Special Issue

Transfer Learning Applications for Real-World Imaging Problems 2nd Edition

Message from the Guest Editors

Recent works have focused on incorporating transfer learning into deep visual representations, to combat the problem of insufficient training data. Pre-training CNNs on ImageNet or Places has been the standard practice for other vision problems. However, features learnt in pre-trained models are not perfectly fitted for the target learning task. Using the pre-trained network as a feature extractor or fine-tuning the network have become a frequently used method to learn task-specific features, while extensive efforts have been made to perceive transfer learning itself. Therefore, this Special Issue welcomes new research contributions proposing novel (federated) transfer learning and domain adaptation approaches to real imaging-related problems, such as (but not limited to):

- Medical imaging
- Plant biology
- Microscopy
- Remote sensing
- Hyperspectral imaging
- Video surveillance
- Human rights technology
- COVID-19
- Multi- and cross-modality

These topics solve one (or more) machine learning-related tasks, such as classification, regression, segmentation, detection, etc.

Guest Editors

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Deadline for manuscript submissions

closed (31 October 2023)

About the Journal

Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

Editor-in-Chief

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