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PROCEEDINGS OF SPIE

# ***Second International Workshop on Pattern Recognition***

**Xudong Jiang  
Masayuki Arai  
Guojian Chen**  
*Editors*

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# Contents

- vii *Authors*
- ix *Conference Committees*
- xiii *Introduction*

## **SESSION 1 TARGET RECOGNITION AND TRACKING**

---

- 10443 02 **Artificial intelligence tools for pattern recognition** [10443-40]
- 10443 03 **Eye movement identification based on accumulated time feature** [10443-21]
- 10443 04 **Facades structure detection by geometric moment** [10443-67]
- 10443 05 **A natural approach to convey numerical digits using hand activity recognition based on hand shape features** [10443-6]
- 10443 06 **Multiclass multiple kernel learning for HRRP-based radar target recognition** [10443-11]
- 10443 07 **Degraded Chinese rubbing images thresholding based on local first-order statistics** [10443-35]
- 10443 08 **Towards discrete wavelet transform-based human activity recognition** [10443-45]
- 10443 09 **Pattern recognition of concrete surface cracks and defects using integrated image processing algorithms** [10443-73]
- 10443 0A **Recognizing Chinese characters in digital ink from non-native language writers using hierarchical models** [10443-4]
- 10443 0B **Fault prevention by early stage symptoms detection for automatic vehicle transmission using pattern recognition and curve fitting** [10443-69]
- 10443 0C **Improved convolutional networks in forest species identification task** [10443-58]
- 10443 0D **Research and implementation of finger-vein recognition algorithm** [10443-8]
- 10443 0E **Comparison expert and novice scan behavior for using e-learning** [10443-64]
- 10443 0F **Driver face tracking using semantics-based feature of eyes on single FPGA** [10443-30]

---

**SESSION 2 FACE RECOGNITION**

---

- 10443 OG **Finessing filter scarcity problem in face recognition via multi-fold filter convolution** [10443-47]
- 10443 OH **Method for secure electronic voting system: face recognition based approach** [10443-55]
- 10443 OI **Video-based face recognition via convolutional neural networks** [10443-26]
- 10443 OJ **Application of OpenCV in Asus Tinker Board for face recognition** [10443-27]
- 10443 OK **Multimodal recognition based on face and ear using local feature** [10443-43]
- 10443 OL **Upright detection of in-plane rotated face images with complicated background for organizing photos** [10443-10]
- 10443 OM **Face pose tracking using the four-point algorithm** [10443-38]

---

**SESSION 3 IMAGE SEGMENTATION**

---

- 10443 ON **Multiple images segmentation based on saliency map** [10443-18]
- 10443 OO **Carotid artery B-mode ultrasound image segmentation based on morphology, geometry and gradient direction** [10443-59]
- 10443 OP **Automatic airline baggage counting using 3D image segmentation** [10443-9]
- 10443 OQ **Automated segmentation and isolation of touching cell nuclei in cytopathology smear images of pleural effusion using distance transform watershed method** [10443-66]

---

**SESSION 4 IMAGE TRANSFORMATION AND ANALYSIS**

---

- 10443 OR **Long-range correlation and wavelet transform analysis of solar magnetic activity** [10443-57]
- 10443 OS **Research on image registration based on D-Nets** [10443-51]
- 10443 OT **Blind technique using blocking artifacts and entropy of histograms for image tampering detection** [10443-37]
- 10443 OU **Smart mapping for quick detection of dissimilar binary images** [10443-28]
- 10443 OV **Content-based image retrieval using scale invariant feature transform and gray level co-occurrence matrix** [10443-53]
- 10443 OW **Comparing the performance of different ultrasonic images enhancement for speckle noise reduction in ultrasound images using techniques: a preference study** [10443-20]
- 10443 OX **Action description using point clouds** [10443-42]

10443 0Y **A new non-uniformity correction method based on unidirectional variational model**  
[10443-62]

---

**SESSION 5 MEDICAL IMAGE ANALYSIS AND PROCESSING**

---

10443 0Z **SVM-based automatic diagnosis method for keratoconus** [10443-44]

10443 10 **Automatic bone outer contour extraction from B-modes ultrasound images based on local phase symmetry and quadratic polynomial fitting** [10443-60]

10443 11 **Facial fluid synthesis for assessment of acne vulgaris using luminescent visualization system through optical imaging and integration of fluorescent imaging system** [10443-71]

10443 12 **Experiments on automatic classification of tissue malignancy in the field of digital pathology** [10443-29]

---

**SESSION 6 IMAGE PROCESSING AND APPLICATIONS**

---

10443 13 **Color vision deficiency compensation for Visual Processing Disorder using Hardy-Rand-Rittler test and color transformation** [10443-70]

10443 14 **Profiling and sorting Mangifera Indica morphology for quality attributes and grade standards using integrated image processing algorithms** [10443-65]

10443 15 **Progressive 3D shape abstraction via hierarchical CSG tree** [10443-13]

10443 16 **Lane marking detection based on waveform analysis and CNN** [10443-7]

10443 17 **Interactive QR code beautification with full background image embedding** [10443-23]

10443 18 **Gaze inspired subtitle position evaluation for MOOCs videos** [10443-22]

10443 19 **Single image super-resolution based on image patch classification** [10443-50]

10443 1A **Training strategy for convolutional neural networks in pedestrian gender classification**  
[10443-54]

10443 1B **Development of intelligent surveillance system (ISS) in region of interest (ROI) using Kalman filter and camshift on Raspberry Pi 2** [10443-46]

10443 1C **Video error concealment using block matching and frequency selective extrapolation algorithms** [10443-49]

10443 1D **Part-based deep representation for product tagging and search** [10443-34]

10443 1E **The filling-in function of the Bayesian AutoEncoder Network** [10443-72]

---

**SESSION 7 FILTER DESIGN AND SIGNAL PROCESSING**

---

- 10443 1F **Almost minimax design of FIR filter using an IRLS algorithm without matrix inversion** [10443-52]
- 10443 1G **Real time eye tracking using Kalman extended spatio-temporal context learning** [10443-14]
- 10443 1H **An improved MTI filter for ground clutter reduction in UAV classification** [10443-48]
- 10443 1I **Mining maximal approximate numerical frequent patterns from uncertain data and application for emitter entity resolution** [10443-24]
- 10443 1J **Assessing effect of meditation on cognitive workload using EEG signals** [10443-41]
- 10443 1K **Cloud storage based mobile assessment facility for patients with post-traumatic stress disorder using integrated signal processing algorithm** [10443-68]
- 10443 1L **Analytic radar micro-Doppler signatures classification** [10443-33]

---

**SESSION 8 COMPUTER INFORMATION THEORY AND TECHNOLOGY**

---

- 10443 1M **Mining strong jumping emerging patterns with a novel list data structure** [10443-32]
- 10443 1N **Study of the similarity function in Indexing-First-One hashing** [10443-5]
- 10443 1O **Heterogeneous computing for a real-time pig monitoring system** [10443-3]
- 10443 1P **Deep learning application: rubbish classification with aid of an android device** [10443-25]
- 10443 1Q **A curriculum-based approach for feature selection** [10443-56]

# Authors

Numbers in the index correspond to the last two digits of the seven-digit citation identifier (CID) article numbering system used in Proceedings of SPIE. The first five 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.

Abu, Jon Ervin A., 0B  
Acevedo, Antonio, 02  
Acevedo, Elena, 02  
Alim, M. Affan, 0H  
Avilés, Pedro, 02  
Bai, Hao, 0A  
Baig, Misbah M., 0H  
Balbin, Jessie R., 09, 0B, 11, 13, 14, 1K  
Bao, Tianlong, 0I  
Barata, R., 12  
Basco, Abigail Joy S., 1K  
Bautista, Joshua Ian C., 13  
Baylon, Sunnycille, 09  
Bhagvati, Chakravarthy, 1Q  
Bhuiyan, Touhid, 0W  
Cabanada, Myla B., 1K  
Camba, Clarisse O., 11  
Chai, T.-Y., 1N  
Chen, Hongli, 18  
Chen, Hou Jin, 16  
Chen, Hui, 04  
Chen, Ji-An, 0F  
Chen, Keqing, 1D  
Chen, Long, 0K  
Chen, Xiangtao, 1M  
Chen, Xingyou, 15  
Chen, Wei-Yu, 0J  
Chen, Yilei, 0D  
Cheng, Hongtan, 0S  
Chidananda, H., 05  
Choi, Yunchang, 1O  
Choomchuay, Somsak, 0Q  
Chung, Yeonwoo, 1O  
Chung, Yongwha, 1O  
Cruz, Febus Reidj G., 0B  
Dela Cruz, Jennifer C., 11  
Deng, Linhua, 0R  
Ding, Chunhui, 0I  
Fan, Hongqi, 06  
Fan, Tingyu, 0K  
Fausto, Janette C., 14  
Felipe, Federico, 02  
Fung, Ho Yin, 0M  
Furtado, Pedro, 12  
Gao, Qingji, 0P  
Gao, Yuhong, 0Z  
Garcia, Ramon G., 09  
Goi, Bok-Min, 1A, 1N  
Gonzales, Patrisha Melrose V., 1K  
Gozo, Angelo D., 11  
Gu, Zhaoning, 1L  
Guan, Ziping, 1M  
Guo, Baobao, 03  
Guo, Xin, 1H  
Guo, Yu, 06  
Hamamoto, Kazuhiko, 0Q  
Hao, Xiao Li, 16  
Hassan, Md. Maruf, 0W  
Hong, Kicheon, 1B  
Hortinela, Carlos C., IV, 09  
Hou, Ling-Ying, 07  
Hu, Chung-Chiang, 0J  
Hu, Jing, 0Y  
Huang, Han, 07  
Ignacio, Alexander Joshua, 09  
Inaba, Mary, 1E  
Insap Santosa, Paulus, 0E  
Jadhav, Narendra, 1J  
Jalil, Abdul, 1G  
Janabajab, John Michael M., 14  
Jeon, Moongu, 08, 1G  
Jiang, Bo, 17, 18, 1P  
Jiang, Diqiong, 04  
Jiang, Yongfeng, 0X  
Jimenez, Sheena Mariz B., 11  
Jin, Z., 1N  
Joshi, Yashwant, 1J  
Kalavala, Deepthi, 1Q  
Kam, Ho Chuen, 0M  
Karlita, Tita, 10  
Karmoshi, Saleem, 0I  
Khaparde, Arti, 1C  
Khare, Ashish, 0V  
Khare, Manish, 08, 0V  
Kim, Hakjae, 1O  
Kim, Jaehak, 1O  
Kim, Jinseong, 1O  
Kwok, Ngaiming, 0F  
Lai, Xiaoping, 1F  
Lai, Y.-L., 1N  
Li, Chenglong, 15  
Li, Jing, 0Z, 19  
Li, ShiYing, 0N  
Li, SiQi, 0N  
Li, ZhiQi, 0N  
Lin, Lijian, 17  
Lin, Zhiping, 1F, 1H, 1L  
Liu, Fan, 0Y



Liu, Qinglai, 1H  
 Liu, Sijiang, 17, 18, 1P  
 Liu, Wenping, 0X  
 Liu, Ying, 0D  
 Liu, Zhaoguang, 0S  
 Low, Cheng-Yaw, 0G  
 Luo, Qijun, 0P  
 Malicdem, Daryl James L., 14  
 Manthalkar, Ramchandra, 1J  
 Marasigan, Juan Carlos C., 1K  
 Marcelo, Reginald N., 14  
 Mehboob, Shahzain, 0H  
 Mehtre, B. M., 0T  
 Meng, Lei, 04  
 Minhas, Fayyaz ul Amir Asfar, 1G  
 Mu, Zhichun, 0K  
 Munir, Farzeen, 1G  
 Mustafa, Adnan A. Y., 0U  
 Naseem, Imran, 0H  
 Nebres, Pauline D., 13  
 Ng, Choon-Boon, 1A  
 Ning, XiaoLan, 0N  
 Nishino, Kaneharu, 1E  
 Novita Sari, Felisia, 0E  
 Oh, Beom-Seok, 1L  
 P. K., Rajani, 1C  
 Pang, Zengyao, 0D  
 Park, Daihee, 1O  
 Park, Junghun, 1B  
 Pereira, J., 12  
 Pinugu, Jasmine Nadja J., 13, 1K  
 Purnama, I. Ketut Eddy, 0O, 10  
 Purnomo, Mauridhi Hery, 0O, 10  
 Rana, Md. Shohel, 0W  
 Reddy, T. Hanumantha, 05  
 Rey Hipolito, Cipriano M., IV, 13  
 Rivera, Marco Antonio, 09  
 Santella, Jose Anthony A., 13  
 Santos, Jan Jeffrey Z., 14  
 Sardjono, Tri Arief, 0O  
 Sarker, Kaushik, 0W  
 Sebastian, Jaimie, 09  
 Shima, Yoshihiro, 0L  
 Siew, Kar Fai, 0C  
 Siño, Carlo G., 0B  
 Song, Rui, 04  
 Srivastava, Prashant, 0V  
 Sun, Jiande, 03, 0Z, 19  
 Sun, Lei, 1F  
 Sunarya, I. Made Gede, 0O  
 Sunu, Ismoyo, 0O  
 Tang, Jin, 15  
 Tang, Xin Jie, 0C  
 Tay, Yong-Haur, 0C, 1A  
 Teoh, Andrew Beng-Jin, 0G  
 Ting, Yi-Siang, 0F  
 Toh, Kar-Ann, 1F, 1L  
 Tribiana, Aivje C., 11  
 Tsui, Kwan Pang, 0M  
 Ubaldo, Paolo E., 0B  
 V. T., Manu, 0T  
 Wan, Fangyuan, 1H  
 Wan, Wenbo, 0Z  
 Wang, Chen, 1H  
 Wang, Fang, 07  
 Wang, Guan, 1L  
 Wang, Haili, 0X  
 Wibirama, Sunu, 0E  
 Win, Khin Yadanar, 0Q  
 Wong, Kin Hong, 0M  
 Wu, Cengceng, 0S  
 Wu, Frank, 0J  
 Wu, Qiang, 03, 0Z  
 Wu, Song, 17  
 Xia, Ping, 19  
 Xiao, Huaitie, 06  
 Xu, Cheng, 0N  
 Xu, Xin, 1I  
 Yan, Hua, 03, 19  
 Yan, Liuting, 0Y  
 Yan, Mengzhen, 18  
 Yang, Jie, 0D  
 Yang, Ruyin, 0K  
 Ye, Yang Yang, 16  
 Yin, Deyu, 0P  
 Yu, Ying Kin, 0M  
 Yu, Ying-Hao, 0F  
 Yuniarno, Eko Mulyanto, 0O, 10  
 Zhan, Jie, 1P  
 Zhang, Liang, 0X  
 Zhang, Xi-wen, 0A  
 Zhao, Ruijie, 1F  
 Zhu, Ming, 0I  
 Zhu, Yongfeng, 06  
 Zulueta, Christelle Jianne T., 0B

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## Introduction

In recent years, pattern recognition has become a hot research branch in the field of machine learning. In light of the fast-paced advancements in pattern recognition taking place all over the world, it is of interest to keep an eye on the state-of-the-art research and development and to facilitate collaboration in multidisciplinary research areas. With this end in view, the Second International Workshop on Pattern Recognition was held 1–3 May 2017 in Singapore.

The aim of the conference is to address and deliberate on the latest technical status and recent trends in the research and applications of pattern recognition. This conference has been designed with the view to provide an opportunity for the 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 solicited 113 submitted papers from different countries all over the world. The Proceedings of IWPR 2017 contains 61 selected papers from the conference, which were presented orally or via poster sessions, and provide up-to-date, comprehensive and worldwide state-of-the-art knowledge in this field. Each contributed paper was rigorously reviewed by members of our international organizing and advisory committees, and external reviewers in related fields from all over the world. The Proceedings covers the specific areas as follows: target recognition and tracking, face recognition, image segmentation, image transformation and analysis, medical image analysis and processing, image processing and application, filter design and signal processing, computer information theory and technology.

On behalf of the Organizing Committee, we would like to express our heartfelt gratitude to all the reviewers for their great professionalism and efforts. Thank you to all the participants and sponsors for their valuable contributions and support to IWPR 2017.

**Xudong Jiang**  
**Masayuki Arai**  
**Guojian Chen**

