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Preface of ICRAIC 2021

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Preface of ICRAIC 2021

Intelligent robots show great demand for scientific research and industrialization in all walks of life. At present, robots have made breakthroughs in perception and motion control, but it will take some time for robots to fully serve autonomously. ICRAIC 2021 will focus on the development and integration of robot, digitalization, automation, and AI technologies, inviting well-known experts and scholars at home and abroad, as well as scientific researchers and industry practitioners in the field of intelligent control, to jointly discuss the cutting-edge technologies of robots and their new applications in different industries, and build a robot innovation ecosystem.

The International Conference on Robotics Automation and Intelligent Control (ICRAIC2021) is organized by Central South University, University of Chinese Academy of Sciences, and Nanjing Normal University and held virtually online due to the COVID-19 pandemic on November 26th-28th, 2021. ICRAIC2021 brought together researchers, developers, and practitioners worldwide in Robotics Automation and Intelligent Control.

ICRAIC2021 was structured around 2 tracks including Robotics Automation and Intelligent Control. Based on the two tracks, Prof. Hanxiong Li from City University of Hong Kong, Prof. Yong Wang from Central South University, Prof. Giuseppe Carbone from University of Calabria, Prof. Mustafa MISIR from Duke Kunshan University, and Prof. Xianhua Wu from Shanghai Maritime University made eloquent speeches. Meantime, additional programs included half a day workshop regarding Robotics Automation and Intelligent Control with 24 presentations.

Thanks for the sponsors of University of Chinese Academy of Sciences, Central South University, Jilin University, Southeast University, Pennsylvania State University, Nanjing Normal University, Hunan University, Hunan Normal University, University of the Philippines, Yanshan University, Shanghai University of Engineering Science, Xiang Tan University, Harbin Engineering University, University of Science and Technology Beijing, Anhui Normal University, Anhui Agriculture University, City University of Hong Kong and Journal of Natural Science of Hunan Normal University.

ICRAIC2021 accepted 79 full papers worldwide. All submissions were peer-reviewed through a single-blind review process by an international panel of expert referees and decisions were taken based on standard.

There was a total of 120 participants and over 5000 views for the online broadcast. Positive feedback were received from many attendees. After the presentation, a Best Paper Award ceremony was arranged, awarding those authors who had done an excellent work.

There certainly exist deficiencies we'd like to fix. For our next conference, the CFP topics will be refined to better focus on the research field of Robotics, Automation and Intelligent Control.

Moreover, ICRAIC will be held worldwide and annually as scheduled in the following decades, which could enhance the interchange between the scholars at home and abroad and will not be delayed due to the epidemic situation. We will overcome difficulties according to the actual situation and adopt an approach combined with online and face-to-face communication. It is hoped that with the improvement of the epidemic situation, ICRAIC will be held in different countries and cities, to strengthen in-depth exchanges with scholars from different regions around the world.

We acknowledge the invaluable assistance of the conference committee members. A complete list of conference committee members can be found on this page. Most reviewers provided detailed and constructive comments which were valuable for the authors to continue improving their papers, even if their submissions were not selected for the conference. Given the high quality works done by authors, reviewers, and conference committee, we are confident that the proceeding of ICRAIC2021 captures the current state of the art research in the learning technology field and will have a significant impact on the research community in the longer term. Last but not least, thanks for the publication service of IOPScience.

Prof. Yong Wang

Prof. Heng Li

Prof. Fei Xie

Editors of Proceeding of ICRAIC2021
November, 2021

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