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Introduction

The 2019 2nd International Conference on Image, Video Processing and Artificial Intelligence (IVPAI 2019) provided 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 second IVPAI was held in Shanghai, China during 23–25 August 2019.

It was organized by Shanghai Advanced Research Institute, Chinese Academy of Sciences, Shanghai, China. IVPAI 2019 is to bring together innovative academics and industrial experts in the field of image, video processing and artificial intelligence to a common forum.

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. IVPAI received a total of 150 submitted papers this year. This volume contains 108 selected papers, which were presented at the conference. 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 express sincere gratitude to all the authors who presented their works at IVPAI 2019 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 address warmest thanks to all the members of the international committee for their support and the many others for their contribution in organizing IVPAI 2019.

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