MIPPR 2015: Parallel Processing of Images and Optimization; and Medical Imaging Processing

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## Contents

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>v</td>
<td>Authors</td>
</tr>
<tr>
<td>vii</td>
<td>Symposium Committee</td>
</tr>
<tr>
<td>xi</td>
<td>Introduction</td>
</tr>
</tbody>
</table>

**PARALLEL PROCESSING OF IMAGES AND OPTIMIZATION TECHNIQUES**

- **9814 02** An ant colony algorithm on continuous searching space [9814-106]
- **9814 03** Optimized hyperspectral band selection using hybrid genetic algorithm and gravitational search algorithm [9814-19]
- **9814 04** Fast restoration approach for motion blurred image based on deconvolution under the blurring paths [9814-107]
- **9814 05** ASIC-based architecture for the real-time computation of 2D convolution with large kernel size [9814-109]
- **9814 06** A novel sliding window algorithm for 2D discrete Fourier transform [9814-118]
- **9814 07** Hardware efficient implementation of DFT using an improved first-order moments based cyclic convolution structure [9814-112]
- **9814 08** FPGA-based design of FFT processor and optimization of window-adding [9814-115]

**MEDICAL IMAGING AND PROCESSING**

- **9814 09** Automatic segmentation and classification of mycobacterium tuberculosis with conventional light microscopy [9814-29]
- **9814 0A** Phantom study and accuracy evaluation of an image-to-world registration approach used with electro-magnetic tracking system for neurosurgery [9814-27]
- **9814 0B** Infrared medical image visualization and anomalies analysis method [9814-1]
- **9814 0C** A novel de-noising method for B ultrasound images [9814-31]
- **9814 0D** A novel scatter-matrix eigenvalues-based total variation (SMETV) regularization for medical image restoration [9814-4]
- **9814 0E** Non-rigid registration of medical images based on ordinal feature and manifold learning [9814-10]
- **9814 0F** An effective segmentation method of ultrasonic thyroid nodules [9814-20]
Non-negative constraint for image-based breathing gating in ultrasound hepatic perfusion data [9814-12]

Enhancement of brain tumor MR images based on intuitionistic fuzzy sets [9814-13]

Research of the multimodal brain-tumor segmentation algorithm [9814-25]

A novel simulation algorithm on ultrasonic image based on triangular planar transducers [9814-7]

Cytoplasm enhancement operator of peripheral blood smear images that are instable-stained and overexposed [9814-2]

A novel image-based motion correction algorithm on ultrasonic image [9814-3]
Authors

Numbers in the index correspond to the last two digits of the six-digit citation identifier (CID) article numbering system used in Proceedings of SPIE. The first four digits reflect the volume number. Base 36 numbering is employed for the last two digits and indicates the order of articles within the volume. Numbers start with 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B...0Z, followed by 10-1Z, 20-2Z, etc.

Cai, Chao, 02
Cao, Li, 07
Chen, Wufan, 01
Chen, Xi, 0G
Chen, Zhong, 0B
Cheng, Lifang, 0H
Deng, He, 0H
Deng, Lihua, 0D
Deng, Wankai, 0H
Deng, Wenjie, 0G
Ding, Mingyue, 0G
Dong, Zhifang, 06
Du, Wenpeng, 0F
Fan, Jing, 0B
Fang, Hao, 0D
Gong, Jing, 0B
Gui, Ji Yong, 06
Hua, Xia, 04
Huang, Zhenghua, 0D
Jia, Zhen-Hong, 0C
Kai, Pan, 08
Li, Qi, 0E
Li, Qian, 0D
Li, Senhu, 0A
Li, Shigao, 0J, 0L
Li, Yaqin, 0J, 0L
Lu, Jianfeng, 07, 0K
Liu, Jie, 0E
Liu, Yunhui, 09
Lu, Yisu, 0I
Lv, Xiao-Yi, 0C
Mo, Jia-qi, 0C
Song, Nong, 0F
Sarment, David, 0A
Shao, Rui, 05
Shi, Yu, 04
Song, Jie, 04, 08
Sun, Genyun, 03
Sun, Kaixiang, 0J
Tian, Da-Yong, 0C
Wang, Guoyou, 0K
Wang, Xuan, 0J, 0L
Wang, Zhenjie, 03
Wu, Jiasong, 06
Wu, Kaizhi, 0G
Xie, Jing, 02
Xiong, Jun, 07
Xu, Chao, 09
Yan, Liang, 0B
Yan, Luxin, 05
Yu, Xiao, 0C
Yu, Yin-Feng, 0C
Zang, Bo, 0E
Zhai, Yongping, 09
Zhang, Aizhu, 03
Zhang, Cong, 0J
Zhang, Tianxu, 0D
Zhang, Zhijun, 0G
Zheng, Xin, 0K
Zhong, Qing, 08
Zhong, Sheng, 05
Zhou, Dongxiang, 09
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Introduction

Welcome to proceedings from the 9th International Symposium on Multispectral Image Processing and Pattern Recognition (MIPPR 2015), which was held in Enshi, Hubei, China, 31 October to 1 November 2015.

MIPPR 2015 is a biennial symposium which focuses mainly on the latest research in multispectral image processing and pattern recognition. The symposium had a broad charter. Multispectral was interpreted as not just multiple-wavelength in a narrow sense but also multi-sensor, multi-modal, and multimedia. The symposium covered many disciplines such as sensing, image processing, computer vision, and pattern recognition and involved the development of efficient processing algorithms and their optimization and implementation. The wide range of applications considered included automatic target recognition, autonomous navigation, medical image processing, remote sensing, geographic information systems, and many others.

The symposium provided 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. As expected, there were ample discussions both inside and outside the lecture halls, and it was an exciting meeting.

In response to our call for papers, we received 326 submissions. Based on the reviews provided by an excellent program committee we accepted 245 papers covering many aspects of multispectral image processing and pattern recognition. To ensure a high-quality conference, all abstracts and proceedings of SPIE manuscripts were reviewed by peers for technical merit and English expression. The proceedings from MIPPR 2015 consist of the following five volumes, which are all included in the SPIE Digital Library:

- **MIPPR 2015: Multispectral Image Acquisition, Processing and Analysis (SPIE Volume 9811)**
- **MIPPR 2015: Automatic Target Recognition and Navigation (SPIE Volume 9812)**
- **MIPPR 2015: Pattern Recognition and Computer Vision (SPIE Volume 9813)**
- **MIPPR 2015: Parallel Processing of Images and Optimization; and Medical Imaging Processing (SPIE Volume 9814)**
- **MIPPR 2015: Remote Sensing Image Processing, Geographic Information Systems; and Other Applications (SPIE Volume 9815).**

The realization of a conference depends upon the hard work of many dedicated people. We thank all the members of the organizing committee who put together
MIPPR 2015 for the benefit of all the researchers and for making this conference a success. We hope the papers and the research results presented at this symposium will inspire new research in all the areas related to multispectral image processing and pattern recognition.

Bir Bhanu