

Acknowledgements

C.20 Inertial Sensors, GPS, and Odometry

by Gregory Dudek, Michael Jenkin

We would like to thank Sarah Jenkin for her help with the figures.

F.42 Industrial Robotics

by Martin Hägele, Klas Nilsson, J. Norberto Pires

The authors are indebted to James Trevelyan of The University of Western Australia for his valuable assistance.

F.44 Aerial Robotics

by Eric Feron, Eric N. Johnson

The authors would like to thank the reviewers for their thorough and useful comments during the development of this chapter. They would also like to acknowledge the support of the US Defense Advanced Research Projects Agency, the US Air Force Office of Scientific Research, and the US Office of Naval Research for their support.

F.48 Robotics in Hazardous Applications

*by James P. Trevelyan, Sung-Chul Kang,
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James Trevelyan acknowledges Surya Singh for detailed suggestions on the original draft, and would also like to thank the many unnamed mine clearance experts who have provided guidance and comments over many years, as well as Prof. S. Hirose, Scanjack, Way Industry, and Total Marine Systems for providing photographs.

William R. Hamel would like to acknowledge the US Department of Energy's Robotics Crosscutting Program and all of his colleagues at the national laboratories and universities for many years of dealing with remote hazardous operations, and all of his collaborators at the Field Robotics Center at Carnegie Mellon University, particularly James Osborn, who were pivotal in developing ideas for future telerobots.

Sungchul Kang acknowledges Changhyun Cho, Woosub Lee, Dongsuk Ryu at KIST, Korea for their providing valuable documents and pictures. He also appreciates Munsang Kim for his leading projects that have produced many of research achievements related to Sect. 48.3 enabling technologies.

F.52 Medical Robotics

*and Computer-Integrated Surgery
by Russell H. Taylor, Arianna Menciassi,
Gabor Fichtinger, Paolo Dario*

We would like to thank the many colleagues, including clinicians, fellow engineering researchers, and students with whom we have worked over the years. These experiences have provided the essential background that enabled us to write this chapter. In addition, Drs. Dario and Menciassi extend special thanks to their colleagues at the CRIM Laboratory for help in identifying appropriate citations from the rapidly expanding literature within subfields of medical robotics. Drs. Taylor and Fichtinger gratefully acknowledge the support of numerous US Government agencies and other entities that have provided partial funding for many of the research results reported here, with special thanks to the National Science Foundation for generous support of the Engineering Research Center for Computer-Integrated Surgical Systems and Technology under cooperative agreement EEC9731478. Finally, we would like to thank the reviewers for their many constructive comments and suggestions, which have greatly improved this chapter.

G.61 Evolutionary Robotics

by Dario Floreano, Phil Husbands, Stefano Nolfi

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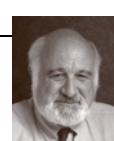


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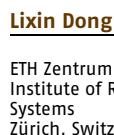
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For biographical profile, please see the section “About the Part Editors” on page XXII.

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Chapter A.2

For biographical profile, please see the section "About the Part Editors" on page XXI.

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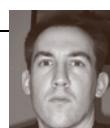
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Chapter F.45

Brian Wilcox is at the Jet Propulsion Laboratory and is the Principal Investigator for the ATHLETE robot. He was the Supervisor of the Robotic Vehicles Group at JPL from 1985–2005, leading the development of rover technology leading to the Sojourner rover in 1997 and subsequent Mars rovers. He holds six patents and has received the NASA Exceptional Engineering Achievement Medal.

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Alexander Zelinsky**Chapter F.51**

For biographical profile, please see the section "About the Part Editors" on page XXII.

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Part A Robotics Foundations

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