Jaehui Park

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RESEARCH INTERESTS

Databases – Rankings in (semi-)structured data, Keyword query optimization

Data mining – Graph data mining, Social network analysis, Similarity join

Information Retrieval – Multidimensional recommendation, Top-k query processing

Machine Learning – Distributed machine learning algorithms, Deep learning, Language model

IT Convergence – Industrial data management, Knowledge distribution framework, Linked data

EDUCATION

2012	Ph.D., Computer Science and Engineering, Seoul National University, Seoul, Korea
	Dissertation: A Graph-based Framework for Processing Keyword Queries over Relational
	Databases (Advisor: Sang-goo Lee)
2008	M.S., Computer Science and Engineering, Seoul National University, Seoul, Korea
2005	B.S., Computer Science, Korea Advanced Institute of Science and Technology (KAIST),
	Daejeon, Korea

ACADEMIC AND RESEARCH EXPERIENCE

Mar. 2022-present	Associate Professor, University of Seoul
Mar. 2020-Feb. 2022	Assistant Professor, University of Seoul
Mar. 2018-Feb. 2020	Assistant Professor, Incheon National University
Sep. 2012- Feb. 2018	Research Engineer, Electronics and Telecommunications Research Institute (ETRI)
MarAug. 2012	Postdoctoral Fellow, Institute of Computer Technology, Seoul National University
Dec. 2007-Feb. 2008	Research Intern, National Institute of Informatics, Tokyo, Japan
2009	Teaching Assistant, Database and Advanced Database, Seoul National University
2008	Teaching Assistant, Semantic Data Processing and Topics in Databases, Seoul National University

AWARDS AND HONORS

2006-2011	Brain Korea 21 Fellowship, Korea Ministry of Education and Human Resources
	Development
2007-2011	Samsung Electronics Fellowship, Samsung Electronics
2011	Outstanding Research Award, Brain Korea 21 Information Technology at Seoul National University
2006-2009	Research Fellowship, Seoul National University

PUBLICATIONS

REFEREED JOURNALS

- Hanbit Lee, Jinseok Seol, Sang-goo Lee, Jaehui Park and Junho Shim. 2024. Contrastive Learning for Unsupervised Image-to-Image Translation. Applied Soft Computing, Volume 151, pp. 27609-27619
- 2. Hanbit Lee, Sang-goo Lee, **Jaehui Park** and Junho Shim. 2023. Improving Complex Scene Generation by Enhancing Multi-Scale Representations of GAN Discriminators. IEEE ACCESS, Volume 11, pp. 43067-43079
- 3. Soyun Shin, **Jaehui Park** and Moonwook Ryu. 2023. Integrating Heterogeneous Graphs Using Graph Transformer Encoder for Solving Math Word Problems. IEEE ACCESS, Volume 11, pp. 27609-27619
- 4. Yeonchan Ahn, Sang-goo Lee, Junho Shim and **Jaehui Park**. 2022. Retrieval-Augmented Response Generation for Knowledge-Grounded Conversation in the Wild. IEEE ACCESS, Volume 10, pp. 131374-131385
- 5. Yeonchan Ahn, Sang-goo Lee and **Jaehui Park**. 2020. Exploiting Text Matching Techniques for Knowledge-Grounded Conversation. IEEE ACCESS, Volume 8, pp. 126201-126214
- 6. Jae-won Lee and **Jaehui Park**. 2019. An Approach to Constructing a Knowledge Graph Based on Korean Open-Government Data. Applied Sciences, Volume 9(19), pp. 4095-4107
- 7. **Jaehui Park**. 2019. Selectively Connected Self-Attentions for Semantic Role Labeling. Applied Sciences, Volume 9(8), pp 1716-1731
- 8. **Jaehui Park** and Sang-goo Lee. 2016. Finding Top-k Answers in Node Proximity Search using Distribution State Transition Graph. ETRI Journal (ETRIJ), Volume 38(4), pp. 714-723
- 9. **Jaehui Park**_and Sang-goo Lee. 2014. A Graph-theoretic Approach to Optimize Keyword Queries in Relational Databases. Knowledge and Information Systems (KAIS), Volume 41(3), pp. 843-870
- 10. **Jaehui Park** and Sang-goo Lee. 2013. Correlation-based Ranking over Relational Databases. INFORMATION-An International Interdisciplinary Journal, Volume 16, Issue 6(B), pp. 4175-4191
- 11. **Jaehui Park** and Sang-goo Lee. 2013. Pragmatic Correlation Analysis for Probabilistic Ranking over Relational Data. Expert Systems with Applications (ESWA), Volume 40(7), pp. 2649-2658
- 12. Dongjoo Lee, **Jaehui Park**, Junho Shim and Sang-goo Lee. 2011. Efficient Filtering Techniques for Cosine Similarity Joins, INFORMATION-An International Interdisciplinary Journal, Volume 14, pp. 1265-1276

13. **Jaehui Park** and Sang-goo Lee. 2011. Keyword Search in Relational Databases, Knowledge and Information Systems (KAIS), Volume 26(2), pp. 175-193

REFEREED CONFERENCES

- 14. **Jaehui Park** and Su-young Chi. 2015. A Requirement for Traceability of Production Logs in Large-scale Shop Floor Data. Proceedings of the International Conference on Big Data Applications and Services (BigDas'15), pp. 128-132
- 15. **Jaehui Park** and Su-young Chi. 2015. An Approach to Highly Available and Extensible Data Management Systems for Large Scale Factory Floor Data. Proceedings of the International Conference on Data Analytics (DATAANALTICS'15), pp. 74-77
- Jaehui Park and Sang-goo Lee. 2014. Efficiently Processing of Top-k Typicality Query for Structured Data. Proceedings of the International Conference on Database Management Systems (DMS'14), pp. 391-401
- 17. **Jaehui Park** and Yunkyung Park. 2013. Social Interaction Propensity Model using Information Entropy. Proceedings of the International Conference on Social Computing and Its Applications (SCA'13), pp. 283-289
- 18. Jongheum Yeon, Dongjoo Lee, **Jaehui Park**, Sang-goo Lee. 2012. A Framework for Sentiment Analysis on Smartphone Application Stores. Proceedings of the International Conference on Advanced Information Technology and Sensor Application (ATIS'12), pp. 1-12
- 19. **Jaehui Park** and Sang-goo Lee. 2011. Exploiting correlation to rank database query results. In Proceedings of the International Conference on Database Systems for Advanced Applications (DASFAA'11), pp. 296-305
- 20. **Jaehui Park** and Sang-goo Lee. 2010. Ranking objects based on attribute value correlation. In Proceedings of the International Conference on Database and Expert Systems Applications (DEXA'10), pp. 346-359
- 21. **Jaehui Park** and Sang-goo Lee. 2010. Probabilistic ranking for relational databases based on correlations. In Proceedings of the workshop on Ph.D. students in Information and Knowledge Management (PIKM '10), pp. 79-82
- 22. Dongjoo Lee, **Jaehui Park**, Junho Shim and Sang-goo Lee. 2010. An Efficient Similarity Join Algorithm with Cosine Similarity Predicate. In Proceedings of the International Conference on Database and Expert Systems Applications (DEXA'10), pp. 422-436
- 23. **Jaehui Park** and Sang-goo Lee. 2009. Approximating Retrieval Unit for Un-structured Querying in Relational Databases, In Proceedings of the International Conference on Emerging Databases (EDB'09), pp. 423-430
- 24. **Jaehui Park**, Tomohiro Fukuhara, Ikki Ohmukai, Hideaki Takeda and Sang-goo Lee. 2008. Web content summarization using social bookmarks: a new approach for social summarization. In Proceeding of the workshop on Web Information and Data Management (WIDM '08), pp. 103-110

25. **Jaehui Park**, Sang-goo Lee and Jonghoon Chun. 2007. A Wiki-System with Integrity Support for Structured Data, In Proceedings of the International Conference on Information Society (ICIS'07), pp. 378-383

OTHER PUBLICATIONS

26. **Jaehui Park**, Tomohiro Fukuhara and Hideaki Takeda. 2008. Web Content Summarization Using Social Bookmarking Service, NII Technical Report, pp. 1-7