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Introduction

We are pleased to present the proceedings for the Fifth International Conference on Image, Video Processing, and Artificial Intelligence (IVPAI 2023) held in Shenzhen, China, 14–15 December 2023. As an annual conference, the IVPAI aims to provide a forum for the most up-to-date and authoritative knowledge from both the industrial and academic worlds, sharing the newest research fruits and experiences in this exciting field.

The scientific program for the event was filled with presentations delivered by researchers and scholars from the international community, including keynote speeches and highly selective lectures. Every paper in this collection underwent rigorous peer-review performed by the conference technical committee and international reviewers before being selected for publication.

We hope that the contents of this volume prove useful for researchers and practitioners working in the fields of image processing and artificial intelligence in their efforts to develop and apply new technologies and processes.

The organizing committee expresses sincere gratitude to all the authors who presented their works at IVPAI2023 and contributed in this way to the success of this event. Special thanks are due to the authors from aboard for attending the conference and to the reviewers for their great support in improving the quality of the papers in this volume. The organizing committee also addresses warmest thanks to all the international committee members for their support and the many others for their contribution in organizing IVPAI 2023. We look forward to seeing you at IVPAI 2024!