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*Special Issue Reprint*

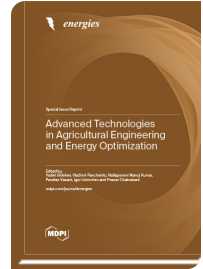
## **Advanced Technologies in Agricultural Engineering and Energy Optimization**

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ISBN 978-3-7258-0920-2 (Hardback)

ISBN 978-3-7258-0919-6 (PDF)



The use of renewable energy plays an important role in agriculture, where technologies are also being improved from year to year; agricultural production is growing, and machinery and systems are becoming more autonomous and robotic, which is no longer possible without complex computing, optimization, planning, and working with large amounts of data. Nowadays, a large amount of unstructured heterogeneous data fuels the demand to extract useful insights in an automatic, reliable, and scalable way. The agriculture sector, however, is historically less receptive to innovation and lags behind the implementation of contemporary solutions, which defines the relevance of this Special Issue. This reprint covers high-quality papers from academics and industry-related researchers in the areas of power supply in rural areas, biofuels and renewable energies used in agriculture, energy efficiency and conservation in agriculture, agricultural robotic applications, livestock production, application of electrophysical impact on agricultural objects, technologies in harvesting and seed machinery, solutions for digital and precision agriculture, applied mathematics, environmental bioengineering, machine learning, artificial intelligence, pattern recognition, data mining, multimedia processing, and big data to show the most recently advanced



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