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Design, Optimization and Analysis of Agricultural Machinery

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With the growing population, the challenges imposed by the EU Green Deal and Farm2Fork strategies are pushing farmers to increase the productivity and efficiency of their practices. In this context, the design, optimization and analysis of agricultural machinery are key topics that are currently being addressed by scholars and major world producers in the sector. These topics cover the applications of engineering principles to develop, improve and evaluate machines used in the agricultural sector. These machines include tractors, harvesters, planters and other equipment used to plant, harvest and process crops. It is necessary to promote research and the dissemination of results in this field, specifically concerning technologies for which their efficiency, safety and environmental impacts could be improved through methods such as the use of alternative fuels, innovative transmissions and traction devices, machinery electrification, as well as precision and digital farming technologies.

This Special Issue focuses on the role that agricultural mechanization plays in the development of a more efficient, safe and sustainable agricultural sector. Thus, it collects a high-quality, interdisciplinary research in a variety of areas, such as engineering design, safety and health, robotics and automation, agronomy, as well as field data collection and analysis.

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