Special Issue

Exploring Domain Adaptation in Computer Vision

Message from the Guest Editors

Humans process visual information and transfer knowledge across diverse visual scenarios. Computer vision algorithms are being developed to mimic this adaptability using deep learning. Traditional computer vision methods are limited by their rigidity and require extensive retraining for every unique task, leading to computational inefficiencies. Domain adaptation in computer vision is a pioneering approach designed to bridge these limitations by transferring knowledge from one or multiple source domains to a pertinent target domain. The advent of domain adaptation techniques has equipped computer vision systems with the dexterity to tackle a range of tasks with limited supervision. Cutting-edge techniques, especially in co-training, adversarial learning, and self-training, are injecting fresh impetus into this domain. This Special Issue delves deep into the latest strides in domain adaptation, shining a light on its myriad applications— from static image interpretation to dynamic video analysis. Our goal is to foster a comprehensive understanding, encouraging further research and collaboration in this rapidly evolving intersection of domain adaptation and computer vision.

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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.

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