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Education	
Sejong University M.S IN INTELLIGENCE MECHATRONICS ENGINEERING • Overall GPA : 4.5/4.5 • Supervised by Prof. Yukyung Choi	Seoul, South Korea Mar.2023 - Current
 Sejong University B.S IN INTELLIGENCE MECHATRONICS ENGINEERING Hornors: Magna cum laude (Overall GPA : 4.15/4.5) 	Seoul, South Korea Mar.2017 - Feb.2023
Publications	
INTERNATIONAL CONFERENCE	
Probabilistic Vision-Language Representation for Weakly Supervised Temporal Action Localization GEUNTAEK LIM, НYUNWOO КIM, JOONSOO КIM, YUKYUNG CHOI • The 32nd ACM Multimedia (MM 2024) • 26.2 % acceptance rate	Oct, 2024
VVS: Video-to-Video Retrieval with Irrelevant Frame Suppression Won Jo, GEUNTAEK LIM, GWANGJIN LEE, НУИЛЖОО КІМ, ВУИЛGSOO КО, ҮИКҮИЛG СНОІ • The 38th AAAI Conference on Artificial Intelligence (AAAI 2024) • 23.6 % acceptance rate	Mar, 2024
INTERNATIONAL JOURNAL	
Simultaneous Video Retrieval and Alignment Won Jo, GEUNTAEK LIM, YUJIN HWANG, GWANGJIN LEE, JOONSOO KIM, JOUNGIL YUN, JIYOUNG JUNG, YUKYUNG CHOI • IEEE Access • Impact Factor : 3.367 (SCIE)	Mar, 2023
Exploring the Temporal Cues to Enhance Video Retrieval on Standardized CDVA Won Jo, GEUNTAEK LIM, JOONSOO КІМ, JOUNGIL YUN, YUKYUNG CHOI • IEEE Access • Impact Factor : 3.367 (SCIE)	Apr, 2022
Research Experience	
Development of an AI Based Video Search System for Untact Content Production Funded by Institute for Information & communication Technology Planning & evaluation (IITP)	Sejong Univ Apr. 2023 - Current
 Development of multimodal-based neural network technology for accurate video retrieval. Research based on the video-level descriptor with irrelevant frame suppression strategy. Part of this work was summarized in a paper and accepted to AAAI 2024. 	

• Part of this work was summarized in a paper and accepted to AAAI 2024.

FUNDED BY ELECTRONICS AND TELECOMMUNICATIONS DESEADOU INSTITUTE (ETDI)	Anr 2022 Mais 202
 FUNDED BY ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE (ETRI) Development of self-supervised video representation learning for multi-machine vision task. Research based on the representation learning for video via visual and topical consistency. 	Apr. 2023 - Nov. 202
Development of MPEG CDVA-based Video Search Software	Sejong Uni
Funded by Electronics and Telecommunications Research Institute (ETRI)	Apr. 2022 - Nov. 202
 Development of efficient video learning techniques for untrimmed video search. Research based on the selection of regions of interest in videos with weakly supervised manner. This work was summarized in a paper and accepted to IEEE Access. 	
Next generation AI for multi-purpose video search	Sejong Uni
Funded by Institute for Information & communication Technology Planning &	Apr. 2021 - Mar. 202
 EVALUATION (IITP) Development of video search system for multi-purpose content and query support. Research based on the simultaneous video retrieval and alignment for multi-purpose search system. This work was summarized in papers and accepted to IEEE Access and AAAI 2024. 	,
A Study on a Deep Learning Model for Extracting Visual Features by Machine Vision Task	Sejong Uni
iask Funded by Electronics and Telecommunications Research Institute (ETRI)	Apr. 2021 - Nov. 202
 Development of temporal robust video descriptors for content-based video retrieval. Research based on the temporal nested invariance pooling for MPEG CDVA video search framework. This work was summarized in a paper and accepted to IEEE Access. 	, ipi. 2021 - Nov. 202
Patents	
Method and Apparatus of Extracting Video Feature Descriptors with Distractor Frame Suppression YUKYUNG Сног, Won Jo, GEUNTAEK LIM, GWANGJIN LEE, HYUNWoo КIM • Korea patent (applied) No. 10-2023-0177999	Dec. 202
Method and Apparatus of Extracting Video Feature Descriptors with Distractor Frame Suppression YuKyung Choi, Won Jo, Geuntaek Lim, GwangJin Lee, HyunWoo Кім	
Method and Apparatus of Extracting Video Feature Descriptors with Distractor Frame Suppression YuKyung CHoi, Won Jo, Geuntaek Lim, GwangJin Lee, HyunWoo Кім • Korea patent (applied) No. 10-2023-0177999 Video Feature Descriptors Extraction Method and Apparatus for Video Searching YuKyung CHoi, Won Jo, Geuntaek Lim, GwangJin Lee, HyunWoo Кім	Dec. 202 Nov. 202 Jul. 202
 Method and Apparatus of Extracting Video Feature Descriptors with Distractor Frame Suppression YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM Korea patent (applied) No. 10-2023-0177999 Video Feature Descriptors Extraction Method and Apparatus for Video Searching YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM Korea patent (applied) No. 10-2022-0152725 Method and Apparatus for Simultaneous Video Retrieval and Alignment JOONSOO KIM, JOUNGIL YUN, GEUNTAEK LIM, WON JO, YUKYUNG CHOI, YUJIN HWANG 	Nov. 202.
Method and Apparatus of Extracting Video Feature Descriptors with Distractor Frame Suppression YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM • Korea patent (applied) No. 10-2023-0177999 Video Feature Descriptors Extraction Method and Apparatus for Video Searching YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM • Korea patent (applied) No. 10-2022-0152725 Method and Apparatus for Simultaneous Video Retrieval and Alignment	Nov. 202
 Method and Apparatus of Extracting Video Feature Descriptors with Distractor Frame Suppression YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM Korea patent (applied) No. 10-2023-0177999 Video Feature Descriptors Extraction Method and Apparatus for Video Searching YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM Korea patent (applied) No. 10-2022-0152725 Method and Apparatus for Simultaneous Video Retrieval and Alignment JOONSOO KIM, JOUNGIL YUN, GEUNTAEK LIM, WON JO, YUKYUNG CHOI, YUJIN HWANG U.S. patent (applied) No. 18/072,268 Korea patent (applied) No. 10-2022-0087956 	Nov. 202
 Method and Apparatus of Extracting Video Feature Descriptors with Distractor Frame Suppression YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM Korea patent (applied) No. 10-2023-0177999 Video Feature Descriptors Extraction Method and Apparatus for Video Searching YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM Korea patent (applied) No. 10-2022-0152725 Method and Apparatus for Simultaneous Video Retrieval and Alignment JOONSOO KIM, JOUNGIL YUN, GEUNTAEK LIM, WON JO, YUKYUNG CHOI, YUJIN HWANG U.S. patent (applied) No. 18/072,268 	Nov. 202 Jul. 202
 Method and Apparatus of Extracting Video Feature Descriptors with Distractor Frame Suppression YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM Korea patent (applied) No. 10-2023-0177999 Video Feature Descriptors Extraction Method and Apparatus for Video Searching YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM Korea patent (applied) No. 10-2022-0152725 Method and Apparatus for Simultaneous Video Retrieval and Alignment JOONSOO KIM, JOUNGIL YUN, GEUNTAEK LIM, WON JO, YUKYUNG CHOI, YUJIN HWANG U.S. patent (applied) No. 18/072,268 Korea patent (applied) No. 10-2022-0087956 Method and Apparatus of Image Feature Descriptor Extracting For Searching Video 	Nov. 202 Jul. 202
 Method and Apparatus of Extracting Video Feature Descriptors with Distractor Frame Suppression YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM Korea patent (applied) No. 10-2023-0177999 Video Feature Descriptors Extraction Method and Apparatus for Video Searching YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM Korea patent (applied) No. 10-2022-0152725 Method and Apparatus for Simultaneous Video Retrieval and Alignment JOONSOO KIM, JOUNGIL YUN, GEUNTAEK LIM, WON JO, YUKYUNG CHOI, YUJIN HWANG U.S. patent (applied) No. 18/072,268 Korea patent (applied) No. 10-2022-0087956 Method and Apparatus of Image Feature Descriptor Extracting For Searching Video JOONSOO KIM, JOUNGIL YUN, GEUNTAEK LIM, WON JO, YUKYUNG CHOI U.S. patent (applied) No. 18/298,208 	Nov. 202 Jul. 202
 Method and Apparatus of Extracting Video Feature Descriptors with Distractor Frame Suppression YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM Korea patent (applied) No. 10-2023-0177999 Video Feature Descriptors Extraction Method and Apparatus for Video Searching YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM Korea patent (applied) No. 10-2022-0152725 Method and Apparatus for Simultaneous Video Retrieval and Alignment JOONSOO KIM, JOUNGIL YUN, GEUNTAEK LIM, WON JO, YUKYUNG CHOI, YUJIN HWANG U.S. patent (applied) No. 18/072,268 Korea patent (applied) No. 10-2022-0087956 Method and Apparatus of Image Feature Descriptor Extracting For Searching Video JOONSOO KIM, JOUNGIL YUN, GEUNTAEK LIM, WON JO, YUKYUNG CHOI U.S. patent (applied) No. 18/298,208 Korea patent (applied) No. 18/298,208 	Nov. 202 Jul. 202 Jul. 202
 Method and Apparatus of Extracting Video Feature Descriptors with Distractor Frame Suppression YuKyuNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM Korea patent (applied) No. 10-2023-0177999 Video Feature Descriptors Extraction Method and Apparatus for Video Searching YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM Korea patent (applied) No. 10-2022-0152725 Method and Apparatus for Simultaneous Video Retrieval and Alignment JOONSOO KIM, JOUNGIL YUN, GEUNTAEK LIM, WON JO, YUKYUNG CHOI, YUJIN HWANG U.S. patent (applied) No. 18/072,268 Korea patent (applied) No. 10-2022-0087956 Method and Apparatus of Image Feature Descriptor Extracting For Searching Video JOONSOO KIM, JOUNGIL YUN, GEUNTAEK LIM, WON JO, YUKYUNG CHOI U.S. patent (applied) No. 18/298,208 Korea patent (applied) No. 10-2022-0087969 	Nov. 202 Jul. 202 Jul. 202 Sejong Universit
 Method and Apparatus of Extracting Video Feature Descriptors with Distractor Frame Suppression YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM Korea patent (applied) No. 10-2023-0177999 Video Feature Descriptors Extraction Method and Apparatus for Video Searching YUKYUNG CHOI, WON JO, GEUNTAEK LIM, GWANGJIN LEE, HYUNWOO KIM Korea patent (applied) No. 10-2022-0152725 Method and Apparatus for Simultaneous Video Retrieval and Alignment JOONSOO KIM, JOUNGIL YUN, GEUNTAEK LIM, WON JO, YUKYUNG CHOI, YUJIN HWANG U.S. patent (applied) No. 18/072,268 Korea patent (applied) No. 10-2022-0087956 Method and Apparatus of Image Feature Descriptor Extracting For Searching Video JOONSOO KIM, JOUNGIL YUN, GEUNTAEK LIM, WON JO, YUKYUNG CHOI U.S. patent (applied) No. 18/298,208 Korea patent (applied) No. 10-2022-0087969 Teaching Experience Machine Learning and Artificial Intelligence INSTRUCTOR : PROF. YUKYUNG CHOI	Nov. 202 Jul. 202