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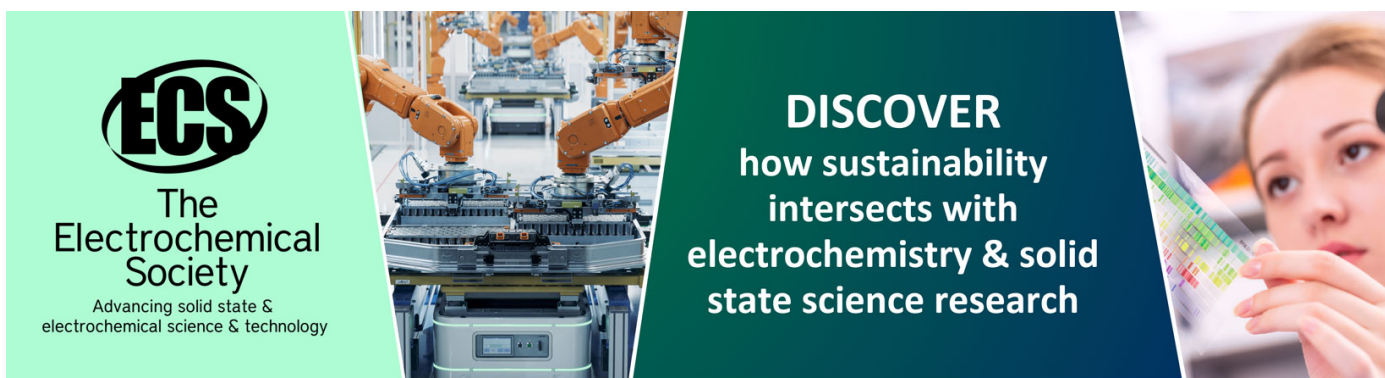
Preface

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Preface

Due to recent pandemic, the 2022 3rd International Conference on Mechatronics Technology and Intelligent Manufacturing (ICMTIM 2022) which was planned to be held in Hangzhou, China, was held virtually online during April 15-17, 2022. The decision to hold the virtual conference was made in compliance with many restrictions and regulations that were imposed by countries around the globe. Such restrictions were made to minimize the risk of people contracting or spreading the COVID-19 through physical contact. There were 90 individuals who attended this on-line conference, represented many countries including Malaysia, USA, India and China.

The ICMTIM 2022 conference will be held once a year, aiming at bringing together scholars, experts, developers and technicians in the fields of mechatronics and intelligent manufacturing to a platform for academic exchanges, and providing a platform for sharing scientific research achievements and cutting-edge technologies, understanding academic development trends, broadening research ideas, strengthening academic research and discussion, and promoting industrial cooperation of academic achievements. The conference invites experts, scholars, business people and other relevant personnel from universities and research institutions at home and abroad to attend and exchange.

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 the second part, we invited four professors as our keynote speakers. Assoc. Prof. Guanglei Wu, Dalian University of Technology, School of Mechanical Engineering, China, performed a speech: *Robotic welding in large-scale ship hull construction*. And then we had Assoc. Prof. Hongtao Tang, Wuhan University of Technology, School of Mechanical and Electrical Engineering, China. He made a wonderful speech: *Intelligent scheduling and the development & application of MES system in hydraulic cylinder manufacturing*. Prof. Kai Wang, our third keynote speaker, from School of Electrical Engineering, Qingdao University, China. He delivered a wonderful speech: *Research on life prediction of supercapacitor based on improved long-term and short-term memory neural network*. The finale keynote speaker, Prof. (Dr.) Sandeep Saxena, from IMS Unison University, Dehradun, INDIA, performed a speech: *Non-Fungible Token (NFT)*. Their insightful speeches had triggered heated discussion in the third session of the conference. Every participant praised this conference for disseminating useful and insightful knowledge.

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: Mechatronics Technology, Intelligent Manufacturing and other related topic. All the papers have been through rigorous review and process to meet the requirements of international publication standard.

We would like to acknowledge all of those who supported ICMTIM 2022. The help and contribution of each individual and institution was instrumental in the success of the conference. In particular, we would like to thank the organizing committee for its valuable inputs in shaping the conference program and reviewing the submitted papers.

We sincerely hope that the ICMTIM 2022 turned out to be a forum for excellent discussions that enabled new ideas to come about, promoting collaborative research. We are sure that the proceedings will serve as an important research source of references and knowledge, which will lead to not only scientific and engineering findings but also new products and technologies.

The Committee of ICMTIM 2022



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