

Welcome Message

CRV 2022

Welcome to Toronto, Ontario, and the Nineteenth Conference on Robots and Vision (CRV 2022)! This conference series provides a high-quality forum for the international and Canadian computer and robot vision communities to share their work. After two virtual conference years, the ease of the Covid-19 situation has enabled a hybrid form with the option to socialize and attend the live-streamed sessions together at the University of Toronto. Our conference is sponsored by the Canadian Image Processing and Pattern Recognition Society / Association Canadienne de Traitement d'Images et de Reconnaissance des Formes (CIPPRS/ACTIRF). CIPPRS/ACTIRF is a special interest group of the Canadian Information Processing Society (CIPS) and is the official Canadian member of the governing board of the International Association for Pattern Recognition (IAPR). The goal of CIPPRS/ACTIRF is to promote research and development activities in Computer Vision, Robot Vision, Image Processing, Medical Imaging and Pattern Recognition. The papers here have each been peer-reviewed by a 59 member Program Committee comprised of internationally recognized computer and robot vision researchers. We wish to thank the Program Committee for the careful and professional reviews they provided, despite a short reviewing period. This year we received a total of 53 submissions, from which 30 papers were accepted. Of these 30, 12 were selected for oral presentation and 18 for poster presentations. The CRV conference proceedings are published by the IEEE Computer Society Conference Publishing Services (CPS) and will be available online via IEEE Xplore.

We are delighted to welcome three outstanding keynote speakers this year: Prof. Lourdes Agapito from the University College London, Prof. Maurice Fallon from the University of Oxford, and Prof. Peter Corke from the Queensland University of Technology. Also, we are continuing the invited Symposium Speaker Series this year, featuring 6 leading international computer vision and robotics researchers. CRV recognizes stellar research and contributions through multiple awards, including the CIPPRS Lifetime Achievement Award - Research, the CIPPRS Lifetime Achievement Award - Community, the Best Paper Award - Computer Vision, and the Best Paper Award - Robotics. Winners will be announced at the conference awards ceremony. Many people collaborated to organize this meeting. We thank Michael Jenkin of York University for serving on the Awards Committee and Steven Waslander of the University of Toronto for serving on the Awards Committee and CIPPRS Treasurer besides the general chair role. We also thank CIPPRS Secretary Faisal Qureshi of Ontario Tech University, and CIPPRS President Michael Jenkin of York University for their ongoing guidance and support. Finally, and most importantly, many thanks to the authors who contributed exciting research to CRV 2022. We thank the attendees of CRV for their active participation in shaping the first hybrid CRV conference. We hope to meet everyone in person next year!

Hsiu-Chin Lin, *McGill University*
Helge Rhodin, *University of British Columbia*
CRV 2022 Program Co-Chairs