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## Robotics and automation for improving agriculture

Edited by Professor John Billingsley  
University of Southern Queensland, Australia



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### About the book

Robotics has great potential in improving productivity and precision in agriculture. The book reviews advances in technologies such as machine vision and control systems, as well as applications from crop planting, fertilisation, pest and weed management to livestock production.

### About the editor

**Dr John Billingsley** is Professor of Mechatronic Engineering at the University of Southern Queensland, Australia. He is a Fellow of the IET (UK), past Fellow of Engineers Australia as well as a Senior Member of the IEEE (USA). Professor Billingsley has published widely on control theory and robotics.

### Robotics and automation for improving agriculture

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8. The use of agricultural robots in weed management and control: *Brian Steward, Jingyao Gai and Lie Tang, Iowa State University, USA*

**“The challenges of robotics and automation dealt with in this book are pivotal to progressing this area of biosystems engineering and technology development in agriculture. In particular, the international range of expert knowledge in these chapters creates a key reference and a scientific basis for the systems-oriented and interdisciplinary approach we need in this area.”**

*Professor Claus Grøn Sørensen, former President of EurAgEng,  
Head of Research Unit and Smart Farming Centre, Aarhus University, Denmark*