## **PREFACE**



## Preface (Vol 39. Issue 6, June 2023)

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Accepted: 15 May 2023 / Published online: 1 June 2023 © The Author(s), under exclusive licence to Springer-Verlag GmbH Germany, part of Springer Nature 2023

In this issue, we publish two special sections from two different special issues calls.

The first special issue call contains fifteen (15) best papers from the conference ACIAT202. Some of them are additionally selected from an open call. The theme of this special section that is published here is "Multi-Modality Feature Learning for Visual Understanding".

The lead guest editor of this special section is Professor Zhigang Tu, from Wuhan University in China.

Other invited editors are Dr Zou Ren from Snap Inc., USA, Dr Jun Liu, from Singapore University of Technology and Design, Dr Yang Cong, from Chinese Academy in China, and Dr Lei Zhang, from Chongqing University in China.

- The first paper authored by Fei Liao et al. is "A systematic review on application of deep learning in digestive system image processing". This paper is a survey paper.
- The second paper authored by Fei Zhiqin Zhu et al. is "X-Net: a dual encoding-decoding method in medical image segmentation".
- The third paper authored by Fei Qi Zhu et al. is "Pairwise feature-based generative adversarial network for incomplete multi-modal Alzheimer's disease diagnosis".
- The fourth paper authored by Fei S. Vaidya et al. is "Fingerprint-based robust medical image watermarking in hybrid transform".
- The fifth paper authored by Fei Bo Li et al. is "Object feature selection under high-dimension and few-shot data based on three-way decision".
- The sixth paper authored by Fei Linsen Xu et al. is "A convolution-transformer dual branch network for headpose and occlusion facial expression recognition".
- The seventh paper authored by Fei Zhiqiang Ran et al. is "SAUNet + + : an automatic segmentation model of COVID-19 lesions from CT slices".
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- The eighth paper authored by Fei Chao Wang et al. is "Flow-pose Net: an effective two-stream network for fall detection".
- The ninth paper authored by Fei Fan Gao et al. is "A novel infrared and visible image fusion method based on multilevel saliency integration".
- The tenth paper authored by Fei Lina Zhao et al. is "Point cloud sampling method based on offset-attention and mutual supervision".
- The eleventh paper authored by Fei J. Ranjani et al. is "A paced multi-stage block-wise approach for object detection in thermal images".
- The twelfth paper authored by Fei Yen-Wei Chen et al. is "IDH mutation status prediction by a radiomics associated modality attention network".
- The thirteenth paper authored by Fei Dhiraj Dhane et al. is "Artificial intelligence-assisted cervical dysplasia detection using papanicolaou smear images".
- The fourteenth paper authored by Fei Yafeng Zheng et al. is "VisOJ: real-time visual learning analytics dashboard for online programming judge".
- The fifteenth paper authored by Fei Deepak Gaur et al. is "A new approach to simulate the dynamic behavior of particulate matter using a canny edge detector embedded PIV algorithm".

The second section contains five (5) papers following a call for papers on "**Deep Learning for 3D Segmentation**". This special section has been led by Dr Mingqiang Wei, from Nanjing University in China. Other guest editors are:

Dr Yulan Guo from National University of Defense Technology, China, Dr Xuejin Chen from University of Science and Technology of China, China, Dr Yiping Chen from Xiamen University, China, Dr Weiming Wang from Hong Kong Metropolitan University, Hong Kong, Dr Paul L. Rosin from Cardiff University, the UK, and Dr Yong-Jin Liu from Tsinghua University, China.



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- The first paper authored by Xuefeng Yan et al. is "PV-RCNN++: semantical point-voxel feature interaction for 3D object detection".
- The second paper authored by Li Zhang et al. is "A class of nonstationary interproximate subdivision algorithm for interpolating feature data points".
- The third paper authored by Xiaolei Chen et al. is "Lightweight head pose estimation without keypoints based on multi-scale lightweight neural network".
- The fourth paper authored by Ningzhong Liu et al. is "GADA-SegNet: gated attentive domain adaptation network for semantic segmentation of LiDAR point clouds".
- The fifth paper authored by Dingkun Zhu et al. is "ImGeo-VoteNet: image and geometry co-supported VoteNet for RGB-D object detection".

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