Special Issue

Advanced Research in Data-Centric AI

Message from the Guest Editors

The primary focus of machine learning is often on developing models to fit a particular dataset. However, in real-world scenarios, data can often be untidy, and refining models may not be the most effective way to enhance their performance. An alternative approach is to concentrate on improving the dataset itself rather than considering it as a fixed input. Data-Centric AI (DCAI) is an up-and-coming field that deals with techniques which systematically enhance datasets, often leading to notable improvements in practical machine learning applications. The purpose of this Special Issue is to encourage the development of a dynamic and collaborative interdisciplinary community focused on addressing real-world data challenges through DCAI. These challenges involve several areas, such as data acquisition and creation, data labeling, data preprocessing and enhancement, data quality assessment, data debt, and data governance. As many of these domains are still emerging, we endeavor to foster an environment that collates experts to define and shape the DCAI movement to significantly impact the future of AI and ML.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2024)

MDPI

About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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