Chan Hur

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Research Interests

Chan Hur is a researcher in the field of multimodal learning (Computer Vision + Natural Language Process), focusing on multidmoal represenation learning, multimodal retrieval (text-video retrieval, text-guided image retrieval) and Large Language/Multimodal Model (LLM/LMM). He received his Ph.D. in Computer Science and Engineering.

Education

Ph.D. | *Department of Computer Science and Engineering*   2021-2025
- Kyungpook National University   Deagu, South Korea
- Dissertation: Advancing Text-Video Retrieval with Frame-Wise Generative Information
- Advisor: Hyeyoung Park

M.S. | *Department of Computer Science and Engineering*   2019-2021
- Kyungpook National University   Deagu, South Korea
- Thesis: Zero-Shot Image Recognition Model Using Image Description
- Advisor: Hyeyoung Park

B.S. | *Department of Mechanical Engineering*   2014-2019
- Kyungpook National University   Deagu, South Korea

Publications

International conference
- **Narrating the Video Boosting: Text-Video Retrieval via Comprehensive Utilization of Frame-Level Captions**
  Chan Hur, Jeong-hun Hong, Dong-hun Lee, Dabin Kang, Semin Myeong, Sang-hyo Park, Hyeyoung Park
  Conference on Computer Vision and Pattern Recognition (CVPR), 2025.
  https://arxiv.org/abs/2503.05186
- **Local feature aggregation with attribute anchors for Text-guided Image-Text Retrieval**
  Chan Hur, Hyeyoung Park
  International Conference on Artificial Intelligence in Information and Communication (ICAIIC), 2025.
  https://ieeexplore.ieee.org/document/10920824?signout=success
- **Automatic Image Recommendation for Economic topicsusing Visual and Semantic information**
  Chan Hur, Hyeyoung Park
  International Conference on Semantic Computing (ICSC), 2020.
  https://ieeexplore.ieee.org/document/9031480

International journal
- **EENet:Embedding Enhancement Network for Compositional Image-Text Retrieval using Generated Text**
  Chan Hur, Hyeyoung Park
  Multimedia Tools and Applications, SCIE, 2023. (Q1 Journal)
  https://doi.org/10.1007/s11042-023-17531-y
- **Zero-shot image classification using captioning-based rectified embedding vector**
  Chan Hur, Hyeyoung Park
  Applied sciences, SCIE, 2023. (Q2 Journal)
  https://doi.org/10.3390/app13127071
- **An image selection framework for automatic report generation**
  Changhun Hyun, **Chan Hur**, Hyeyoung Park
  Multimedia Tools and Applications, SCIE, 2023. (Q1 Journal)
  https://doi.org/10.1007/s11042-022-13120-7

Domestic publications
- **Improving text-video retrieval performance using video features combined with generation-based caption information**
  Chan Hur, Dong-hun Lee, Sang-hyo Park, Hyeyoung Park
  KIISE Transactions on Computing Practices, KCI, 2024.
- **Feature Vector Combination on Joint Embedding Space using Captions for Text Video Retrieval**
  Chan Hur, Dong-hun Lee, Sang-hyo Park, Hyeyoung Park
  Korea Computer Congress (KCC), 2023. **(Best paper award)**
- **A Study on the Alternative Method of Video Characteristics Using Captioning in Text-Video Retrieval Model**
  Dong-hun Lee, **Chan Hur**, Hyeyoung Park, Sang-hyo Park
  Journal of Embedded Systems and Applications, KCI, 2022.
- **A study on Video-text Retrieval model using Caption Information**
  Dong-hun Lee, **Chan Hur**, Hyeyoung Park, Sang-hyo Park
  Korea Artificial Intelligence Conference, 2022.

Lecture

Deep Learning and Machine Learning with Python   2023-
- PLACE: Kyungpook National University IT Education Center

Introduction of Generative AI and applications   2024-
- PLACE: Kyungpook National University IT Education Center

Machine Learning 2023-2024
- PLACE: Korea National Open University

Skills

Machine Learning Deep Learning Pytorch, Tensorflow
Knowledge Image recognition, Video understanding, Pattern recognition, Text-video retrieval, Large Lanugage/multimodal model
Language Skills Korean, English