



*Front. Inform.
Technol. Elec-
tron. Eng.*

Administrated by
Chinese Academy of Engineering

Sponsored by
Chinese Academy of Engineering
& Zhejiang University

Published by
Springer & Zhejiang University
Press

Edited by
Editorial Office of *Journal of
Zhejiang University-SCIENCE
& FITEE*

Printed by
Hangzhou Shengyuan Printing
Services Co., Ltd.

Publication Date
1st Week per Month

Price (Domestic)
160 CNY/Issue

ISSN 2095-9184
CN 33-1389/TP

CONTENTS

Review Articles

1119 Review of compact computational spectral information acquisition systems

Hongya SONG, Wenyi ZHANG, Haifeng LI, Xu LIU, Xiang HAO

1134 Chip-based waveguides for high-sensitivity biosensing and super-resolution imaging

Chen-lei PANG, Xu LIU, Wei CHEN, Qing YANG

Research Articles

1150 A novel convolutional neural network method for crowd counting

Jie-hao HUANG, Xiao-guang DI, Jun-de WU, Ai-yue CHEN

1161 Texture branch network for chronic kidney disease screening based on ultrasound images

Peng-yi HAO, Zhen-yu XU, Shu-yuan TIAN, Fu-li WU, Wei CHEN, Jian WU, Xiao-nan LUO

1171 A many-objective evolutionary algorithm based on decomposition with dynamic resource allocation for irregular optimization

Ming-gang DONG, Bao LIU, Chao JING

1191 A non-Lambertian photometric stereo under perspective projection

Min LI, Chang-yu DIAO, Duan-qing XU, Wei XING, Dong-ming LU

1206 HAM: a deep collaborative ranking method incorporating textual information

Cheng-wei WANG, Teng-fei ZHOU, Chen CHEN, Tian-lei HU, Gang CHEN

1217 Automatic traceability link recovery via active learning

Tian-bao DU, Guo-hua SHEN, Zhi-qiu HUANG, Yao-shen YU, De-xiang WU

1226 Subway rail transit monitoring by built-in sensor platform of smartphone

Jian-li CONG, Ming-yuan GAO, Yuan WANG, Rong CHEN, Ping WANG

1239 A fast integral sliding mode controller with an extended state observer for position control of permanent magnet synchronous motor servo systems

Jun-feng JIANG, Xiao-jun ZHOU, Wei ZHAO, Wei LI, Wen-dong ZHANG

1251 Efficient coherent detection of maneuvering targets based on location rotation transform and non-uniform fast Fourier transform

Ke JIN, Tao LAI, Yan-li QI, Jie HUANG, Yong-jun ZHAO



*Front. Inform.
Technol. Elec-
tron. Eng.*