Jinseok Seol

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Research Interests

Machine learning & deep learning based information retrieval and data mining. Especially interested in:

- Context-aware Sequential Recommendation Model
- Explainable Recommender System
- Parameter-efficient Recommendation Model
- Large Language Model for Recommender System
- Cross-domain Image Retrieval
- Deep Learning Applications for E-commerce

WORK EXPERIENCE

• Dankook University Assistant Professor	2025.09 – current
• Korea Advanced Institute of Science & Technology Postdoctoral Researcher	2024.09 - 2025.08
• Intellisys Corp. Senior Researcher	2017.12 - 2020.08
• Stylewiki Corp. Senior Developer	2014.09 - 2015.12
EDUCATION	

•	Yonsei University	2010.03 - 2	017.0
	Ph.D. in Computer Science and Engineering		
•	Seoul National University	2017.03 - 2	024.0

B.S. in Mathematics & Computer Science (double major)

Publications

- [1] S. Park, H. Jeong, T. Djanibekov, G. Jeon, J. Seol, and J. Choi, On the relationship between populated regions and adversarial robustness in deep neural networks, The 25th IEEE International Conference on Data Mining (ICDM Short), 2025.
- [2] J. Seol and J. Choi, Context-aware negative sampling for sequential recommendation, IEEE Access, 2025.
- [3] J. Seol, Y. Ko, and S.-G. Lee, Parameter-efficiently Leveraging Session Information in Deep Learning based Session-aware Sequential Recommendation, IEEE Access, 2025.
- [4] H. Na, M. Gang, Y. Ko, J. Seol, and S.-g. Lee, Enhancing Large Language Model Based Sequential Recommender Systems with Pseudo Labels Reconstruction, Findings of the Association for Computational Linguistics: EMNLP 2024 (EMNLP Short Findings), 2024.
- [5] J. Seol, M. Gang, S.-g. Lee, and J. Park, Proxy-based Item Representation for Attribute and Context-aware Recommendation, The 17th ACM International Conference on Web Search and Data Mining (WSDM), 2024.
- [6] H. Lee, J. Seol, S.-g. Lee, J. Park, and J. Shim, Contrastive Learning for Unsupervised Image-to-image Translation, Applied Soft Computing, 2024.
- [7] S. Jang, H. Y. Kim, Y. Lee, J. Seol, S. Kim, and S. G. Lee, Deep learning for classification of high-end fashion brand sensibility, Journal of the Korean Society of Clothing and Textiles, 2022.

- [8] J. Seol, Y. Ko, and S.-g. Lee, Exploiting Session Information in BERT-based Session-aware Sequential Recommendation, Proceedings of the 45th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR Short), 2022.
- [9] J. Seol, S. Kim, S. Park, H. Lim, H. Na, E. Park, D. Jung, S. Park, K. Lee, and S.-g. Lee, Technologies for AI-Driven Fashion Social Networking Service with E-Commerce, Semantic Intelligence: Select Proceedings of ISIC 2022, 2023.
- [10] H. Cho, J. Seol, and S.-g. Lee, Masked Contrastive Learning for Anomaly Detection, The 30th International Joint Conference on Artificial Intelligence (IJCAI), 2021.
- [11] S. Kim, J. Seol, H. Lim, and S.-g. Lee, False Negative Distillation and Contrastive Learning for Personalized Outfit Recommendation, arXiv preprint arXiv:2110.06483, 2021.
- [12] H. Cho, C. Ahn, K. Min Yoo, J. Seol, and S.-g. Lee, Leveraging Class Hierarchy in Fashion Classification, Proceedings of the IEEE/CVF International Conference on Computer Vision Workshops (ICCV Workshop), 2019.
- [13] H. Lee, J. Seol, and S.-g. Lee, Style2vec: Representation Learning for Fashion Items from Style Sets, arXiv preprint arXiv:1708.04014, 2017.
- [14] S. Choi, T. Kim, J. Seol, and S.-g. Lee, A Syllable-based Technique for Word Embeddings of Korean Words, Proceedings of the First Workshop on Subword and Character Level Models in NLP (EMNLP Workshop SCLeM), 2017.
- [15] S. Choi, J. Seol, and S.-g. Lee, On Word Embedding Models and Parameters Optimized for Korean, 한국어정보학회: 학술대회논문집, 2016.
- [16] J. Seol and S.-g. Lee, lexrankr: LexRank 기반 한국어 다중 문서 요약, 한국정보과학회 학술발표논문집, 2016.

PATENTS

 The Automatic Recommendation System and Method of the Fashion Coordination 박성찬, 설진석, 안채민, 이상구 1023070950000

 Electronic Device, Server and Method Thereof for Recommending Fashion Item 이한빛, 설진석, 이상구, 이형동 1024649060000

TEACHING EXPERIENCE

• Teaching Assistant

Seoul National University

- IT Entrepreneurship [M1522.002700] (2020 Fall)
- Introduction to Databases [M1522.001800] (2017 Fall)
- Digital Computer Concept and Practice [035.001] (2017 Spring)
- Recommender Systems [4190.773] (2024 Spring)

Instructor

Dankook University

- SW Convergence Coding II [529550] (2025 Fall)
- $-\,$ Computer and Communication [478500] (2025 Fall)

SCHOLARSHIPS AND AWARDS

• KFAS Scholarhip (Underground Scholarship in Mathematics)

2012.02 - 2015.02

• SW Maestro (Government Program, 2nd Tier Mentee)

2011.07 - 2012.07