

Curriculum Vitae

Taiki Miyanishi

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Research Interests

Information Retrieval, Natural Language Processing

Education

Ph.D., Graduate School of System Informatics, March 2014
Kobe University, Hyogo, Japan
Thesis: *Time-Aware Information Retrieval in Social Networks*
Advisor: Kuniaki Uehara
Committee Members: ZhiWei Luo, Yasuo Ariki, Kazuhiro Seki

M.S., Graduate School of Engineering, March 2011
Kobe University, Hyogo, Japan

B.S., Department of Computer Science and Systems Engineering, March 2009
Kobe University, Hyogo, Japan

Employment

Researcher in Advanced Telecommunications and Research Institute International
April 2014 - Present

Research Intern in Microsoft Research Asia
August - December 2012

Research Fellow of the Japan Society for the Promotion of Science
April 2012 - March 2014

Research Assistant in Graduate School of System Informatics at Kobe University
April 2011 - March 2012

Teaching Assistant in Graduate School of Engineering at Kobe University
April 2009 - March 2011

Grants Received

The Telecommunications Advancement Foundation Grants for Researchers Attending International Conferences, November 2013

Japan Society for the Promotion of Science Grant-in-Aid for JSPS Fellows, April 2012 - March 2014

Support Center for Advanced Telecommunications Technology Research, April 2011 - March 2012

NEC C&C Foundation Grants for Researchers Attending International Conferences, November 2011

Academic Honors

Excellent Paper Award, WebDB Forum, 2013

Student Encouragement Award, WebDB Forum, 2013

Student Encouragement Award, IPSJ IFAT, 2013

Best Presentation Award at the Master's Thesis Defence, Kobe University, 2011

Excellent Student at the Department of Computer Science and Systems Engineering, Kobe University, 2009

Invited Talks

Taiki Miyanishi. Gesture-Based First-Person Vision Search for Augmenting Human Memory, Konan University, July 2015.

Publications

Thesis

Taiki Miyanishi. Time-Aware Information Retrieval in Social Networks, Ph.D. Dissertation, Kobe University, Hyogo, Japan, March 2014.

Journal Articles

1. Taiki Miyanishi, Kazuhiro Seki, and Kuniaki Uehara. Concept Tracking for Microblog Search. *IPSJ Transactions on Databases*, Vol.7, No.2, pp.1–10, June 2014. (in Japanese)
2. Taiki Miyanishi, Kazuhiro Seki, and Kuniaki Uehara. Improving Pseudo-Relevance Feedback by Relevance Feedback using Micro-Document Selection. *IPSJ Journal*, Vol.55, No.5, pp.1585–1594, May 2014. (in Japanese)
3. Taiki Miyanishi, Kazuhiro Seki, and Kuniaki Uehara. Synthesizing Temporal and Atemporal Query Expansion for Microblog Search. *IPSJ Journal*. Vol.54, No.4, pp.1655–1666, 2013. (in Japanese)
4. Taiki Miyanishi, Kazuhiro Seki, and Kuniaki Uehara. Object Ranking in Evolutional Networks via Link Prediction. *Japanese Society for Artificial Intelligence*. Vol.27, No.3, pp.223–234, 2012. (in Japanese)
5. Taiki Miyanishi, Kazuhiro Seki, and Kuniaki Uehara. Hypothesis Ranking Based on Semantic Event Similarities. *IPSJ Transactions on Bioinformatics*. Vol.4, pp.9–20, May 2011.

Conference Papers

6. Taiki Miyanishi, Kazuhiro Seki, and Kuniaki Uehara. Time-Aware Latent Concept Expansion for Microblog Search. In *Proceedings of the 8th International AAAI Conference on Weblogs and Social Media (ICWSM 2014)*, pp.366–375, June 2014.
7. Sayaka Kitaguchi, Taiki Miyanishi, Kazuhiro Seki, and Kuniaki Uehara. Interactive Disaster Information Search System for Microblog by Minimal User Feedback. In *Proceedings of the 9th Asia Information Retrieval Societies Conference (AIRS 2013)*. pp.476-487, December 2013.
8. Taiki Miyanishi, Kazuhiro Seki, and Kuniaki Uehara. Improving Pseudo-Relevance Feedback via Tweet Selection. In *Proceedings of the 22nd ACM International Conference on Information and Knowledge Management (CIKM 2013)*. pp.439-448, October 2013.
9. Taiki Miyanishi and Tetsuya Sakai. Time-aware Structured Query Suggestion. In *Proceedings of the 35th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2013)*. pp.809-812, July 2013. (short paper)
10. Taiki Miyanishi, Kazuhiro Seki, and Kuniaki Uehara. Combining Recency and Topic-Dependent Temporal Variation for Microblog Search. In *Proceedings of the 35th European Conference on Information Retrieval (ECIR 2013)*. pp.331-343, March 2013.
11. Taiki Miyanishi, Kazuhiro Seki, and Kuniaki Uehara. Hypothesis Generation and Ranking Based on Event Similarities. In *Proceedings of the 25th Annual ACM Symposium On Applied Computing (SAC 2010)*, pp.1552-1558, March 2010.

Unrefereed Conference Papers

12. Taiki Miyanishi, Sayaka Kitaguchi, Kazuhiro Seki, and Kuniaki Uehara. TREC 2013 Microblog Track Experiments at Kobe University. In *Proceedings of the 22nd Text Retrieval Conference (TREC 2013)*, November 2013.
13. Taiki Miyanishi, Kazuhiro Seki, and Kuniaki Uehara. TREC 2012 Microblog Track Experiments at Kobe University. In *Proceedings of the 21st Text Retrieval Conference (TREC 2012)*, November 2012. **Fourth place among 33 groups in the Realtime adhoc task.**
14. Taiki Miyanishi, Naoto Okamura, Xiaoxi Liu, Kazuhiro Seki, and Kuniaki Uehara. TREC 2011 Microblog Track Experiments at Kobe University. In *Proceedings of the 20th Text Retrieval Conference (TREC 2011)*, November 2011. **Fourth place among 58 groups in the Realtime adhoc task. Selected as a speaker for the plenary session.**

Computer Skills

AWK, C, Java, Python, R