

Special Issue

Trustworthy Multimodal Vision Models: Generalization, Robustness, and Explainability

Message from the Guest Editors

Modern vision models increasingly integrate multiple data modalities, such as images, text, time-series signals, and sensor inputs, to capture richer semantic representations. However, their performance often degrades under distribution shifts, missing modalities, or unseen environments, and their predictions frequently lack calibrated uncertainty and interpretable reasoning. This Special Issue seeks to advance the development of **trustworthy multimodal vision models** that are not only accurate but also **generalizable**, **robust**, and **explainable**. We welcome original research on **multimodal fusion under partial observability**, **domain generalization**, **uncertainty-aware learning**, **cross-modal explainability**, and **human-aligned validation**. Contributions should demonstrate how trustworthiness is explicitly incorporated into the model architecture, training objective, or inference mechanism. The Special Issue aims to move beyond benchmark-driven accuracy toward models that reliably support decision-making in complex, open-world settings, where safety, transparency, and adaptability are essential.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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