komiya, Minoru Sasaki, Hiroyuki Shinnou, Manabu Okumura (2018), "Domain Adaptation using Word Embeddings for Word Sense Disambiguation", 自然言語処理, Vol.25, No.4 pp.463-480.

Kanako Komiya, Masaya Suzuki, Tomoya Iwakura, Minoru Sasaki, Hiroyuki Shinnou (2018), "Comparison of Methods to Annotate Named Entity Corpora", Transactions on Asian and Low-Resource Language Information Processing, ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP), Volume 17 Issue 4, Article No.34.

*Proceedings*

Jing Bai, Rui Cao, Wen Ma and Hiroyuki Shinnou (2020), "Construction of Domain-Specific DistilBERT Model by Using Fine-Tuning", TAAI-2020 (to appear).

Hirotaaka Tanaka, Rui Cao, Jing Bai, Wen Ma and Hiroyuki Shinnou (2020), "Construction of document feature vectors using BERT", TAAI-2020 (to appear).

Yanghuizi Ou, Rui Cao, Jing Bai, Wen Ma and Hiroyuki Shinnou (2020), "Analysis of Polysemy using Variance Values for Word Embeddings by BERT", TAAI-2020 (to appear).

Yi Zhao, Rui Cao, Jing Bai, Wen Ma and Hiroyuki Shinnou (2020). "Determining the Logical Relation between Two Sentences by Using the Masked Language Model of BERT", TAAI-2020 (to appear).

Teruo Hirabayashi, Kanako Komiya, Masayuki Asahara and Hiroyuki Shinnou (2020), "Composing Word Vectors for Japanese Compound Words Using Bilingual Word Embeddings", PACLIC-2020.

Kanako Komiya, Daiki Yaginuma, Masayuki Asahara and Hiroyuki Shinnou (2020), "Generation and Evaluation of Concept Embeddings Via Fine-Tuning Using Automatically Tagged Corpus", PACLIC-2020.

Naoki Shibayama, Rui Cao, Jing Bai, Wen Ma and Hiroyuki Shinnou (2020). "Evaluation of BERT Models by Using Sentence Clustering", PACLIC-2020.

Teruo Hirabayashi, Kanako Komiya, Masayuki Asahara and Hiroyuki Shinnou (2020), "Automatic Creation of Correspondence Table of Meaning Tags from Two Dictionaries in One Language Using Bilingual Word Embedding", BUCC 2020, pp. 22-28.

Shin Fujii, Rui Cao, Jing Bai, Wen Ma and Hiroyuki Shinnou (2019), "Detecting Missing Translations in Neural Machine Translation Using Information Quantity in Sentences", TAAI-2019, DOI: 10.1109/TAAI48200.2019.8959850.

Jing Bai, Rui Cao, Wen Ma and Hiroyuki Shinnou (2019), "Combination of Feature-based and Instance-based methods for Domain Adaptation in Sentiment Classification", TAAI-2019, DOI: 10.1109/TAAI48200.2019.8959865.

Jing Bai, Hirotaaka Tanaka, Rui Cao, Wen Ma and Hiroyuki Shinnou (2019), "Unsupervised Domain Adaptation for Sentimental Classification by Word Embeddings on the Lower Layer of BERT", TAAI-2019, DOI: 10.1109/TAAI48200.2019.8959881.

Hirotaaka Tanaka, Hiroyuki Shinnou, Rui Cao, Jing Bai and Wen Ma (2019), "Document Classification by Word Embeddings of BERT", PACLING-2019, Paper #11.

Rui Cao, Jing Bai, Wen Ma and Hiroyuki Shinnou (2019), "Semi-supervised learning for all-words WSD using self-learning and fine-tuning", *PACLIC-33*, pp.383–388.

Kanako Komiya, Takumi Seitou, Minoru Sasaki and Hiroyuki Shinnou (2019), "Composing Word Vectors for Japanese Compound Words Using Dependency Relations", *CICLING 2019*.

Hiroyuki Shinnou, Xinyu Zhao and Kanako Komiya (2018), "Domain Adaptation Using a Combination of Multiple Embeddings", *PACLIC 2018*.

Masaya Suzuki, Kanako Komiya, Minoru Sasaki and Hiroyuki Shinnou (2018), "Fine-tuning for Named Entity Recognition Using Part-of-Speech Tagging", *PACLIC-2018*.

Jing Bai, Hiroyuki Shinnou and Kanako Komiya (2018), "Domain Adaptation for Sentiment Analysis using Keywords in the Target Domain as the Learning Weight", *PACLIC 2018*.

Aya Tanabe, Kanako Komiya, Masayuki Asahara, Minoru Sasaki and Hiroyuki Shinnou (2018), "Detecting Unknown Word Senses in Contemporary Japanese Dictionary from Corpus of Historical Japanese", *JADH 2018*.

Kanako Komiya and Hiroyuki Shinnou (2018), "Investigating Effective Parameters for Fine-tuning of Word Embeddings Using Only a Small Corpus", *DeepLo 2018, Workshop of ACL 2018*, pp. 60-67.

Rui Suzuki, Kanako Komiya, Masayuki Asahara, Minoru Sasaki and Hiroyuki Shinnou (2018), "All-words Word Sense Disambiguation Using Concept Embeddings", *LREC 2018*.

Kanako Komiya, Minoru Sasaki and Hiroyuki Shinnou (2018), "Distributed Representation vs. Context Vector: Comparison of Features for Japanese Onomatopoeia Classification", *CICLING 2018*.