Bo Liu

Personal Data

RESEARCH INTERESTS: ZERO-SHOT LEARNING, DOMAIN GENERALIZATION, GENERATIVE MODEL ADDRESS | PHONE: 95 ZHONGGUANCUN EAST ROAD, BEIJING, CHINA | +86 15600083933

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EDUCATION

SEP 2017-	PHD DEGREE IN PATTERN RECOGNITION AND INTELLIGENT SYSTEM ADVISOR: PROF. ZHANYI HU&QIULEI DONG
Current	NLPR, Institute of Automation, Chinese Academy of Sciences, Beijing
SEP 2013-	Undergraduate degree in Communication Engineering Gpa: 4.11/5.00
JUL 2017	Wuhan University of Technology, Wuhan

ACADEMIC EXPERIENCE

SEP 2018-	Zero-Shot Learning Institute of Automation, Beijing
Current	BIO-INSPIRED/SEMI-SUPERVISED/GENERATIVE/META-LEARNING METHODS TO TACKLE DOMAIN SHIFT PROBLEM IN ZERO-SHOT LEARNING.
JAN 2020	Domain Shift Problem in 3D Point Clouds Institute of Automation, Beijing
Current	ZERO-SHOT LEARNING INSPIRED METHODS TO SOLVE DOMAIN SHIFT PROBLEM IN 3D SCENES.
Jun 2019-	Bio-Inspired Representation Learning Institute of Neuroscience, Shanghai
SEP 2019	INVESTIGATE REPRESENTATION MECHANISM IN VISUAL CORTEX FOR DEEP REPRESENTATION LEARNING.
FEB 2017-	Bio-Inspired Understanding of Deep Neural Network Institute of Automation, Beijing
DEC 2018	Analyze statistics of DNN' neural responses with tools from neuroscience.

PUBLICATIONS

Liu Bo, Qiulei Dong, Zhanyi Hu, Hardness Sampling for Self-Training Based Transductive Zero-Shot Learning. Accepted by CVPR2021

Liu Bo, Qiulei Dong, Zhanyi Hu, Zero-Shot Learning from Adversarial Feature Residual to Compact Visual Feature. Accepted by AAAl2020

Shuang Deng, Liu Bo, Qiulei Dong, Zhanyi Hu, Rotation Transformation Network: Learning View-Invariant Point Cloud for Classification and Segmentation. Accepted by ICME2021

QIULEI DONG, Liu Bo, ZHANYI HU, NON-UNIQUENESS PHENOMENON OF OBJECT REPRESENTATION IN MODELING IT CORTEX BY DEEP CONVOLUTIONAL NEURAL NETWORK (DCNN). ACCEPTED BY FRONT. COMPUT. NEUROSCI, 2020 (ADVISOR AS 1ST AUTHOR)

QIULEI DONG, **Liu Bo**, Zhanyi Hu, Comparison of IT Neural Response Statistics with Simulations. Accepted by Front. Comput. Neurosci, 2017 (Advisor as 1st author)

Liu Bo, Qiulei Dong, Zhanyi Hu, An Iterative Co-Training Transductive Framework for Zero Shot Learning. Under review in TIP

Liu Bo, Qiulei Dong, Zhanyi Hu, Semantic-diversity transfer network for generalized zero-shot learning via inner disagreement based OOD detector. Under review in KBS

Liu Bo, Qiulei Dong, Zhanyi Hu, Segmenting 3D Hybrid Scenes via Zero-Shot Learning. Under review in IJCAl2021 Liu Bo, Qiulei Dong, Shuang Deng, Zhanyi Hu, Language-Level Semantics Conditioned 3D Point Cloud Segmentation. Under review in ICCV2021

SKILLS AND OTHERS

Skill: Pytorch, tensorflow, sklearn, python, matlab, ubuntu, latex, fluent English reading/writing

Service: PC MEMBER OF AAAl2021, WORKSHOP VOLUNTEER OF ICPR2018

Honor: MERIT STUDENT (2013-2017,2019), EXCELLENT GRADUATE OF WUT, NATION/SCHOOL-LEVEL SCHOLARSHIP