

Special Issue

Intelligent Agricultural Seeding Equipment

Message from the Guest Editor

Modern agriculture faces challenges such as labor shortages and the urgent need for efficient, sustainable resource use. Traditional sowing methods often lack precision, uniformity, and adaptability, leading to uneven crop emergence, reduced yields, and lower productivity. To address these issues, intelligent seeding technologies are increasingly vital for enhancing efficiency, reducing waste, and supporting high-quality crop production. Smart seeding systems integrate advanced tools like sensors, IoT connectivity, AI algorithms, and automated controls. They adjust seeding depth and spacing in real time according to soil and crop conditions, minimize seed and fertilizer waste, and collect valuable data for data-driven farm management, and reduce the need for manual labor. This Special Issue aims to highlight innovations and progress in smart seeding technologies and their role in precision agriculture. We invite original research, reviews, and perspectives on interdisciplinary approaches, including mechanical design, automation, data analysis, and applications across field and specialty crops.

Guest Editor

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