

JEONGWHAN CHOI
jeongwhan.choi@kaist.ac.kr
[Homepage Link](#)
[Google Scholar Link](#)

EDUCATION

Yonsei University, Republic of Korea

Ph.D. in Artificial Intelligence

Sep 2020 - Aug 2025

Advisors: Noseong Park and Sung-Bae Cho

- Thesis Title: Empowering Deep Learning on Graphs: Tackling Over-smoothing and Over-squashing
- GPA: 4.21/4.3

Jeonbuk National University, Republic of Korea

B.S. in Software Engineering

Mar 2016 - Aug 2020

- GPA: 3.98/4.5 (Presidential Award for Outstanding Undergraduate)

RESEARCH EXPERIENCE

Post-doctoral Researcher

Information & Electronics Research Institute, KAIST (Advisor: Prof. Noseong Park)

Sep 2025 - Now

Ph.D. Student

BigDyL, Yonsei University (Advisor: Prof. Noseong Park (affiliated with KAIST since 2024))

Aug 2020 - Aug 2025

Undergraduate Student Research Assistant

AI & SE Lab, Jeonbuk National University (Advisor: Prof. Duksan Ryu)

Jan 2020 - Aug 2020

Undergraduate Student Research Assistant

Software System and Engineering Laboratory (SSEL), Jeonbuk National University (Advisor: Prof. Suntae Kim)

Nov 2018 - Nov 2019

SELECTED PUBLICATIONS

* indicates equal contribution.

1. **Jeongwhan Choi**, Jongwoo Kim, Woosung Kang, Noseong Park, "Learning Posterior Predictive Distributions for Node Classification from Synthetic Graph Priors", In International Conference on Learning Representations (ICLR), 2026. [[OpenReview](#)]
2. **Jeongwhan Choi**, Seungjun Park, Sumin Park, Sung-Bae Cho, Noseong Park "Are Graph Transformers Necessary? Efficient Long-Range Message Passing with Fractal Nodes in MPNNs", in AAAI Conference on Artificial Intelligence (AAAI), 2026. [[Oral Presentation](#)][[Acceptance Rate 17.6% \(4,167/23,680\)](#)] [[arXiv](#)]
3. Youn-Yeol Yu*, **Jeongwhan Choi***, Jaehyeon Park, Kookjin Lee, and Noseong Park, "PIORF: Physics-Informed Ollivier-Ricci Flow for Long-Range Interactions in Mesh Graph Neural Networks", In International Conference on Learning Representations (ICLR), 2025. [[Acceptance Rate 32.08%](#)] [[Paper](#)]
4. **Jeongwhan Choi***, Hyowon Wi*, Jayoung Kim, Yehjin Shin, Kookjin Lee, Nathaniel Trask, Noseong Park, "Graph Convolutions Enrich the Self-Attention in Transformers!", In Conference on Neural Information Processing Systems (NeurIPS), 2024. [[Paper Acceptance rate: 25.8%](#)][[arXiv](#)]
5. **Jeongwhan Choi**, Sumin Park, Hyowon Wi, Sung-Bae Cho, and Noseong Park, "PANDA: Expanded Width-Aware Message Passing Beyond Rewiring", in International Conference on Machine Learning (ICML), 2024. [[Acceptance Rate 27.5% \(2610/9473\)](#)][[Paper](#)][[arXiv](#)]
6. Yehjin Shin*, **Jeongwhan Choi***, Hyowon Wi, Noseong Park, "An Attentive Inductive Bias for Sequential Recommendation beyond the Self-Attention", in In AAAI Conference on Artificial Intelligence (AAAI), 2024. [[Acceptance Rate 23.75% \(2342/12100\)](#)] [[arXiv](#)]

7. **Jeongwhan Choi**, Seoyoung Hong, Noseong Park, Sung-Bae Cho, "GREAD: Graph Reaction-Diffusion Networks", In *Proceedings of the 40th International Conference on Machine Learning (ICML)*, 2023. [[Paper](#)][[Code](#)][[Paper Acceptance rate: 27.94% \(1,827/6,538\)](#)]
8. **Jeongwhan Choi**, Seoyoung Hong, Noseong Park, Sung-Bae Cho, "Blurring-Sharpening Process Models for Collaborative Filtering", In *Proceedings of the 46th ACM Conference on Research and Development in Information Retrieval (SIGIR)*, 2023. [[Paper](#)][[Code](#)][[Paper Acceptance rate: 20.1% \(165/822\)](#)]
9. **Jeongwhan Choi** and Noseong Park, "Graph Neural Rough Differential Equations for Traffic Forecasting", *ACM Transactions on Intelligent Systems and Technology (TIST)*, 2023. [[Paper](#)][[IF=10.489](#)]
10. **Jeongwhan Choi**, Hwangyong Choi, Jeehyun Hwang, Noseong Park, "Graph Neural Controlled Differential Equations for Traffic Forecasting", In AAAI Conference on Artificial Intelligence (AAAI), 2022. [[Paper](#)][[Code](#)][[Regular Paper Acceptance rate: 14.2% \(1,161/8,198\)](#)] [[Overall Acceptance rate: 15.2% \(1,370/9,020\)](#)]
11. **Jeongwhan Choi**, Jinsung Jeon, and Noseong Park, "LT-OCF: Learnable-Time ODE-based Collaborative Filtering", In *Proceedings of the 30th ACM International Conference on Information and Knowledge Management (CIKM)*, 2021. [[Paper](#)] [[Code](#)] [[Regular paper acceptance rate: 21.7% \(271/1,251\)](#)] [[Overall Acceptance rate: 22% \(1,101/4,989\)](#)]

ALL PUBLICATIONS

* indicates equal contribution.

CONFERENCE PAPERS

1. **Jeongwhan Choi**, Jongwoo Kim, Woosung Kang, Noseong Park, "Learning Posterior Predictive Distributions for Node Classification from Synthetic Graph Priors", In International Conference on Learning Representations (ICLR), 2026. [[OpenReview](#)]
2. **Jeongwhan Choi**, Seungjun Park, Sumin Park, Sung-Bae Cho, abd Noseong Park "Are Graph Transformers Necessary? Efficient Long-Range Message Passing with Fractal Nodes in MPNNs", in In AAAI Conference on Artificial Intelligence (AAAI), 2026. [[Oral Presentation](#)][[Acceptance Rate 17.6% \(4,167/23,680\)](#)]
3. Seonkyu Lim*, **Jeongwhan Choi***, and Jaehoon Lee*, "FraudCenGCL: Role-Aware Graph Contrastive Learning for Low-Homophily Fraud Detection", In IEEE International Conference on Big Data (Big Data), 2025.
4. Yehjin Shin, **Jeongwhan Choi**, Seojin Kim, and Noseong Park, "TV-Rec: Time-Variant Convolutional Filter for Sequential Recommendation," In Conference on Neural Information Processing Systems (NeurIPS), 2025. [[Acceptance Rate 25.52% \(5290/21,575\)](#)]
5. Hyowon Wi, **Jeongwhan Choi**, and Noseong Park, "Learning Advanced Self-Attention for Linear Transformers in the Singular Value Domain", in International Joint Conference on Artificial Intelligence (IJCAI), 2025. [[Acceptance Rate 19.3% \(1042/5404\)](#)]
6. Youn-Yeol Yu*, **Jeongwhan Choi***, Jaehyeon Park, Kookjin Lee, and Noseong Park, "PIORF: Physics-Informed Ollivier-Ricci Flow for Long-Range Interactions in Mesh Graph Neural Networks", In International Conference on Learning Representations (ICLR), 2025. [[Acceptance Rate 32.08%](#)] [[Paper](#)]
7. Seonkyu Lim*, **Jeongwhan Choi***, Jaehoon Lee, Noseong Park, "FrAug: Enhanced Fraud Detection in Interbank Transfers via Augmented Account Features", In IEEE BigComp, 2025.
8. Chaejeong Lee*, **Jeongwhan Choi***, Hyowon Wi, Sung-Bae Cho, and Noseong Park, "SCONE: A Novel Stochastic Sampling to Generate Contrastive Views and Hard Negative Samples for Recommendation", In the 18th ACM International Conference on Web Search and Data Mining (WSDM), 2025. [[Acceptance rate: 17.3% \(106/615\)](#)]
9. **Jeongwhan Choi***, Hyowon Wi*, Jayoung Kim, Yehjin Shin, Kookjin Lee, Nathaniel Trask, Noseong Park, "Graph Convolutions Enrich the Self-Attention in Transformers!", In Conference on Neural Information Processing Systems (NeurIPS), 2024. [[Paper Acceptance rate: 25.8%](#)][[arXiv](#)]

10. Seonkyu Lim*, **Jeongwhan Choi***, Sang-Ha Yoon, Shinhuck Kang, Young-Min Kim, and Hyunjoong Kang, "Bridging Dynamic Factor Models and Neural Controlled Differential Equations for Nowcasting GDP", In Proceedings of the 33rd ACM International Conference on Information and Knowledge Management (CIKM), 2024. [[Applied Research Paper Acceptance rate: 32.59% \(103/316\)](#)]
11. **Jeongwhan Choi**, Sumin Park, Hyowon Wi, Sung-Bae Cho, and Noseong Park, "PANDA: Expanded Width-Aware Message Passing Beyond Rewiring", in International Conference on Machine Learning (ICML), 2024. [[Acceptance Rate 27.5% \(2610/9473\)](#)][[Paper](#)][[arXiv](#)]
12. Jayoung Kim, Yehjin Shin, **Jeongwhan Choi**, Hyowon Wi, Noseong Park, "Polynomial-based Self-Attention for Table Representation Learning", in International Conference on Machine Learning (ICML), 2024. [[Acceptance Rate 27.5% \(2610/9473\)](#)][[arXiv](#)]
13. Seoyoung Hong, **Jeongwhan Choi**, Yeon-Chang Lee, Srijan Kumar, Noseong Park, "SVD-AE: Simple Autoencoders for Collaborative Filtering", in International Joint Conference on Artificial Intelligence (IJCAI), 2024. [[Acceptance Rate 14.00% \(791/5651\)](#)][[arXiv](#)]
14. Youn-Yeol Yu, **Jeongwhan Choi**, Woojin Cho, Kookjin Lee, Nayong Kim, Kiseok Chang, ChangSeung Woo, Ilho Kim, SeokWoo Lee, Joon Young Yang, Sooyoung Yoon, and Noseong Park, "Learning Flexible Body Collision Dynamics with Hierarchical Contact Mesh Transformer", in ICLR, 2024. [[Acceptance Rate 30.81% \(2250/7304\)](#)][[arXiv](#)]
15. Yehjin Shin*, **Jeongwhan Choi***, Hyowon Wi, Noseong Park, "An Attentive Inductive Bias for Sequential Recommendation beyond the Self-Attention", in In AAAI Conference on Artificial Intelligence (AAAI), 2024. [[Acceptance Rate 23.75% \(2342/12100\)](#)] [[arXiv](#)]
16. Seonkyu Lim, Jaehyeon Park, Seojin Kim, Hyowon Wi, Haksoo Lim, Jinsung Jeon, **Jeongwhan Choi**, and Noseong Park, "Long-term Time Series Forecasting based on Decomposition and Neural Ordinary Differential Equations", In *IEEE International Conference on Big Data (Big Data)*, 2023.
17. **Jeongwhan Choi** and Duksan Ryu, "QoS-Aware Graph Contrastive Learning for Web Service Recommendation", In *Proceedings of the 30th Asia-Pacific Software Engineering Conference (APSEC 2023)*, 2023.
18. **Jeongwhan Choi**, Seoyoung Hong, Noseong Park and Sung-Bae Cho, "GREAD: Graph Reaction-Diffusion Networks", In *Proceedings of the 40th International Conference on Machine Learning (ICML)*, 2023. [[Paper](#)][[Code](#)][[Paper Acceptance rate: 27.94% \(1,827/6,538\)](#)]
19. **Jeongwhan Choi**, Seoyoung Hong, Noseong Park and Sung-Bae Cho, "Blurring-Sharpening Process Models for Collaborative Filtering", In *Proceedings of the 46th ACM Conference on Research and Development in Information Retrieval (SIGIR)*, 2023. [[Paper](#)][[Code](#)][[Paper Acceptance rate: 20.1% \(165/822\)](#)]
20. **Jeongwhan Choi** and Duksan Ryu, "Graph Convolution-based Collaborative Filtering for Web Service QoS Ranking", In *Proceedings of the 25th Korea Conference on Software Engineering (KCSE 2023)*, 2023, pp. 58-67.
21. Seoyoung Hong, Heejoo Shin, **Jeongwhan Choi**, and Noseong Park, "Prediction-based One-shot Dynamic Parking Pricing", In *Proceedings of the 31st ACM International Conference on Information and Knowledge Management (CIKM)*, 2022. [[Paper](#)][[Code](#)]
22. **Jeongwhan Choi**, Hwangyong Choi, Jeehyun Hwang and Noseong Park, "Graph Neural Controlled Differential Equations for Traffic Forecasting", In AAAI Conference on Artificial Intelligence (AAAI), 2022. [[Paper](#)][[Code](#)][[Regular Paper Acceptance rate: 14.2% \(1,161/8,198\)](#)] [[Overall Acceptance rate: 15.2% \(1,370/9,020\)](#)]
23. Taeyong Kong, Taeri Kim, Jinsung Jeon, **Jeongwhan Choi**, Yeon-Chang Lee, Noseong Park and Sang-Wook Kim, "Linear, or Non-Linear, That is the Question!", In *Proceedings of the 15th ACM International Web Search and Data Mining Conference (WSDM)*, 2022. [[Paper](#)][[Code](#)] [[Regular Paper Acceptance rate: 15.8% \(80/505\)](#)] [[Overall Acceptance Rate: 18% \(315/1,765\)](#)]
24. **Jeongwhan Choi** and Duksan Ryu, "Self-Supervised Learning Using Feature Subsets of Software Defect Data", In *Proceedings of the Korea Software Congress (KSC)*, Dec. 2021, pp.203-205.
25. **Jeongwhan Choi**, Jinsung Jeon, and Noseong Park, "LT-OCF: Learnable-Time ODE-based Collaborative Filtering", In *Proceedings of the 30th ACM International Conference on Information and*

Knowledge Management (CIKM), 2021. [Paper] [Code] [Regular paper acceptance rate: 21.7% (271/1,251)] [Overall Acceptance rate: 22% (1,101/4,989)]

26. **Jeongwhan Choi** and Duksan Ryu, "Bayesian Optimization Framework for Cross-Version Defect Prediction", In *Proceedings of the 23rd Korea Conference on Software Engineering (KCSE 2021)*, 2021, pp. 63-72. [Best Paper]
27. **Jeongwhan Choi** and Duksan Ryu, "A Study on the Applicability of Transfer Learning Techniques for Cross-Project Defect Regression", In *Proceedings of the Korea Software Congress (KSC)*, 2020, pp. 150 - 152.
28. **Jeongwhan Choi**, Duksan Ryu, and Suntae Kim, "Comparative Study of Transfer Learning Models for Cross-Project Automotive Software Defect Prediction", In *Proceedings of the Korea Computer Congress (KCC)*, 2020, pp. 257-259.
29. **Jeongwhan Choi**, Jiwon Choi, Duksan Ryu, and Suntae Kim, "Prediction for Configuration Bug Report Using Text Mining", In *Proceedings of the 22nd Korea Conference on Software Engineering (KCSE 2020)*, 2020, pp. 350-357.
30. Seounghan Song, **Jeongwhan Choi**, Mingu Kang, and Cheoljung Yoo, "A Software Module That Analyzes the Relationship Between Headline and Content of the Web Article: CHIMERA", in *Proceedings of the 2019 KIIT DCS Summer Conference*, 2019, vol. 14, pp. 437-440.

JOURNAL PAPERS

1. Yeon Uk Jeong, **Jeongwhan Choi**, Noseong Park, Jae Yong Ryu, and Yi Rang Kim, "Predicting Drug-Drug Interactions: A Deep Learning Approach with GCN-Based Collaborative Filtering", *Artificial Intelligence in Medicine*, 2025. [IF 6.1] [Paper]
2. Yeon Uk Jeong, **Jeongwhan Choi**, Noseong Park, Jae Yong Ryu, and Yi Rang Kim, "Predicting Drug-Drug Interactions: A Deep Learning Approach with GCN-Based Collaborative Filtering", *Artificial Intelligence in Medicine*, 2025. [IF 6.1] [Paper]
3. Taeyang Lee, **Jeongwhan Choi**, Inyeob Na, Insun Yoo, Sungil Woo, Kwang Jong Kim, Mikyung Park, Joonghwan Yang, Jeongguk Min, Seokwoo Lee, Noseong Park, Joonyoung Yang, "Graph-Based Representation Approach for Deep Learning of Organic Light-Emitting Diode Devices", *Advanced Intelligent System*, 2024. [IF=6.8][Paper]
4. **Jeongwhan Choi** and Noseong Park, "Graph Neural Rough Differential Equations for Traffic Forecasting", *ACM Transactions on Intelligent Systems and Technology (TIST)*, 2023. [Paper][IF=10.489]
5. Hwangyong Choi, **Jeongwhan Choi**, Jeehyun Hwang, Kookjin Lee, Dongeun Lee and Noseong Park, "Climate Modeling with Neural Advection-Diffusion Equation", *Knowledge and Information Systems*, Jan. 2023. [Paper] [IF=3.205(2021) Five year impact factor]
6. **Jeongwhan Choi** and Duksan Ryu, "Bayesian Optimization Framework for Improved Cross-Version Defect Prediction", *KIPS Transactions on Software and Data Engineering (KTSDE)*, Vol. 10, No. 9, pp. 339-348, Sep. 2021.
7. **Jeongwhan Choi**, Jiwon Choi, Duksan Ryu and Suntae Kim, "Improved Prediction for Configuration Bug Report Using Text Mining and Dimensionality Reduction", *Journal of KIISE*, 2021, Vol. 48, No. 1, pp. 35-42.
8. **Jeongwhan Choi**, Jiwoo Noh, and Suntae Kim, "Prediction Techniques for Difficulty Level of Hanja Using Multiple Linear Regression", *The Journal of the Institute of Internet, Broadcasting and Communication*, vol. 19, no. 6, 2019.
9. **Jeongwhan Choi**, "Iceberg-Ship Classification in SAR Images Using Convolutional Neural Network with Transfer Learning", *Journal of Internet Computing and Services*, vol. 19, no. 4, pp. 35-44, 2018.

ABSTRACTS AND CONTRIBUTIONS TO PEER-REVIEWED WORKSHOPS

1. Jinsung Jeon, Jaehyeon Park, Sewon Park, **Jeongwhan Choi**, Minjung Kim, and Noseong Park, "Possibility for Proactive Anomaly Detection", I Can't Believe It's Not Better: Challenges in Applied Deep Learning (ICBINB) Workshop at ICLR, 2025. [Paper]

2. Seonkyu Lim*, **Jeongwhan Choi***, Noseong Park, "FraudCenGCL: Enhancing Fraud Detection via Dual-View Graph Contrastive Learning with Account Centrality Features", In Social Impact: Bridging Innovations in Finance, Social Media, and Crime Prevention Workshop at AAAI 2025.
3. Seonkyu Lim*, **Jeongwhan Choi***, Jaehoon Lee, Noseong Park, "FrAug: Enhanced Fraud Detection in Interbank Transfers via Augmented Account Features", In AI4TS Workshop at AAAI 2025.
4. Seonkyu Lim*, **Jeongwhan Choi***, Jaehoon Lee, Noseong Park, "Enhanced Fraud Detection in Bank Transfers via Augmented Account Features", ACM ICAIF Workshop on Foundation Models for Time Series: Exploring New Frontiers (FM4TS), 2024. [Accepted for oral presentation]
5. Jaehoon Lee, Chan Kim, Gyumin Lee, Haksoo Lim, **Jeongwhan Choi**, Kookjin Lee, Dongeun Lee, Sanghyun Hong, and Noseong Park, "HyperNetwork Approximating Future Parameters for Time Series Forecasting under Temporal Drifts", *NeurIPS 2023 Workshop on Distribution Shifts (DistShift)*, 2023.
6. Jeehyun Hwang, **Jeongwhan Choi**, Hwangyong Choi, Kookjin Lee, Dongeun Lee, and Noseong Park, "Climate Modeling with Neural Diffusion Equations", In *Proceedings of the 21st IEEE International Conference on Data Mining (ICDM)*, 2021. [Paper] [Code] [Regular paper acceptance rate: 9.9% (98/990)] [Overall Acceptance Rate: 20% (198/990)]

PREPRINT PAPERS

1. Jeongeun Lee, Seongku Kang, Won-Yong Shin, **Jeongwhan Choi**, Noseong Park, and Dongha Lee, "Graph Signal Processing for Cross-Domain Recommendation", arXiv preprint arXiv: Arxiv-2407.12374. [arXiv]
2. **Jeongwhan Choi***, Hyowon Wi*, Chaejeong Lee, Sung-Bae Cho, Dongha Lee, Noseong Park, "RDGCL: Reaction-Diffusion Graph Contrastive Learning for Recommendation", arXiv preprint arXiv: Arxiv-2312.16563, 2023. [arXiv]
3. Jaehoon Lee, Chan Kim, Gyumin Lee, Haksoo Lim, **Jeongwhan Choi**, Kookjin Lee, Dongeun Lee, Sanghyun Hong, and Noseong Park, "Time Series Forecasting with Hypernetworks Generating Parameters in Advance", arXiv preprint arXiv: Arxiv-2211.12034, 2022. [Paper]

AWARDS & SCHOLARSHIPS

Outstanding Research Paper Award (3M KRW), KAIST-Samsung Industry-Academic Collaboration	(Nov 2025)
Outstanding Reviewer (Top 10%), KDD 2025 (February Cycle).	Jun 2025
Merit Academic Paper Award, Yonsei University (Runner-up paper in Dept. of Artificial Intelligence) [link]	Feb 2025
Outstanding Reviewer (Top 10%), KDD 2025 (August Cycle).	Dec 2024
Qualcomm Innovation Fellowship Winner, Qualcomm Technologies Inc. (4M KRW, approx. 2.8K USD) [link]	Dec 2024
Top Reviewer Award, LoG 2024. [link]	Nov 2024
Top Reviewer Award, NeurIPS 2024. [link]	Nov 2024
First Prize of Idea Competition, Korea Financial Telecommunications & Clearning Institute. [link]	Oct 2024
Merit Academic Paper Award, Yonsei University (Runner-up paper in Dept. of Artificial Intelligence) [link]	Jul 2024
Best Paper Award, Yonsei University (Best paper in Dept. of Artificial Intelligence) [link]	Jan 2024
Graduate Student Research Assistantship (GSRA) Scholarship, Yonsei University	May 2023
Academic Research Fellowship (ARF), Brain Korea 21 (BK21) Program, Yonsei University	Jan 2023
Graduate Student Research Assistantship (GSRA) Scholarship, Yonsei University	Nov 2022

Academic Research Fellowship (ARF), Brain Korea 21 (BK21) Program, Yonsei University Innovation Award, Yonsei University (Best paper in Dept. of Artificial Intelligence) [link]	Sep 2022 Jul 2022
Graduate Student Research Assistantship (GSRA) Scholarship, Yonsei University	Apr 2022
Best Paper Awards in the 23rd Korea Conference on Software Engineering (KCSE 2021)	Feb 2021
Presidential Award for Outstanding Undergraduate, Jeonbuk National University	Dec 2019
Best Paper Awards in Dept. of Software Engineering, Jeonbuk National University	Dec 2019
Best Paper Awards, Korean Institute of Information Technology	Jun 2019
The National Scholarship for Science and Engineering, KOSAF(Korea Student Aid Foundation)	2018-2019

- This scholarship supports undergraduates with strong academic performance in science and engineering, with the purpose of developing future leaders in these fields.

Academic Excellent Scholarship	2016-2019
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TALKS

Guest Lecture Talk, invited by Jonggu Kang of Sungshin Women's University	Oct 2025
Talk on Top-conference session, Korea Software Congress (KSC 2023)	Dec 2023
Talk on 1st Seminar held by Graph User Group (GUG)	Jun 2023
Talk on Top-conference session, Korea Computer Congress (KCC 2023) [slides]	Jun 2023
Talk on 2023 KSIAM AI Winter School, held by Korean Society for Industrial and Applied Mathematics (KSIAM)[slides][website]	Feb 2023
Talk on 1st Workshop on AI held by Yonsei Univ. [slides][poster]	Oct 2022
Talk on Top-conference session, Korea Computer Congress (KCC 2022) [slides]	Jul 2022
Tutorial on Korea Artificial Intelligence Association (KAIA)	Nov 2021

• Topic: "Graph-based Collaborative Filtering and Neural ODEs"

• This talk is part of a tutorial called "Deep Learning Inspired by Differential Equation" [[slides](#)].

ACADEMIC SERVICES

CONFERENCE ORGANIZER

- Website Chair: LoG 2025
- Web Chair: CIKM 2025

REVIEWER OR PROGRAM COMMITTEE MEMBER FOR CONFERENCE

- WebConf (Former WWW) 2026
- NLDL 2026
- ICML 2025
- ICANN 2025
- ECAI 2025
- SIGIR 2025
- ICLR 2025
- AISTATS 2025
- ICLR 2025

- NeurIPS 2024 (**Top 8% Reviewer Award**), 2025 (Benchmark & Datasets and Position Paper Tracks)
- AAAI 2024, 2025
- IJCAI 2024, 2025
- WSDM 2025, 2026
- CIKM 2024, 2025 (Full paper and short paper tracks)
- KDD 2023, 2024, 2025 August Track (**Outstanding Reviewer**), 2025 February Track (**Outstanding Reviewer**), 2026 First Cycle
- SDM 2024
- LoG 2022, 2023, 2024 (**Top Reviewer Award**), 2025
- ICDM 2021, 2022

REVIEWER FOR JOURNAL

- Artificial Intelligence In Medicine - 1 time in 2025
- Proceedings of the Royal Society A - 2 times in 2025
- Data Mining and Knowledge Discovery - 1 time in 2025
- Expert Systems With Applications (ESWA) - 6 times in 2025
- IEEE Transactions on Emerging Topics in Computing - 1 time in 2025
- Transactions on Machine Learning Research (TMLR) - 5 times in 2025
- Knowledge-Based Systems - 9 times in 2025
- Applied Economics Letters - 1 time in 2024
- Neurocomputing - 2 times in 2024 and 4 times in 2025
- IEEE Transactions on Image Processing (TIP) - 1 time in 2024 and 1 time in 2026
- IEEE Transactions on Knowledge and Data Engineering (TKDE) - 1 time in 2023, 1 time in 2024
- Journal of Intelligent & Fuzzy Systems - 1 time in 2024
- Applied Soft Computing - 6 times in 2024, 9 times in 2025
- Applied Artificial Intelligence - 2 times in 2023
- IEEE Transactions on Intelligent Transportation Systems (TIST) - 1 time in 2022, 2 times in 2025

REVIEWER FOR WORKSHOP

- NN4G+ Special Session at ICANN 2025
- TGL Workshops at NeurIPS 2023 and KDD 2025
- Machine Learning and the Physical Sciences (ML4PS) Workshops at NeurIPS 2024 and NeurIPS 2025
- AI4TS Workshops at AAAI 2025, SDM 2025, IJCAI 2025, ICDM 2025
- Workshop on Graphs and More Complex Structures for Learning and Reasoning (GCLR) at AAAI 2024 and AAAI 2026

PATENTS

[Patent Application] Electronic Apparatus for Providing Recommendation Information and Operating Method Thereof, Noseong Park, Yehjin Shin, **Jeongwhan Choi**, Hyowon Wi, US Patent (Application No. 18/931,310). 2024.10.30 Oct 2024

[Patent Application] 추천 정보를 제공하는 전자 장치 및 그 동작 방법, Noseong Park, Yehjin Shin, **Jeongwhan Choi**, Hyowon Wi, KR Patent (Application No. 10-2024-0136316). 2024.10.08 Oct 2024

[Patent Application] 이상 탐지 시스템 및 그 방법, Sewon Park, Minjung Kim, Noseong Park, Jinsung Jeon, **Jeongwhan Choi**, Jaehyun Park, KR Patent (Application No. 10-2024-006519). 2024.01.06 Jan 2024

[Patent Application] Apparatus and Method for Processing Spatiotemporal Data Based on Graph Neural Controlled Differential Equations, Noseong Park, **Jeongwhan Choi**, Jeehyun Hwang, Hwangyong Choi, US Patent (Application No. 18/085,109). 2022.12.20 [\[link\]](#) Dec 2022

[Patent Application] 그래프 신경 제어 미분 방정식 기반의 시공간 데이터 처리 장치 및 방법, Noseong Park, **Jeongwhan Choi**, Jeehyun Hwang, Hwangyong Choi, KR Patent (Application No. 10-2022-0151819). 2022.11.14 [\[link\]](#) Nov 2022

[Patent Application] 学習時間常微分方程式基盤の協業フィルタリング推薦装置及び方法, Noseong Park, **Jeongwhan Choi**, Jinsung Jeon, JP Patent (Application No. 2021-215162). 2021.12.28 Dec 2021

[Patent Application] Apparatus and Method for Collaborative Filtering Based on Learnable-Time Ordinary Differential Equation, Noseong Park, **Jeongwhan Choi**, Jinsung Jeon, US Patent (Issued No. 17/563726). 2021.12.28 [\[link\]](#) Dec 2021

[Patent Application] 학습시간 상미분 방정식 기반의 협업 필터링 추천 장치 및 방법, Noseong Park, **Jeongwhan Choi**, Jinsung Jeon, KR Patent (Issued No. 10-2021-0177928). 2021.12.13 [\[link\]](#) Dec 2021

[Patent Application] 회귀 분석을 이용한 한자 난이도 측정 장치 및 방법, Suntae Kim, **Jeongwhan Choi**, Jiwoo Noh, KR Patent (KR Patent No. 10-2019-0141339). 2019.11.07 [\[link\]](#) Nov 2019

[Granted Patent] 회귀 분석을 이용한 한자 난이도 측정 장치 및 방법, Suntae Kim, **Jeongwhan Choi**, Jiwoo Noh, KR Patent (Application No. 10-2321045). 2021.10.28 [\[link\]](#) Oct 2021

REFERENCES

- Noseong Park (noseong@kaist.ac.kr)
- Sung-Bae Cho (sbcho@yonsei.ac.kr)
- Duksan Ryu (duksan.ryu@jbnu.ac.kr)
- Suntae Kim (stkim@jbnu.ac.kr)