



## Field Robotics and Artificial Intelligence (AI)

Guest Editors:

**Dr. Robert Ross**

Department of Engineering, La  
Trobe University, Melbourne, VIC  
3086, Australia

**Dr. Alex Stumpf**

Department of Engineering, La  
Trobe University, Melbourne, VIC  
3086, Australia

Deadline for manuscript  
submissions:

**30 September 2024**

### Message from the Guest Editors

Dear Colleagues,

The use of robotics and artificial intelligence to solve problems, improve safety and yield new insights across a growing number of application domains is a major global trend. The diverse field of robotics applications is expanding, and ranges from medicine and agriculture to condition assessment and factory floors. Recent advances in sensor technologies, along with on-board processing resources, have enabled the application of many robotics with higher levels of autonomy and intelligent decision making. The focus of this Special Issue is to highlight how researchers employ robotics and/or artificial intelligence in the field to address some of these key application domains.

This Special Issue will act as a repository for state-of-the-art research on the use, breadth and implementation of robotics to address real-world problems across different domains. The repository will supplement existing literature by demonstrating and evaluating the use of robots in the field to demonstrate the implementation and use of robotics in contrast to simply theoretical models.





# big data and cognitive computing



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Min Chen

School of Computer Science and  
Engineering, South China  
University of Technology,  
Guangzhou 510641, China

## Message from the Editor-in-Chief

*Big Data and Cognitive Computing (BDCC)* is a scholarly online journal which provides a platform for big data theories with emerging technologies on smart clouds and exploring supercomputers with new cognitive applications. It is a peer-reviewed, open access journal that publishes high quality original articles, reviews and short communications. The primary aims of this journal are to encourage contributions of high quality scientific papers relating to data management and analytics in industry, such as manufacturing, healthcare, education, media and business, data mining, and cognitive science. There is no restriction on the maximum length of the papers.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [ESCI \(Web of Science\)](#), [dblp](#), [Inspec](#), [Ei Compendex](#), and [other databases](#).

**Journal Rank:** JCR - Q1 (Computer Science, Theory and Methods) / CiteScore - Q1 (Management Information Systems)

## Contact Us

---

*Big Data and Cognitive Computing*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/BDCC](http://mdpi.com/journal/BDCC)  
[bdcc@mdpi.com](mailto:bdcc@mdpi.com)  
[X@BDCC\\_MDPI](#)