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New Trends in Deep Learning for Computer Vision

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Message from the Guest Editors

Deep neural networks (DNNs) and their associated learning paradigm deep learning (DL) currently represent key artificial intelligence (AI) paradigms. Multiple studies confirm that DNNs are offering the best solutions in many domains, including automotive, biometrics, robotics, cloud computing, medicine, manufacturing, and smart agriculture, to name just a few.

Humans are known to excel in computer vision (CV) tasks. Artificial NNs are loosely inspired by the human brain, having a hierarchical deep multi-layer structure, and are thus expected to provide relatively similar performances. Current research shows that among the most successful DL applications are those which utilize a wide range of neural architectures and learning algorithms in implementing CV operations, such as semantic segmentation, object detection, tracking, reconstruction, synthesis, prediction, perception, and classification.

Motivated by the fast dynamics of DL for the CV field, you are invited to contribute to a Special Issue of *Electronics* covering recent progress and achievements in utilizing deep learning for computer vision tasks.

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Message from the Editor-in-Chief

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