

Preface

The 2021 2nd International Conference on Machine Learning and Computer Application (ICMLCA 2021) is held on December 17-19, 2021. Due to the COVID-19 pandemic around the world, and with the strict travelling rules in China, it is still difficult to take international travel for our attendees abroad. Therefore, ICMLCA 2021 is held both in physical (Shenyang, China) and online (Zoom).

This unique international conference provides a forum for academics, researchers and practitioners from many industries to exchange ideas and share recent developments in the fields of Machine Learning, Computer Application and Robotic. We provide an opportunity to collaborate and advance the theory and practice of major trends in related fields and as a bridge for scholars to share and inspire their opinion. During the conference, the conference model was divided into three sessions, including oral presentations, keynote speeches, and online Q&A discussion. In the first part, some scholars, whose submissions were selected as the excellent papers, were given about 5-10 minutes to perform their oral presentations one by one. Then in the second part, keynote speakers were each allocated 30-45 minutes to hold their speeches.

In this conference, we were greatly honored to have two distinguished experts to serve as our Conference Chairman. There were over 260 experts and scholars in the area of Machine Learning and Computer Application representing different famous universities and institutes around the globe to attend the conference. During the conference, we were pleased to invite seven distinguished experts to present their insightful speeches. Prof. Guangjie Han, Hohai University College of Internet of Things Engineering, China. His research area: sensor networks, cloud computing, green computing, intelligent sensing technology, etc. Prof. Jing Liang, Ph.D. supervisor, Dean of School of Electrical Engineering, Zhengzhou University. She devotes in Design and Application of Swarm Intelligence Optimization Algorithm area. Prof. Guangyan Huang, Beijing Institute of Technology, China. His research area: weapon science and technology. Prof. Yongxing Tang, doctoral advisor, director of the Department of Chemistry at Nanjing University of Science & Technology. Prof. Yulin Wang is a full professor in the School of Computer Science, Wuhan University, China. His research interests include image and video processing, digital rights management, information security, intelligent system, e-commerce, IoT, code clone and so on. Prof. Jizhong Zhu, a Professor of South China University of Technology, and National Distinguished Expert. His research interest is in the analysis, operation, planning and control of power systems, smart grid, power markets as well as applications of renewable energy. Our finale keynote speaker, Prof. Yuanchang Zhong, from Chongqing University. His research area: Machinery & Electronics, Circuits and systems in communication and measurement and control, wireless sensor networks. Their insightful speeches had triggered heated discussion. Every participant praised this conference for disseminating useful and insightful knowledge.

The participants of the conference are from most part of the world, with background of either academia or industry, even well-known enterprise. The success and prosperity of the conference is reflected high level of the papers received. The proceedings are a compilation of the accepted papers and represent an interesting outcome of the conference. Topics include but are not limited to the following areas: Machine Learning, Computer Applications and Robotic.

We would like to acknowledge all of those who supported ICMLCA 2021. Each individual and institutional help are very important for the success of this conference. Especially we would like to thank the organizing committee for their valuable advices in the organization and helpful peer review of the papers. We sincerely hope that ICMLCA 2021 will be a forum for excellent discussions that will put forward new ideas and promote collaborative researches. We are sure that the proceedings will serve as an important research source of references and the knowledge, which will lead to not only scientific and engineering progress but also other new products and processes.

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