

IET Computer Vision

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SPECIAL ISSUE ON: Visual Domain Adaptation and Generalization

Editor-in-Chief: Professor Majid Mirmehdi, University of Bristol, UK

This special issue aims to invite original contributions reporting the latest advances in visual domain adaptation and generalization, to attract interesting utilizations of learning algorithms for particular applications, and to propose new theories and algorithms towards addressing the emerging and long-standing challenges.

Recent successes in visual analysis are accompanied in part by the construction and availability of various different labelled datasets. Most existing visual understanding algorithms are trained and tested on the same dataset. However, since each dataset has its own bias, it is unknown whether these generalize well to new datasets. With the growth of both the number and size of labelled visual datasets, it is becoming more and more important to reveal the relationships among related datasets for better generalization. Domain adaptation has been proposed to reduce the mismatch between the source and target domains. Domain generalization is a relatively new concept, where the target domain sample is not observable but multiple source domain samples are. Although domain adaptation and generalization have been studied for many visual applications, many problems still remain challenging, e.g., how to effectively model the commonly shared information? How to extract and transfer them between heterogeneous domains?

The topics of interest include, but are not limited to:

- Theories for visual domain adaptation and generalization
- Transfer learning in visual analysis
- Multi-task learning in visual recognition
- Multi-view learning in visual recognition
- Multi-label learning for visual data
- Domain generalization algorithms for visual problems
- Label noise problems in visual learning
- Deep representation learning for domain adaptation and generalization
- New applications for visual domain adaptation and generalization

Submit your paper to manuscript submission and peer review site via the following link:

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Publication Schedule:

Submission Deadline:

March 31st, 2018

Publication Date:

March 2019

Guest Editors:

Dr. Qi Wang
Northwestern Polytechnical University
E: crabwq@nwpu.edu.cn

Dr. Jun Yu
Hangzhou Dianzi University, China
E: yujun@hdu.edu.cn

Dr. Tongliang Liu
The University of Sydney
E: tongliang.liu@sydney.edu.au

Dr. Weifeng Liu
China University of Petroleum (East China)
E: liuwf@upc.edu.cn