

Preface

The International Conference on Interactive Collaborative Robotics (ICR) was established as a satellite event of the International Conference on Speech and Computer (SPECOM) by St. Petersburg Institute for Informatics and Automation of the Russian Academy of Science (SPIIRAS, St. Petersburg, Russia), the Technical University of Munich (TUM, Munich, Germany), and Tomsk State University of Control Systems and Radioelectronics (TUSUR, Tomsk, Russia) in 2016.

The conference gathered together experts from different communities to discuss challenges facing human and robot collaboration in industrial, social, medical, educational, and other areas. Models of collaborative behavior of one or multiple robots with physical interaction with people in operational environment equipped embedded sensor networks and cloud services in conditions of uncertainty and environmental variability are the main issues of the conference.

ICR 2017 was the second event in the series and this time it was organized by the University of Hertfordshire, in cooperation with SPIIRAS, TUM, and TUSUR. The conference was held during September 12–16, 2017 at the College Lane campus of the University of Hertfordshire in Hatfield, UK, 20 miles (30 kilometers) north of London, just 20 minutes by train from London’s King’s Cross station.

This volume contains a collection of submitted papers presented at the conference, which were thoroughly reviewed by members of the Program Committee consisting of around 20 top specialists in the conference topic areas. Theoretical and more general contributions were presented in common (plenary) sessions. Problem oriented sessions as well as panel discussions then brought together specialists in limited problem areas with the aim of exchanging knowledge and skills resulting from research projects of all kinds.

Last but not least, we would like to express our gratitude to the authors for providing their papers on time, to the members of the conference reviewing team and Program Committee for their careful reviews and paper selection, and to the editors for their hard work preparing this volume. Special thanks are due to the members of the Local Organizing Committee for their tireless effort and enthusiasm during the conference organization. We hope that you benefitted from the event and that you also enjoyed the social program prepared by the members of the Organizing Committee.

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Andrey Ronzhin
Gerhard Rigoll
Roman Meshcheryakov

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Ronzhin, A.; Rigoll, G.; Meshcheryakov, R. (Eds.)

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