Representation alignment method

Graduates have published in NeurIPS, ACM SIGKDD, IISE Transactions, IEEE T-ITS, EAACI, AAAAI, TFSC, etc.



임치현교수 **Chiehyeon Lim**

Service Intelligence Lab Department of Industrial Engineering Graduate School of Artificial Intelligence UNIST (Ulsan National Institute of Science and Technology)

> Office: Bldg. 112 Rm. 301-11 Lab: Bldg. 112 Rm. 302-1 Tel: +82-52-217-3112 E-mail: chlim@unist.ac.kr http://service.unist.ac.kr Google Scholar Profile

Academic Positions/Services

- 2017~Present: Associate Professor, Assistant Professor, UNIST
- 2021~2024: Editorial Board Member, Journal of Service Management
- 2015~2017: Assistant Project Scientist & Lecturer, School of Engineering, University of California, Merced (Advisor: Prof. Paul Maglio)
- 2014~2015: Post-doctoral Researcher, Information Research Laboratories & Department of Industrial and Management Engineering, POSTECH (Advisor: Prof. Kwang-Jae Kim)

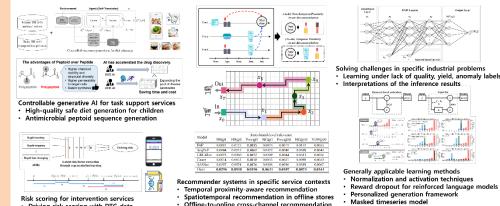
- · 2014: Ph.D. in Industrial and Management Engineering, POSTECH (Advisor: Prof. Kwang-Jae Kim)
- · 2009: B.S. in Industrial and Management Engineering, POSTECH

Awards/Honors

- 2023: 2022 UNIST Outstanding Faculty Award (Industry-University Collaboration)
- 2021: Elsevier Most Cited Award, Cities
- 2021: 2020 UNIST Outstanding Faculty Award (Research)
- 2019: Best Paper in 2018, Journal of Service Theory and Practice
- 2019: 2018 UNIST Outstanding Faculty Award (Education)
- · 2018: Award from the Minister of Science and ICT, Best Work of the KIST CRPC Fellowship
- 2016: Best Paper, SERVSIG
- 2009: Best Paper, APIEMS

Service Intelligence Lab

We focus on data science research for real-world service impacts.



Some of recent papers as the corresponding author

with methylation data

Driving risk scoring with DTG data

Disease risk scoring

· Cho, H., & Lim, C. (2024). Multistage Net: Learning continuous multistage manufacturing processes of liquid products without intermediate output and lead time labels. IEEE Transactions on Industrial Informatics, 1-11.

Offline-to-online cross-channel recommendation

- Lee, C., & Lim, C. (2024). A bi-objective perspective on controllable language models: Reward Dropout improves off-policy control performance. arXiv preprint:2310.04483. Currently under blind review in a top conference.
- Seo, H., & Lim, C. (2024). ST-MTM: Masked time series modeling with seasonal-trend decomposition for time series forecasting. Currently under blind review in a top conference.
- Yoon, K., & Lim, C. (2024). Layer-level activation mechanism. arXiv preprint:2306.04940. Currently under blind review in a top conference.
- Cho, H., Kim, K., Yoon, K., Chun, J., Kim, J., Lee, K., ... & Lim, C. (2023). MMP Net: A feedforward neural network model with sequential inputs for representing continuous multistage manufacturing processes without intermediate outputs. IISE Transactions, 1-12.
- Kim, Y., Lim, C., Lee, J., Kim, S., Kim, S., & Seo, D. H. (2023). Chemistry-informed machine learning: Using chemical property features to improve gas classification performance. Chemometrics and Intelligent Laboratory Systems, 237, 104808.
- Seo, H., Shin, J., Kim, K. H., Lim, C., & Bae, J. (2022). Driving risk assessment using nonnegative matrix factorization with driving behavior records. IEEE Transactions on Intelligent *Transportation Systems*, 23(11), 20398-20412.
- Shin, J., Lee, C., Lim, C., Shin, Y., & Lim, J. (2022). Recommendation in Offline Stores: A gamification approach for learning the spatiotemporal representation of indoor shopping. In Proceedings of the 28th ACM SIGKDD Conference on Knowledge Discovery and Data Mining.
- Lee, C., Kim, S., Jeong, S., Lim, C., Kim, J., Kim, Y., & Jung, M. (2021). MIND dataset for diet planning and dietary healthcare with machine learning: dataset creation using combinatorial optimization and controllable generation with domain experts. In Thirty-fifth Conference on Neural Information Processing Systems (NeurIPS) Datasets and Benchmarks Track.
- Lee, C., Kim, S., Lim, C., Kim, J., Kim, Y., & Jung, M. (2021). Diet planning with machine learning: Teacher-forced REINFORCE for composition compliance with nutrition enhancement. In Proceedings of the 27th ACM SIGKDD Conference on Knowledge Discovery & Data Mining.
- Lee, C., & Lim, C. (2021). From technological development to social advance: A review of Industry 4.0 through machine learning. Technological Forecasting and Social Change, 167,
- Lim, C., Kim, M. J., Kim, K. H., Kim, K. J., & Maglio, P. (2019). Customer process management: A framework for using customer-related data to create customer value. Journal of Service Management, 30(1), 105-131.
- Lim, C., & Maglio, P. P. (2018). Data-driven understanding of smart service systems through text mining. Service Science, 10(2), 154-180.
- Lim, C., Kim, K. H., Kim, M. J., Heo, J. Y., Kim, K. J., & Maglio, P. P. (2018). From data to value: A nine-factor framework for data-based value creation in information-intensive services. International Journal of Information Management, 39, 121-135.