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Advances in Intelligent Robotics and Collaborative Automation

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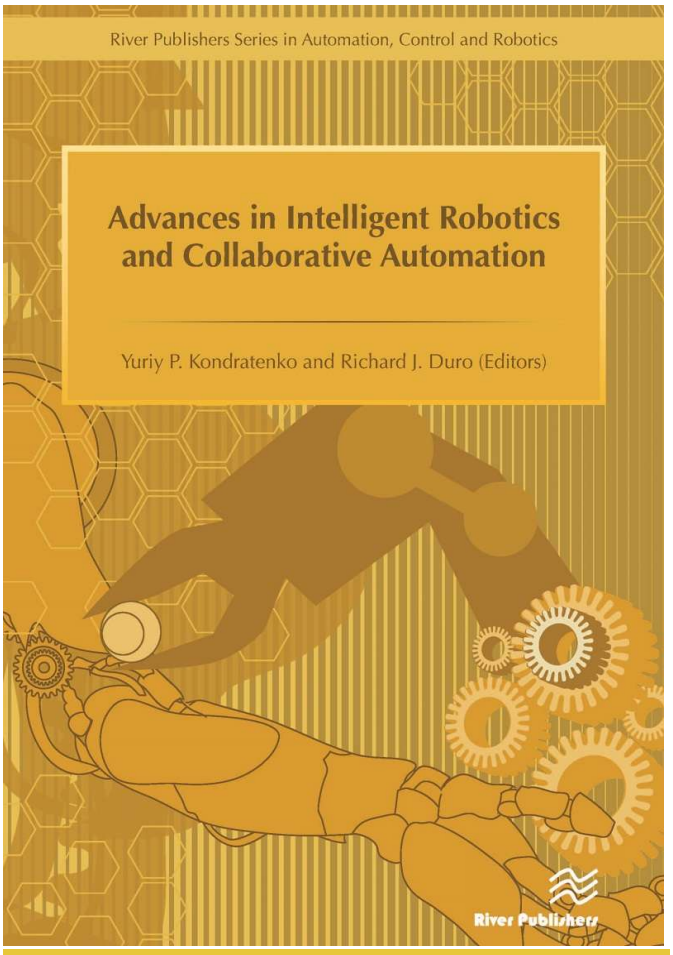
This book provides an overview of a series of advanced research lines in robotics as well as of design and development methodologies for intelligent robots and their intelligent components. It represents a selection of extended versions of the best papers presented at the Seventh IEEE International Workshop on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications IDAACS 2013 that were related to these topics. Its contents integrate state of the art computational intelligence based techniques for automatic robot control to novel distributed sensing and data integration methodologies that can be applied to intelligent robotics and automation systems. The objective of the text was to provide an overview of some of the problems in the field of robotic systems and intelligent automation and the approaches and techniques that relevant research groups within this area are employing to try to solve them.

The contributions of the different authors have been grouped into four main sections:

- Robots
- Control and Intelligence
- Sensing
- Collaborative automation

The chapters have been structured to provide an easy to follow introduction to the topics that are addressed, including the most relevant references, so that anyone interested in this field can get started in the area.



River Publishers Series in Automation, Control and Robotics

ISBN: 9788793237032
e-ISBN: 9788793237049
Available From: May 2015
Price: € 90.00 $ 48.99

KEYWORDS:
robotics, intelligent systems, distributed sensing, collaborative automation.

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