

Special Issue

Site-Specific Weed Management (SSWM): Integrating Weed Population Dynamics with Information-Communications Technologies (ICTs)

Message from the Guest Editors

ICTs are currently being used to empower site-specific weed management (SSWM). Site-specific weed management is based on the fact that weed populations are commonly irregularly distributed within crop fields, and it implies applying chemical and/or physical control measures only where and when they are needed. Currently, the use of AI models allows for the integration of photogrammetry or image analysis to establish databases for developing algorithms that enable weed management using automated or robotic techniques to distinguish weeds from crops. Both remote sensing (satellite) and unmanned aerial vehicles (UAVs) are being used to collect data at different spatial scales. The integration of both remote and proximal datasets to train and test AI algorithms is a novel route towards more precise and optimized management decisions. In this Special Issue, we invite researchers to contribute original researches, reviews, and opinion pieces covering all topics related to site-specific weed management, weed population dynamics, and ICTs.

Guest Editors

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Deadline for manuscript submissions

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Editor-in-Chief

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