Proceedings of the 2nd International Conference on Machine Learning and Automation

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Preface

The 2nd International Conference on Machine Learning and Automation (CONF-MLA 2024) is an annual conference focusing on research areas including engineering and machine learning applications. It aims to establish a broad and interdisciplinary platform for experts, researchers, and students worldwide to present, exchange, and discuss the latest advance and development in engineering and machine learning applications.

This volume contains the papers of the 2nd International Conference on Machine Learning and Automation (CONF-MLA 2024). Each of these papers has gained a comprehensive review by the editorial team and professional reviewers. Each paper has been examined and evaluated for its theme, structure, method, content, language, and format.

Cooperating with prestigious universities, CONF-MLA 2024 organized six workshops in Tianjin, Adana, Beijing, Melbourne, Chicago and Glasgow. Dr. Guozheng Rao chaired the workshop "Neural Computing and Applications", which was held at Tianjin University. Dr. Mustafa ISTANBULLU chaired the workshop "Exploring Electrical Impedance Tomography (EIT) Basics and Applications", which was held at Çukurova University. Dr. Marwan Omar chaired the workshop "Mastering the Art of GANs: Unleashing Creativity with Generative Adversarial Networks", which was held at Illinois Institute of Technology. Dr. Ansam Khraisat chaired the workshop "Securing the Future: Empowering Cyber Defense with Machine Learning and Deep Learning", which was held at Deakin University. Dr. Xinqing Xiao chaired the workshop "Machine Learning assisted Automation Sensing System", which was held at China Agricultural University. Prof. Anil Fernando chaired the workshop "Semantic Communication Based Complexity Scalable lmage Transmission System for Resource Constrained Devices", which was held at University of Strathclyde.

Besides these workshops, CONF-MLA 2024 also held an online session. Eminent professors from top universities worldwide were invited to deliver keynote speeches in this online session, including Dr. Marwan Omar from Illinois Institute of Technology, Dr. Mustafa ISTANBULLU from Çukurova University, Dr. Anil Fernando from University of Strathclyde, etc. They have given keynote speeches on related topics of engineering and machine learning applications.

We would like to give sincere gratitude to all authors and speakers who have made their contributions to CONF-MLA 2024, editors and reviewers who have guaranteed the quality of papers with their expertise, and the committee members who have devoted themselves to the success of CONF-MLA 2024.

Dr. Mustafa ISTANBULLU

General Chair of Conference Committee

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