Preface

The 2021 International Conference on Computer Engineering and Innovative Application of VR (ICCEIA-VR 2021) was planned to be held on June 11-13, 2021 in Guangzhou, China. Due to the impact of COVID-19, many communities from all over the world were under strict health measures and strict travel restrictions, and participants of 2021 International Conference on Computer Engineering and Innovative Application of VR (ICCEIA-VR 2021) also meet with the difficulty of travel restrictions. Considering the situation that most of the authors would like to publish their articles and make academic communications as scheduled, ICCEIA-VR 2021 was held on-line instead of postponing the conference. It was a challenge, not only to the organizers, but also to the participants who were delivering their speeches using videoconference tools, under different time zones.

The conference was hosted by Technical Committee on Simulation Education Technology, China Association for Educational Technology and co-organized by Guangzhou Institute of Technology, Western Sydney University and AEIC Academic Information Exchange Center. In order to promote the development of teaching method, scientific research and academic activities for universities and scientific research institutes around the world through experience exchange in computer network, VR education innovation application, VR teaching, data communication, network technology, scientific research, etc. The conference also provided an international platform for sharing experiences, expanding professional networks, face-to-face exchange of new ideas and presenting research results.

The conference brings together about 65 leading researchers, engineers and scientists in the domain of interest from China, Malaysia, Italy, US and Singapore. The conference model was divided into two parts, including keynote presentations and online discussion. In the first part, each keynote speakers were allocated 30 minutes to present their talks via Zoom. After the keynote talks, all participants joined in a WeChat communication group to discuss more about the talks and presentations.

We were greatly honor to have invited three distinguished experts as our keynote speakers. Prof. Zhenming Zhai, Director of R3 Research Institute, Guangzhou University, Director of SYSU Human-Machine Interfacing Lab. His recent papers on the limits of artificial intelligence and machine thinking theory have been widely discussed, and there’s breakthrough on his research on Turing Test and other issues. Our second keynote speakers, Prof. Yan Lou, Director of Computer Center of China Medical University. Prof. Lou independently researched and developed three online teaching platforms: local area network teaching platform, Internet teaching resource platform and big data teaching informatization platform, which fully realized the digitalization of basic computer teaching from theory, experiment to examination, and integrated online and offline multi-methods teaching model. Prof. Haibin Ling, our finale keynote speakers, from Department of Computer Science, Stony Brook University. His research interests included computer vision, augmented reality, medical image analysis, visual privacy protection, and human computer interaction. Their insightful speeches had triggered heated discussion in the second session of the conference. The WeChat discussion lasted for about 30 minutes. Every participant praised this conference for disseminating useful and insightful knowledge.

The proceedings of ICCEIA-VR 2021 span over 4 topical tracks, that include: Computer Engineering, VR innovative technology and applications, Multisensory experience, Interaction and other related fields. All the papers have been through rigorous review and process to meet the requirements of international publication standard.

We would like to express our gratitude to everyone involved. Without this dedicated cooperation, it would be impossible to hold the conference at such a high level and prepare the ICCEIA-VR 2021 proceedings.

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