Shipeng Yan

Contact Information	ShanghaiTech University rhyssiyan.com	+86 18621832132 yanshp@shanghaitech.edu.cn

Research Interests Meta Learning, Few-shot Learning, Metric Learning, Computer vision

Education

ShanghaiTech University, Shanghai, China

M.S., School of Information Science and Technology, Jul. 2017 to present

Harbin Institute of Technology, Harbin, China

B.S., School of Electronics and Information Engineering Sept. 2013 to Jun. 2017

Publications

1. **Shipeng Yan.***, Songyang Zhang.* and Xuming He. "Few-shot learning via dual-attention network and semantic embedding." *Submit to European Conference on Computer Vision, 2018.(* denotes equal contribution)*

   We propose a novel meta-learning method for few-shot classification based on two simple attention mechanisms: one is a spatial attention to localize relevant object regions and the other is a task attention to select similar training data for label prediction. We implement our method via a dual attention network and design a semantic-aware meta-learning loss to train the meta-learner network in an end-to-end manner. We validate our model on three few-shot image classification datasets and our approach outperforms the state-of-the-art methods consistently.

Awards

Competition Awards
- The Freescale cup Students Intelligence Car Race SmartCar 1st prize(University)

Student Awards
- Merit student(University)

Research Experience

Research Assistant Sept. 2016 to Jun. 2017
Harbin Institute of Technology
Topics: Radar based detection and tracking
Supervisor: Yang Li, Ph.D

Research Assistant Jul. 2017 to present
VENUS Group,
ShanghaiTech University
Topics: Meta Learning, Few-shot learning
Supervisor: Xuming He, Ph.D

Service

TA Database and Datamining Mar. 2018 to present
ShanghaiTech University

Hardware and Software Skills

Computer Programming:
- C, C++, Matlab, familiar with Python
- familiar with pytorch