

# Preface

*Field and Service Robotics (FSR)* is the leading single-track conference on applications of robotics in challenging environments. Its goal is to report and encourage the development and experimental evaluation of field and service robots, and to generate a vibrant exchange and discussion in the community. Field robots are non-factory robots, typically mobile, that operate in complex and dynamic environments: on the ground (Earth or other planets), under the ground, underwater, in the air or in space. Service robots are those that work closely with humans to help them with their lives. The first FSR was held in Canberra, Australia, in 1997. Since that first meeting, FSR has been held roughly every 2 years, cycling through Asia, the Americas and Europe. This book presents the results of the 11th edition of *Field and Service Robotics*, FSR 2017, held in Zurich, Switzerland, from 12 to 16 June 2017. This was the first time it has been held in Canada. This year we had 74 submitted papers from which we accepted 21 for oral presentations and 24 for interactive presentations. FSR 2017 was organized by Marco Hutter and Roland Siegwart, ETH Zurich, together with the regional chairs Tim Barfoot, Cedric Pradalier and Kazuya Yoshida. The organizers would like to thank the International Program Committee that generously provided their time to carry out detailed reviews of all the papers, namely Peter Corke, Carrick Dettweiler, Philippe Giguere, Genya Ishigami, Michael Jakub, Alonzo Kelly, Jonathan Kelly, Ross Knepper, Simon Lacroix, Christian Laugier, Josh Marshall, David P. Miller, Keiji Nagatani, Juan Nieto, Steve Nuske, François Pomerleau, Cédric Pradalier, Jonathan Roberts, Miguel Angel Salichs, Sanjiv Singh, Gaurav Sukhatme, Salah Sukkarieh, Takashi Tsubouchi, Arto Visala, Kazuya Yoshida and Uwe Zimmer. Additional thanks go to the keynote speakers Salah Sukkarieh, Terry Fong, Jean-Christophe Zufferey and Aparna Rao.

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