2nd International Conference on Artificial Intelligence, Information Processing and Cloud Computing (AIIPCC 2021)

Hangzhou, China
26-28 June 2021

Editor:

Yu-Dong Zhang

ISBN: 978-1-7138-3562-2

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571

Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2021) by VDE VERLAG GMBH
All rights reserved.

Printed with permission by Curran Associates, Inc. (2022)

For permission requests, please contact VDE VERLAG GMBH
at the address below.

VDE VERLAG GMBH
Bismarckstr. 33
P.O.B. 12 01 43
10625 Berlin, Germany

Phone: +49 30 34 80 01 - 0
Fax: +49 30 34 80 01 - 9088

kundenservice@vde-verlag.de

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

Table of Contents

1 A coil counting model based on full convolution regression neural networks 1
Xixi Liang; Erdun Zhao; Ting Li1; Zhuocheng Lin

2 The active disturbance rejection control for the self-balancing moving platform of cable driven parallel robots 7
Di Xiao; Shangying Zhang; Bao Xiang

3 A visualization method of attack path based on network traffic in power system 13
Zhiyuan Pan; Lisong Shao; Xinxin Song; Wei Wang

4 Privacy-preserving decentralized parameter estimation in edge computing networks 19
Zixiang Wang; Jiajia Han; Shijie Zeng; Jiangfeng Zhang

5 Real time forward solution of redundantly constrained cable driven parallel robots 27
Bao Xiang; Shangying Zhang; Di Xiao

6 Typhoon disaster damage assessment and disaster situation web visualization based on NPP-VIIRS nighttime light remote 32
Yuanrong He; Xiaorong Wang; Dongkun Li; Zhiying Xie; Chunfang Chai

7 Audio replay spoofing attack detection using deep learning feature and long-short-term memory recurrent neural network 40
Lian Huang; Jinhong Zhao

8 An overview location navigation and path planning for automated guided vehicle 45
Hongshan Chu; Yanhua Zhang; Jinchao Xiao; Shuangfei Zi; Wenhong Wang

9 Learned descriptor using dynamical exponential algorithm 51
Jianhua Yin; Cong Liu; Jie Wen; Junhong Chen; Jun Jiang; Hui Liu; Longzhen Zhu

10 Construction and application of the dynamic supervision system for the mining of mineral resources 56
Zhiying Xie; Hang Lu; Wenfu Yang; Yuanrong He

11 Image steganalysis via squeeze-and-excitation and separable convolutional neural network 64
Jingtai Li; Xiaodan Wang; Yafei Song; Shuo Wang

12 Face recognition based on deep learning 68
Yukun Fu; Zhaogong Zhang

13 Application of the evolutionary algorithms for task allocation in uncertain environments with stochastic 73
Senbo Kang; Jie Li; Juan Li; Jing Xiong; Chang Liu

14 Real-time supervision system for mining resources based on video surveillance 80
Zhiying Xie; Qihao Liang; Yuanrong He; Huarong Xu

15 Overview of unmanned surface vessel coverage path planning techniques 87
Shuai Xue; Qinghui Wang; Jinchao Xiao; Jihai Liu; Junfeng Xiong

16 Keyboard and mouse operation based computer gaming state detection method 94
Fei Chen; Jinliang Yao

17 Azimuth signal reconstruction for hrws-sar from uniform resampling 100
Hanqing Zhang; Lin Wu; Ning Li

18 Prediction of spread trend of epidemic based on spatial-temporal sequence 105
Liying Xie; Yishu Luo; Qiao Pan

19 A solution for ARP attacks in software defined network 110
Xiaohan Zhang; Lu Cao; Zuojun Meng; Xiaohui Yao