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Application of Mechatronics in Agriculture

Guest Editors:

Dr. Sulaymon Eshkabilov
Department of Agricultural and Biosystems Engineering, North Dakota State University, Fargo, ND 58108, USA

Dr. Marcello Chiaberge
1. Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy
2. PIC4SeR Centre Coordinator, 10141 Torino, Italy

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Message from the Guest Editors

The applications of mechatronic systems and autonomous machines have permeated many domains of agriculture. Autonomously operating machines help meet labor shortages and enhance agricultural productivity, the sustainability of economic development, and the growth of farms.

Due to their accuracy and energy efficiency, autonomously operating unmanned machines can significantly increase quality and quantity in agricultural production. Moreover, they can help curtail GHG emissions and the negative effects of fertilizers.

Several potentially challenging issues exist in developing and implementing autonomously driven unmanned vehicles. Sensing the surrounding environment and controlling systems in the face of these uncertainties pose significant challenges to using autonomously driven vehicles.

This Special Issue aims to discover, elaborate, and share the different scientific studies and development methodologies addressing challenges in employing autonomously operating machines and systems applying mechatronic system development principles to enhance agricultural production. We invite all researchers to submit their findings in the study of mechatronics in agriculture.

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Editor-in-Chief

Prof. Dr. Les Copeland
Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

Message from the Editor-in-Chief

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Agriculture Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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