

Hyunho Yeo

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RESEARCH INTERESTS	Content-aware Internet Video Delivery Using Deep-learning, Deep-learning based Networked Systems	
EDUCATION	Korea Advanced Institute of Science and Technology (KAIST) Integrated M.S. & Ph.D., in School of Electrical Engineering (Advisor: Prof. Dongsu Han)	FEB. 2018 ~ Present
	Korea Advanced Institute of Science and Technology (KAIST) M.S., in School of Electrical Engineering (Advisor: Prof. Dongsu Han)	FEB. 2017 ~ FEB. 2018
	Korea Advanced Institute of Science and Technology (KAIST) B.S., in School of Electrical Engineering, <i>Magna Cum Laude</i>	FEB. 2012 ~ FEB. 2017
PUBLICATIONS	Conference	
	1. Hyunho Yeo , Youngmok Jung, Jaehong Kim, Jinwoo Shin, and Dongsu Han. “Neural Adaptive Content-aware Internet Video Deliver”. <i>13th USENIX Symposium on Operating Systems Design and Implementation (OSDI 18)</i> . (Acceptance Rate 47/257: 18.2%)	
	Workshop	
	1. Hyunho Yeo , Sunghyun Do, Dongsu Han. “How will Deep Learning Change Internet Video Delivery?”. <i>In Proceedings of the 16th ACM Workshop on Hot Topics in Networks (HotNets 17)</i> . (Acceptance Rate 28/124: 22.5%)	
HONORS AND AWARDS	Kim Choong-Ki Best Research Achievement Award	School of Electrical Engineering, KAIST, 2018
RESEARCH PROJECTS	Deep Learning based Mobile Video Streaming	NOVEMBER 2018 ~ (present)
	<ul style="list-style-type: none">Analyze the limitation of applying super-resolution deep neural networks (DNNs) on commercial smartphones in terms of latency and power-efficiencyEnable neural-enhancing mobile video streaming via tighter integration between a video codec and neural computation	
	Deep Learning based Adaptive Streaming	DECEMBER 2017 ~ OCTOBER 2018
	<ul style="list-style-type: none">Proposed the concept of a content-aware DNN that trains/applies a DNN for each video utilizing guaranteed training accuracy instead of unpredictable testing accuracyProposed a new video delivery method that streams video along with the corresponding content-aware DNNsDeveloped an end-to-end video delivery system that integrates the content-aware approach, DNNs for super-resolution, scalable anytime prediction, and mechanisms for handling device heterogeneity on top of an existing adaptive streaming framework	
	Deep Learning based Internet Video Delivery	JUNE 2017 ~ NOVEMBER 2017
	<ul style="list-style-type: none">Analyzed the limitations of current Internet video deliveryAnalyzed the implications of deep learning on Internet video deliveryDesigned preliminary systems and evaluated performance improvements achievable by deep learning	

INVITED TALKS *NAS: Neural Adaptive Content-aware Internet Video Delivery*
Conference talk at OSDI, October, 2018
Talk at Nvidia AI Conference, July, 2019 (Expected)
How will Deep Learning Change Internet Video Delivery?
Workshop talk at HotNets, November, 2017

COURSES	<i>Recent Advances in Deep Learning (EE807)</i>	AUTUMN 2018
	<i>Advanced Image Restoration and Quality Enhancement (EE838)</i>	AUTUMN 2018
	<i>Advanced Networking and Cloud System (EE817)</i>	SPRING 2018
	<i>Foundation of Big Data Analytics (EE412)</i>	FALL 2017
	<i>Deep Learning and AlphaGo (EE488)</i>	FALL 2017
	<i>Deep Learning for Computer Vision (EE837)</i>	FALL 2017
	<i>Information Security (IS511)</i>	SPRING 2017
	<i>Statistical Learning Theory (EE531)</i>	SPRING 2017
	<i>Network Systems and Security (EE513)</i>	SPRING 2017

PROFICIENT SKILLS Programming Languages: Python, C, C++, UNIX shell scripting, Latex
Deep Learning Frameworks: Tensorflow, Pytorch, Qualcomm SNPE
Languages: Korean (native), English