PREFACE

It is a great pleasure to welcome you to 2021 5th International Conference on Robotics and Machine Vision (ICRMV 2021), which will be held on February 26-28, 2021 in virtual form.

The safety and well-being of participants is always of paramount importance. This year, considering the COVID-19 pandemic and the severe travel restrictions worldwide, after careful consideration and following some participants’ suggestions, the organizing committees decided to convert ICRMV 2021 into a fully virtual conference. It has been a very difficult decision, but it has also given to all of us an opportunity to innovate and to test a new style of conference in a safer and convenient way in this special period. We hope ICRMV 2021 can provide an online platform for every participant to communicate and to share ideas about Robotics and Machine Vision.

The volume includes 12 selected papers which were submitted to the conference from universities, research institutes and industries. Much of the credit of the success of the conference is due to topic coordinators who have devoted their expertise and experience in promoting and in general co-ordination of the activities for the organization and operation of the conference. The coordinators of various session topics have devoted a considerable time and energy in soliciting papers from relevant researchers for presentation at the conference. On behalf of the Organizing Committee, we wish to thank all the keynote speakers and authors of selected papers for their outstanding contributions. We would also like to thank members of the organizing committee, anonymous reviewers and volunteers for their great efforts. Without their contribution, dedication and commitment, we would not have achieved so much.

We hope this success can develop into persistent success in future years, involving attendees and speakers from all corners of the globe and all countries. And we believe with the strong support of all participants, professors, scholars, etc., this conference will be more distinctive. We sincerely hope you have an excellent time during ICRMV 2021. Thank you all for your efforts to make this conference a success.

ICRMV 2021 Organizing Committee
February 26-28, 2021
Statement of Peer Review

All papers published in this volume of Journal of Physics: Conference Series have been peer reviewed through processes administered by the proceedings Editors. Reviews were conducted by expert referees to the professional and scientific standards expected of a proceedings journal published by IOP Publishing.

Virtual Disclaimer

Affected by COVID-19, it’s pity that 2021 5th International Conference on Robotics and Machine Vision (ICRMV 2021) has to be shifted into full remote / online conference from February 26-28, 2021 by “ZOOM” application. Comparing with postponement, remote style is the better option for all committee members and participants of ICRMV 2021. We have around 40 participants from all over the world to attend this online conference and they are from Singapore, France, China and more than 6 countries and different regions... We arranged all participants to test their requirements on zoom application on Feb. 26 then attend the Keynote session and finish the oral presentation on the rest days. There are four sections on oral presentation:

Session 1---Mechanical Engineering and Intelligent Robot;
Session 2---Mechanical Design and Manufacturing Engineering;
Session 3---Control Science and Engineering;
Session 4---Machine Vision and Information Engineering;

Each section has 9 to 10 papers related to a topic. The variety of research topics presented in the ICRMV 2021 conference and novelty exhibited in the papers published in the conference proceeding. Finally, we'd like to express our gratitude to thank all members of the conference committees and authors for their dedication and contribution to the conference.