Topical Collection

Research Progress of Agricultural Machinery Testing

Message from the Collection Editors

The first tests of agricultural machines were carried out by official institutions accredited by the US government in 1919. These tests have been instrumental in the modernization of agriculture, aiming for greater efficiency, comfort, durability, and safety of agricultural machines. Other benefits of testing include enabling greater versatility and better quality of operations through the introduction of new technologies. These technologies make rural work more attractive by increasing machine performance, resulting in greater productivity on farms compared to manual labor. One of the main concerns is the energy efficiency of these machines, as well as the economy of human resources and inputs. In this context, the testing of agricultural machines is essential to obtain information and data that can be translated into practical knowledge to optimize energy consumption, inputs, and human resources. Therefore, this Special Issue aims to present the state of the art in this area of knowledge related to testing agricultural machinery. It includes updated bibliographical reviews adhering to the theme, as well as scientific articles presenting innovative results.

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AgriEngineering

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 4.7

mdpi.com/si/166209

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