

Special Issue

Trustworthy Decision Intelligence: Data-Centric AI, Foundation Models, and Real-World Impact

Message from the Guest Editors

This Special Issue focuses on the fast-moving shift from “model-centric” research toward decision-oriented, trustworthy AI systems that can be deployed in real services. Recent progress in foundation models, retrieval-augmented generation and privacy-aware collaborative learning is opening new ways to connect heterogeneous data with robust inference and actionable recommendations. At the same time, real deployments expose hard constraints—limited labels, non-IID data, communication overhead and the need for transparency—that demand methods going beyond incremental accuracy improvements. We invite submissions across a broad range of contemporary topics, including (but not limited to) LLM-enabled decision support (grounding, retrieval, tool use, multimodal reasoning), efficient and resilient learning (federated and semi-supervised learning, personalization under heterogeneity, compression and communication efficiency, edge–cloud co-optimization) and trustworthy evaluation (privacy/security, robustness, calibration and uncertainty, interpretability, reproducibility).

Guest Editors

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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