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MIPPR 2023: Pattern Recognition and Computer Vision

**Jianguo Liu
Zhong Chen
Changxin Gao
Yang Xiao
Sheng Zhong
Hanyu Hong
Xiaofeng Yue**
Editors

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Contents

v *Symposium Committee*
ix *Introduction*

PATTERN RECOGNITION AND COMPUTER VISION

- 13086 02 **CamLite: accelerating precise anomaly detection for camshaft on edge devices (Invited Paper)** [13086-2]
- 13086 03 **Robust facial landmark detection network based on multiscale attention residual blocks (Invited Paper)** [13086-3]
- 13086 05 **Residual multi-scale pixel attention fusion network for image deblurring (Invited Paper)** [13086-7]
- 13086 06 **Human pose estimation constrained by human structure information (Invited Paper)** [13086-9]
- 13086 08 **Suitable matching area selection for aircraft navigation based on multi-modal information fusion (Invited Paper)** [13086-13]
- 13086 09 **Cross-modal vehicle re-identification based on multi-scale features and attention mechanism (Invited Paper)** [13086-14]
- 13086 0A **Accurate extraction of line-structured optical stripe centerlines under low exposure (Invited Paper)** [13086-16]
- 13086 0B **Research on grid inspection technology based on general knowledge enhanced multimodal large language models (Invited Paper)** [13086-19]
- 13086 0C **A comparison between deep-learning models for scene recognition (Invited Paper)** [13086-20]
- 13086 0D **Binary network design for dedicated hardware circuits (Invited Paper)** [13086-22]
- 13086 0E **Evaluation of training datasets for typical target detection networks (Invited Paper)** [13086-23]
- 13086 0F **Optimal exposure selection of high dynamic range-based reflection compensation for printed circuit board reconstruction using structured light 3D measurement system (Invited Paper)** [13086-24]
- 13086 0G **Fall detection model based on AlphaPose combined with LSTM and Lightgbm (Invited Paper)** [13086-25]
- 13086 0J **An image enhancement algorithm based on multi-scale Retinex theory to improve the images quality of sensors (Invited Paper)** [13086-32]

- 13086 OL **Plant fruit counting using context aware feature and point to point pairing (Invited Paper)**
[13086-36]
- 13086 OM **A coarse-to-fine multi-view stereo network based on attention mechanisms (Invited Paper)**
[13086-39]
- 13086 ON **Research on point cloud scene parsing method based on M2F (Invited Paper)** [13086-41]
- 13086 OO **A fuzzy hyperbolic secant function clustering algorithm (Invited Paper)** [13086-42]
- 13086 OP **A cross-level semantic aggregation segmentation method in aquatic scenes (Invited Paper)**
[13086-43]
- 13086 OQ **A two-stage network for underwater image enhancement based on dual attention and multi-color space stretch (Invited Paper)** [13086-46]
- 13086 OS **Coarse registration of color point clouds by combining color feature and geometric feature (Invited Paper)** [13086-48]
- 13086 OT **Deep fusion network based on two-stream CNN for radar target recognition (Invited Paper)**
[13086-49]
- 13086 OU **A novel method based on snake optimization algorithm for improving fuzzy clustering**
[13086-50]
- 13086 OW **3D semantic segmentation under adverse weather conditions** [13086-53]
- 13086 OX **Unveiling decision-making in remote sensing with deep learning interpretability** [13086-54]

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Introduction

Welcome to SPIE 12th International Symposium on Multispectral Image Processing and Pattern Recognition (MIPPR) in the city of Wuhan, China, 10-12 November 2023.

SPIE MIPPR is a flagship biennial symposium of SPIE. The symposium of 2023 took place after four years due to the Covid-19 pandemic for several years. The 11th symposium took place in November 2019. The symposium focuses mainly on the latest research in multispectral image processing and pattern recognition. The symposium has a broad charter. Multi-spectral is interpreted not just as multiple-wavelength in a narrow sense but also as multi-sensor, multi-modal, and multimedia. It covers many disciplines such as sensing, image processing, computer vision, and pattern recognition and involves the development of efficient processing algorithms and their optimization and implementation. The wide range of applications considered in this symposium include automatic target recognition, autonomous navigation, medical image processing, remote sensing, geographic information systems, and many others.

The symposium provides a forum for scientists, professors, engineers, and graduate students from universities, industries, and government laboratories to meet and exchange ideas and discuss theories, techniques, algorithms, and applications in multispectral image processing and pattern recognition. We expect that there will be ample discussions both inside and outside the lecture halls, and this will be an exciting meeting.

In response to the Call for Papers, we received 118 submissions. Based on the reviews provided by an excellent program committee, we accepted 86 papers covering many aspects of multispectral image processing and pattern recognition. To ensure a high-quality conference, all abstracts and proceedings of SPIE papers are reviewed by the peers for technical merit and English expression. The proceedings of MIPPR 2023 Symposium consist of five volumes which will be included in the SPIE Digital Library.

- Multispectral Image Acquisition, Processing, and Analysis (SPIE Volume 13084)
- Automatic Target Recognition and Navigation (SPIE Volume 13085)
- Pattern Recognition and Computer Vision (SPIE Volume 13086)
- Parallel Processing of Images and Optimization Techniques; and Medical Imaging (SPIE Volume 13087)
- Remote Sensing Image Processing, Geographic Information Systems, and Other Applications (SPIE Volume 13088)

The realization of a conference depends upon the hard work of many dedicated people. We would like to thank all the members of the organizing committee for putting together this symposium for the benefit of all the researchers. They are responsible for making this conference a success. We hope the papers and the research results presented at this conference will inspire new research in all the areas related to multispectral image processing and pattern recognition.

Bir Bhanu

November 10, 2023