Soroush Abbasi Koohpayegani

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Education :

BSc. • Computer Science
Iran • Sharif University of Technology
(2013 sep - 2018 Feb)

MSc. • Computer Science
USA • University of Maryland, Baltimore County
(2019 Aug - 2022 Aug)

Ph.D • Computer Science
USA • University of California, Davis
(2022 Aug - Present)

Language :

- **Persian (native)**
- **English**

Research Interest :

- **Self-Supervised Learning**
- **Efficient AI Models**
- **Multimodal AI**

Experience :

University of California, Davis
Computer Vision Research Assistant
(2022 Sept - Present)

Apple
Computer Vision Research Internship
Summer 2022

University of Maryland, Baltimore County
Computer Vision Research Assistant
(2019 Aug - 2022 May)

Microsoft
Computer Vision Research Internship
Summer 2021

Microsoft

Publications :

SimA: Simple Softmax-free Attention for Vision Transformers
Soroush Abbasi Koohpayegani, Hamed Pirsiavash
arXiv 2022

Backdoor Attacks on Vision Transformers
Akshayvarun Subramanya, Aniruddha Saha, Soroush Abbasi Koohpayegani, Ajinkya Tejankar, Hamed Pirsiavash
arXiv 2022

ATS: Adaptive Token Sampling for Efficient Vision Transformers
Mohsen Fayyaz*, Soroush Abbasi Koohpayegani*, Farnoush Rezaei Jafari*, Sunando Sengupta, Hamid Reza Vaezi Joze, Eric Sommerlade, Hamed Pirsiavash, Juergen Gall *equal contribution
*ECCV 2022 (**Oral presentation**)*

Constrained Mean Shift Using Distant Yet Related Neighbors for Representation Learning
Ajinkya Tejankar*, Soroush Abbasi Koohpayegani*, KL Navaneet*,
Kossar Pourahmadi, Akshayvarun Subramanya, Hamed Pirsiavash *equal contribution
ECCV 2022

Consistent Explanations by Contrastive Learning
Vipin Pillai, Soroush Abbasi Koohpayegani, Ashley Ouligian, Dennis Fong, Hamed Pirsiavash
CVPR 2022

Backdoor Attacks on Self-Supervised Learning
Aniruddha Saha, Ajinkya Tejankar, Soroush Abbasi Koohpayegani, Hamed Pirsiavash
*CVPR 2022 (**Oral presentation**)*

ISD: Self-Supervised Learning by Iterative Similarity Distillation
Ajinkya Tejankar*, Soroush Abbasi Koohpayegani*, Vipin Pillai, Paolo Favaro, Hamed Pirsiavash
*equal contribution
ICCV 2021

Mean Shift for Self-Supervised Learning
Soroush Abbasi Koohpayegani*, Ajinkya Tejankar*, Hamed Pirsiavash
*equal contribution
*ICCV 2021 (**Oral presentation**)*.

SimReg: Regression as a Simple Yet Effective Tool for Self-supervised Knowledge Distillation
KL Navaneet, Soroush Abbasi Koohpayegani, Ajinkya Tejankar, Hamed Pirsiavash
BMVC 2021

CompRess: Self-Supervised Learning by Compressing Representations
Soroush Abbasi Koohpayegani*, Ajinkya Tejankar*, Hamed Pirsiavash
*equal contribution
NeurIPS 2020