

Special Issue

Best Practices in Neural Architecture Search

Message from the Guest Editors

As an emerging topic in the field of machine learning, the success of neural architecture search (NAS) has promoted the deployment of effective and efficient (deep) neural networks in various scenarios, and, thus, has gained increasing popularity in both academia and industry. Nevertheless, some challenges remain unsolved for the practice of NAS, e.g., unbalanced/insufficient datasets, privacy protection issues, limits of computational resources (e.g., device memory, computation time, or energy consumption), and highly specialized tasks (e.g., face recognition, medical severity classification, image segmentation). Therefore, this Special Issue is intended for the presentation of the best practices in NAS, to fill the gap between algorithmic research and representative/original applications. Areas relevant to the practice of NAS include, but are not limited to, novel NAS algorithms and applications, end-to-end platforms/pipelines, NAS for healthcare, federated NAS, multi-objective NAS, NAS for generative models and applications thereof, physics-informed NAS, and knowledge-driven NAS.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

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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