Special Issue

Symmetry in Computer Vision and Its Applications

Message from the Guest Editors

Computer vision has been one of the fastest-changing and evolving areas of computer science. From the beginning of computer vision research, the key issue of research has been finding good features with some sort of symmetry, as it certainly did in nature. Using this symmetry, you can find better capabilities to detect, classify, or recognize objects in a variety of fields obtained in real environments. Although recent research trends tend to focus on deep learning, the importance of symmetry has not disappeared. Rather, expectations have risen due to the success of computer vision in various fields in recent years, and there are more practical problems to face. While solving these problems powerfully, we would like to see more symmetry being utilized, resulting in better results. In that context, in this Special Issue, we would like to see academic advancements or interesting applications in the field of computer vision that highlights symmetry, including its contribution to image processing applications. Here, symmetry plays an important role: data growth in deep learning; stochastic gradient descent in deep learning, etc.

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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