Eunki Cho

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EDUCATION

PhD Kyung Hee University, Republic of Korea, Department of Artificial Intelligence   Mar. 2024 to Current
- AMI Lab (Homepage ⤢)
- Advisor: Seong Tae Kim

MS Kyung Hee University, Republic of Korea, Computer Science and Engineering   Mar. 2022 to Feb. 2024
- AMI Lab (Homepage ⤢)
- GPA: 4.28 / 4.5
- Advisor: Seong Tae Kim

BS Hankyong National University, Republic of Korea, Department of Electrical Engineering   Mar. 2016 to Feb. 2022
- GPA: 3.51 / 4.5

RESEARCH KEYWORDS

Learning Method for Future AI

Video Object Segmentation	Mar. 2022 to Current
Learning under Noisy Labels, Robust Training	Mar. 2023 to Current
Change Detection, Domain Adaptation	Feb. 2024 to Current
Surgical Instruments Segmentation, Phase Recognition	Feb. 2024 to Current

PUBLICATIONS

International Journal Papers

TeCIS: Text-enhanced Cross-modal Instrument Segmentation in Surgical Video
Hyeon Bae Kim†[†], **Eunki Cho**[†], Jung Uk Kim[*], and Seong Tae Kim[*]
Proceedings of the 2025 IEEE International Conference on Image Processing (ICIP), LVLM Workshop, **2025**
Manuscript ⤢

Towards Holistic Surgical Scene Graph
Jongmin Shin[†], **Eunki Cho**[†], Ka Young Kim[†], Jung Yong Kim, Seong Tae Kim[*], and Namkee Oh[*]
International Conference On Medical Image Computing & Computer Assisted Intervention (MICCAI), **2025**
Manuscript ⤢

PRISM: Pseudo-labeling and Region-based Inpainting for Synthetic Change Detection Modeling
Eunki Cho, Soyoun Won, Oh Sung Choo, and Seong Tae Kim (Corresponding)
IEEE Geoscience and Remote Sensing Letters (GRSL), **2025**
Manuscript ⤢

Spatial Mask-based Adaptive Robust Training for Video Object Segmentation with Noisy Labels
Eunki Cho, Jung Uk Kim, and Seong Tae Kim (Corresponding)
IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), **2025**
Manuscript ⤢

Exploiting recollection effects for memory-based video object segmentation
Eunki Cho, Minkuk Kim, Hyung-Il Kim, Jinyoung Moon, and Seong Tae Kim (Co-Corresponding)
Image and Vision Computing (IMAVIS), 140, **2023**
Manuscript ⤢

Research Experience

● **New York University, New York**
Visiting Scholar, Global AI Frontier Lab (Mar. 2025 – Aug. 2025)

Awards

1st Place, MICCAI 2024 PhaKIR Challenge, Surgical Instrument Instance Segmentation Category, Marrakech, Morocco, Oct. 2024.

PATENTS

[1] M. K. Kim, **Eunki Cho** J. U. Kim, and Seong Tae Kim
Deep neural network uncertainty prediction device and method
Korean Patent Application (10-2023-0110754), Aug. 23, 2023.

ACADEMIC SERVICES

Conference Reviewer - CVPR, ICCV, ECCV, NeurIPS
Journal Reviewer - IMAVIS, TCSVT

References

Advisor Seong Tae Kim   Kyung Hee University, Republic of Korea
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Homepage: Augmented Intelligence Lab ↗

Prof   Jung Uk Kim   Kyung Hee University, Republic of Korea
Tel: +82-31-201-3768
Email: ju.kim@khu.ac.kr
Homepage: Visual Artificial Intelligence Lab ↗

SKILLS

Language Skills

Korean(native), English

Programming Skills

Python, C/C++, Linux

Deep Learning Libraries

PyTorch, TensorFlow