

Special Issue

Machine Learning in Action: Practical Applications and Emerging Trends

Message from the Guest Editors

This Special Issue aims to bridge that gap by showcasing applied ML work across diverse domains, including, but not limited to, healthcare, finance, energy, transportation, industrial processes, and environmental monitoring. We seek contributions that detail the development, deployment, and performance of ML-based solutions in practice. Of particular interest are papers that highlight domain-specific constraints, implementation challenges, data limitations, or integration issues encountered in the field. Although the academic literature is rich in algorithmic and theoretical advances, relatively few publications have systematically documented how these methods perform when embedded in real environments. This Special Issue will contribute a much-needed supplement to the existing body of scholarship by focusing on the transition from research prototypes to functioning systems, emphasizing the lessons learned, contextual adaptation, and long-term maintenance. It will serve as a valuable reference both for practitioners and researchers aiming to understand what it takes to transport ML from the lab to real-world settings.

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