

Special Issue

Vision-Based AI in the Real World: Data, Robustness and Deployment

Message from the Guest Editors

Recent advances in vision-based artificial intelligence have led to significant progress in visual recognition tasks under controlled settings. However, deploying these models in real-world environments remains challenging. In response, there is a growing shift toward data-centric approaches, emphasizing the critical role of data quality, curation, and governance in building reliable vision systems. At the same time, robustness and generalization have become central concerns. This Special Issue aims to bring together recent advances at the intersection of data-centric AI, robust visual recognition, and real-world deployment. We welcome contributions addressing challenges such as dataset construction and curation, weak and noisy supervision, domain adaptation, multimodal data integration, and real-world evaluation protocols.

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Deadline for manuscript submissions

31 July 2027



Data

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Impact Factor 2.4
CiteScore 5.4



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Message from the Editor-in-Chief

Data is an open access journal that publishes scientific data in a reliable, citable, and accountable manner. Data grants the opportunity to formally share valuable data, for academic credit. It covers a wide range of disciplines in which data is generated so that published data is discoverable and available for wider re-use. The journal has highly accomplished scientists from a variety of disciplines on the editorial board. The publication emphasizes clarity, honesty, quality, and novelty and has a rigorous peer-review process. We strongly encourage you to share your data vision in Data.

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