**KU-HYEUN KO**

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| **Personal Data** | **Researcher** |
|  | Electrical and Computer Engineering (ECE) Research Institute  Ulsan National Institute of Science and Technology (UNIST)  50, UNIST-gil, Ulsan 44919, Republic of Korea   |  |  |  |  | | --- | --- | --- | --- | | **Gender** | Male | **Military Service** | Conscripted Firefighters Agency | | **Mobile** | 010-8562-2561 | **E-mail** | [khko@unist.ac.kr](mailto:khko@unist.ac.kr) | | **Home page** | | <https://kuhyeun-ko.github.io> | | | **Github** | | <https://github.com/kuhyeun-ko> | | |
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| **Education** | **2019.09. - 2021.08. M.S. UNIST** |
|  | Electrical Engineering Thesis: Co-appearance Based Unsupervised Clustering for Person Search Advisor: Prof. Jae-Young Sim |
|  | **2012.03. - 2019.02. B.S. Seoul National University of Science and Technology** |
|  | Electrical and Information Engineering |
|  | **2018.02. - 2018.07. Exchange Student at Czech Technical University in Prague** |
|  | Electrical Engineering |
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| **Research Area** | **Image Processing and Computer Vision** |
|  | Person search (Pedestrian detection, Person re-ID)  Metric learning  Object detection  Unsupervised learning |
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| **Employment History** | **2019.04. - 2019.08.** |
|  | Research Internship in Visual Information Processing Lab., UNIST   * Object detection * Generative models (VAE, GAN) |
|  | **2017.06. - 2017.11.** |
|  | Research Internship in Computer System Architecture Lab.,  Seoul National University of Science and Technology   * K-means clustering, PCA |
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| **International Conferences** | **Context-Aware Unsupervised Clustering for Person Search.**  Byeong-Ju Han\*, **Kuhyeun Ko**\* and Jae-Young Sim, in BMVC, 2021. \* The two authors contributed equally to this work. |
|  | **Trident Person Search Network End-to-End Trainable by Adaptive Gradient Propagation.** |
|  | Byeong-Ju Han, **Kuhyeun Ko** and Jae-Young Sim, in Proc. IEEE ICCV, 2021. |
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| **Domestic Paper** | **물체 검출을 위한 색 변환을 이용한 데이터 증가** |
|  | **고규현**, 심재영, 대한전자공학회 하계종합학술대회, 2020. |
|  |  |
| **Domestic Patent** | **객체 검색 모델 및 그 학습 방법** |
|  | 심재영, **고규현**, 출원번호 10-2020-0166373, 2020.12.02. |
|  |  |
| **Projects** | **Information-coordination Technique Enabling Augmented Reality with Mobile Objects** |
|  | Institute for Information & Communications Technology Promotion (IITP) 2019.09.01. – 2021.08.31. |
|  | * Technical Lead   + Unsupervised person search based on Pytorch   + Object detection based on Pytorch * Results   + One published paper as co-first author at BMVC   + One published paper as second author at IEEE/CVF ICCV   + One published domestic paper as fist author at  대한전자공학회 하계종합학술대회   + One applied domestic patent |
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| **Skills** | **Programming Languages & Frameworks** |
|  | Python, Pytorch Also basic ability with Matlab, Tensorflow |
|  | **Tools & Environments** |
|  | Docker, Git Linux, Windows |
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