

Preface

The 2022 International Conference on Artificial Intelligence, Internet of Things and Cloud Computing Technology (AIOTC 2022) was successfully held on October 21-23, 2022 in Fuzhou, China (virtual conference). AIOTC 2022 brought together outstanding scholars, researchers, and students to share their experiences and research results in the fields of Artificial Intelligence, Internet of Things and Cloud Computing Technology.

We had the honor of having invited both Prof. Xinyu Da and Prof. Fenghua Huang from Yango University, China to serve as our Conference General Chairs. The conference was composed of keynote speeches, oral presentations, and online Q&A discussion, attracting 100 individuals. Firstly, keynote speakers were each allocated 30-45 minutes to hold their speeches. Then in the next part, oral presentations, the excellent papers selected were presented by their authors by turns.

During the conference, three distinguished professors were invited to address their keynote speeches. Among them, Prof. Wanyang Dai from Nanjing University, China delivered a speech on Optimal Policy Computing for Blockchain Smart Contracts via Federated Learning with Applications in Metaverse, IoV & IoT. In the research, he developed a blockchain based decision-making system via federated learning along with an evolving convolution neural net (CNN), which can be applied to assemble-to-order (ATO) oriented FinTech service systems, Metaverses, 6G/6G+ wireless communications, Internet of Vehicles (IoV), Internet of Energy (IoE), and general Internet of Things (IoT). And then, Dr. Deepak from Chongqing University of Posts and Telecommunications, China made a report on Facial Expression Recognition Using Deep Learning Models. This report reviewed the fundamental approaches to facial measurement by behavioral scientists and current efforts in automated facial expression recognition. He and his team considered challenges and reviewed databases available to the research community, approaches to feature detection, tracking, and representation as well as the future work. Their brilliant keynote speeches triggered heated discussion in the conference. And every participant praised this conference for disseminating useful and insightful knowledge.

The proceedings of AIOTC 2022 are a compilation of the accepted papers and represent an interesting outcome of the conference. These papers feature but are not limited to the following topics: Robot Technology, Pattern Recognition, IoT Technology Architecture, Cloud Security and Privacy, etc. All the papers have been checked through rigorous review and processes to meet the requirements of publication.

We would like to express our sincere gratitude to all the keynote speakers, peer reviewers, and all the participants who supported and contributed to AIOTC 2022. Particularly, our special thanks go to the VDE Verlag GmbH, for the efforts of all its colleague in publishing this paper volume. We firmly believe that AIOTC 2022 had turned out to be a forum for excellent discussions that enable new ideas to come about, promoting collaborative research.

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