Special Issue

Harvesting the Future: Transforming Agricultural Practices Through AI Application

Message from the Guest Editors

Boosting farm productivity, securing food supplies, and attaining sustainability with limited resources is critical for future agriculture. Rapid AI development offers unique opportunities, driving traditional agricultural transformation and modernization.

With strong data, recognition, and predictive skills, AI spans farm production, management, and sales. Key uses: smart breeding (genetics, variety tweaks), precision farming (irrigation/fertilization), pest early monitoring, smart gear/robots, product checks, supply chain oversight, and market forecasts. AI reshapes agriculture, lifting its precision, efficiency, and sustainability.

This Special Issue, titled "Harvesting the Future: AI Transforms Agriculture", seeks to bring together global agri-researchers, scholars, engineers, and practitioners to share latest AI-in-agri progress, cases, and trends. We hope it builds a cross-disciplinary platform, fostering knowledge sharing, speeding up AI's farm use, and solving global agri-challenges.

We look forward to your contributions.

Guest Editors

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