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Interactive Collaborative Robotics

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Proceedings

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ICR 2019 Preface

The 4th International Conference on Interactive Collaborative Robotics (ICR) was organized as a satellite event of the 21st International Conference on Speech and Computer (SPECOM) by St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences (SPIIRAS, St. Petersburg, Russia) and Technical University of Munich (TUM, Munich, Germany).

Challenges of human–robot interaction, robot control and behavior in social robotics and collaborative robotics, as well as applied robotic and cyber-physical systems are mainly discussed during the conference.

ICR 2019 was hosted by the Boğaziçi University in cooperation with SPIIRAS and TUM. The conference was held during August 20–25, 2019 at Boğaziçi University, Istanbul, one of the top research universities in Turkey, established in 1863.

During the conference an invited talk, “Animating Industrial Robots for Human-Robot Interaction,” was given by Prof. Erol Sahin (KOVAN Research Lab, Computer Engineering Department, Middle East Technical University, Ankara, Turkey).

This volume contains a collection of submitted papers presented at the conference, which were thoroughly reviewed by members of the Program Committee consisting of more than 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 will benefit from these proceedings.

August 2019

Andrey Ronzhin
Gerhard Rigoll
Roman Meshcheryakov

Organization

The conference ICR 2019 was organized by the Boğaziçi University (BU, Istanbul, Turkey) in cooperation with St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences (SPIIRAS, St. Petersburg, Russia) and the Technical University of Munich (TUM, Munich, Germany). The conference website is located at: <http://www.specom.nw.ru/icr2019/>.

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