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**Xudong Jiang
Zhenxiang Chen
Guojian Chen**
Editors

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Introduction

In recent years, pattern recognition has become a hot research branch thanks to the recent advances of deep machine learning driven by big data. In light of the fast-paced advancements in pattern recognition taking place all over the world, it is of great interest to keep an eye on state-of-the-art research and development and to facilitate collaboration in multidisciplinary research areas. With this end in view, it was a great pleasure for me to invite you to participate in the 4th International Workshop on Pattern Recognition held during June 28-30, 2019 in Nanjing, China.

The aim of the conference is to address and deliberate on the latest technical status and recent trends in the research, developments and applications of pattern recognition. This conference has been designed with the view of providing an opportunity for scientists, engineers, industrialists, students and other professionals from all over the world to interact and exchange their new ideas and research outcomes for future collaboration.

This year, IWPR has solicited 59 submitted papers from various countries all over the world. The proceedings of IWPR 2019 contain 38 selected papers from the conference that have been presented at the conference either orally or via poster sessions. They provide up-to-date, comprehensive and worldwide state-of-the-art knowledge and techniques in this field. Each contributed paper was rigorously peer-reviewed by international reviewers who were drawn from the organizing and advisory committee members and external reviewers in related fields from all over the world. The proceedings cover the following specific areas: pattern recognition, target detection, image transformation and analysis, image detection technology and application, image processing and application, signal analysis and processing, and computer science and engineering.

On behalf of the organizing committee, we'd like to express our heartfelt gratitude to all the reviewers for their great professionalism and efforts. Also, thanks to all the participants and sponsors for their valuable contributions and support of IWPR 2019.

General Chairs
Xudong Jiang