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Precision Agriculture Technology, Benefits & Application

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Message from the Guest Editors

Precision agriculture, also known as "site-specific farming", is an agricultural approach that uses digital technology to optimize agricultural management. Relying on the collection and analysis of detailed data to make informed decisions and improve the efficiency of agricultural practices, precision agriculture aims to maximize crop yields, reduce costs, reduce waste of natural resources, and minimize environmental impacts. Some of the key elements of precision agriculture include: data collection; data analysis; site-specific decision-making; efficient resource use; real-time monitoring; and advanced technologies. Precision agriculture aims to make agriculture more efficient, sustainable, and profitable through the application of advanced technologies and data analysis to enable informed decision making. This is especially important in a world where agricultural production needs to meet growing demands for food, while also being mindful of conserving natural resources and reducing environmental impacts.



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Message from the Editor-in-Chief

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