Special Issue

Applications of Computer Vision and Image Processing in Medicine

Message from the Guest Editor

Recent advances in computer vision and image processing, particularly the evolution of deep learning models, have allowed us to solve many problems considered unsolvable just two decades ago. Medicine has swiftly embraced these breakthroughs, with their adoption being widespread. One of the most prominent applications is in radiology, where computer vision has demonstrated its ability to detect disease with remarkable accuracy by examining X-rays, CT scans and MRIs. Image processing assists pathologists in analyzing tissue samples, dermatologists in diagnosing skin cancer, and ophthalmologists in fundus examinations and retinal scans. Beyond diagnosis, computer vision contributes to the remote monitoring of patients. The ethical dimensions and regulatory frameworks surrounding these technologies are evolving in parallel with their rapid integration into healthcare systems. This Special Issue aims to attract manuscripts at the intersection of healthcare and technology, emphasizing the pivotal role that computer vision and image processing play in the ongoing transformation of medical practices.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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