

# Special Issue

## Agriculture Robotics

### Message from the Guest Editor

Agriculture is one of the oldest and most important industries human civilization has ever established. Continuing advancement in agricultural mechanization and automation technologies has led the agriculture into an era of robotic farming era. The objective of this Special Issue is to promote a deeper understanding of major conceptual and technical challenges and facilitate spreading of recent breakthroughs in agricultural robotics. Topics of interest include (but are not limited to):

- Sensing technologies for situation awareness in agricultural applications

- Control strategies for robot manipulation in agricultural applications

- Automatic guidance of robotic vehicle in agriculture sites

  - UASs/drones in agriculture

  - Robotics for crop production

  - Robotics for greenhouse and vertical farming systems

- Machine learning and artificial intelligence in agriculture

Prof. Dr. Qin Zhang

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### Guest Editor

Prof. Dr. Manoj Karkee

Biological Systems Engineering Department, Center for Precision & Automated Agricultural Systems, Washington State University, Pullman, WA, USA

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### Deadline for manuscript submissions

closed (31 August 2017)



## Robotics

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CiteScore 7.7



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## About the Journal

### Message from the Editor-in-Chief

It is my great pleasure to welcome you to our open access journal, *Robotics*, which is dedicated to both the foundations of artificial intelligence, bio-mechanics and mechatronics, and the real-world applications of robotic perception, cognition and actions. The 21st century is the robotics century and intelligent robots will change our lifestyle forever. Let us work together toward the realization of intelligent robots step by step.

It is great fun to create intelligent robots and imagine their practical applications. *Robotics* is now ready to serve you in the long journey towards such a goal.

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### Editor-in-Chief

Prof. Dr. Marco Ceccarelli

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