

Studies in Computational Intelligence

Volume 604

Series editor

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Anis Koubâa · J. Ramiro Martínez-de Dios
Editors

Cooperative Robots and Sensor Networks 2015

 Springer

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ISSN 1860-949X ISSN 1860-9503 (electronic)
Studies in Computational Intelligence
ISBN 978-3-319-18298-8 ISBN 978-3-319-18299-5 (eBook)
DOI 10.1007/978-3-319-18299-5

Library of Congress Control Number: 2015938090

Springer Cham Heidelberg New York Dordrecht London
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Printed on acid-free paper

Springer International Publishing AG Switzerland is part of Springer Science+Business Media
(www.springer.com)

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About the Book

In the recent years, different technological fields have emerged in the context of ubiquitous systems. Technologies such as personal mobile computing, camera networks, wearable computing, Radio-Frequency IDentification (RFID) devices, or Wireless Sensor Networks (WSN) have been integrated with a wide range of existing technologies such as robotics. The cooperation between mobile robots and sensor networks offer unprecedented possibilities in a wide range of problems and applications. Interoperability between them, from intrinsically different technological fields and broadly understood heterogeneous, pose key problems that are still far from being solved.

The book you have in your hands compiles some of the latest research in cooperation between robots and sensor networks. Structured into 12 chapters, this book addresses fundamental, theoretical, implementation, and experimentation issues. Chapters are organized into four parts, namely Multi-Robot Systems, Data Fusion and Localization, Security and Dependability, and Finally Mobility.

We hope that this book may spark innovative ideas and improvements in your research and applications.