



# Mechatronics and Intelligent Systems for Off-road Vehicles

*Francisco Rovira Más, Qin Zhang, Alan C. Hansen*

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Rapid developments in electronics over the past two decades have induced a move from purely mechanical vehicles to mechatronics design. Recent advances in computing, sensors, and information technology are pushing mobile equipment design to incorporate higher levels of automation under the novel concept of intelligent vehicles. *Mechatronics and Intelligent Systems for Off-road Vehicles* introduces this concept, and provides an overview of recent applications and future approaches within this field. Several case studies present real examples of vehicles designed to navigate in off-road environments typically encountered by agriculture, forestry, and construction machines. The examples analyzed describe and illustrate key features for agricultural robotics, such as automatic steering, safeguarding, mapping, and precision agriculture applications.

The eight chapters include numerous figures, each designed to improve the reader's comprehension of subjects such as:

- automatic steering systems;
- navigation systems;
- vehicle architecture;
- image processing and vision; and
- three-dimensional perception and localization.

*Mechatronics and Intelligent Systems for Off-road Vehicles* will be of great interest to professional engineers and researchers in vehicle automation, robotics, and the application of artificial intelligence to mobile equipment; as well as to graduate students of mechanical, electrical, and agricultural engineering.

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