

目次

专栏：机器学习

多通道图注意力解耦社交推荐方法····· 洪明利,王靖,贾彩燕(1)

带局部交流函数及自由意志的单领导 Cucker-Smale 模型的渐近集群分析····· 赵子玉,刘易成(10)

融合图嵌入的光滑主成分分析网络图像识别算法····· 陈飞玥,朱玉莲,田甲略,蒋珂(16)

面向蛋白质功能预测中有向无环图标记结构的多示例多标记学习
····· 吴建盛,唐诗迪,梅德进,朱燕翔,刁业敏(23)

面向多最优解组合优化问题的决策求解算法····· 胡振震,袁唯淋,罗俊仁,邹明我,陈璟(31)

面向时空交通栅格流量预测的3D通道注意力网络····· 童凯南,林友芳,刘军,郭晟楠,万怀宇(41)

基于不稳定性采样的主动学习方法····· 何花,谢明昆,黄圣君(50)

融合空间偏好和语义的个体活动识别方法····· 郭茂祖,陈加栋,张彬,赵玲玲,李阳(57)

多核贝叶斯优化的模型决策树算法····· 高虹雷,门昌骞,王文剑(67)

众包标签的双重置信度推断算法····· 张琳,姜高霞,王文剑(77)

上下文感知的深度弱监督图像哈希表示学习方法····· 刘萌,周迪,田传发,齐孟津,聂秀山(85)

航天工程·机械工程·材料科学与工程

隐身飞机 RCS 测量与成像方法研究综述····· 贾高伟,阴鹏,邵帅,王建峰(93)

混合不确定条件下的飞行器级间分离可靠性分析····· 聂兆伟,王浩,秦梦,张海瑞(104)

推进剂“脱湿”损伤研究的内聚力单元方法····· 崔辉如,吕轩,许玉荣(112)

伞衣优化设计对群伞系统气动特性的影响分析····· 董海波,隋蓉,黄明星(121)

太阳风作用下航天器表面充电效应分析····· 郝建红,黄赛,赵强,范杰清,张芳,董志伟(131)

可调喷油规律下喷油提前角对柴油机性能的影响····· 杨昆,周磊,赵建华,聂涛,刘楠(139)

TA2-B10管不同电偶腐蚀防护方式对B10管腐蚀特性的影响····· 夏江敏,李竹影,林育锋,陈页骅(148)

电子科学与技术·计算机科学与技术·管理科学与工程

电磁轨道发射装置动态电感梯度分析····· 翟小飞,李鑫航,刘华,彭之然(156)

联合生成对抗网络和检测网络的SAR图像目标检测····· 韩子硕,王春平,付强,赵斌(164)

基于等效电路和点电流源的潜艇水下腐蚀电场估算····· 赵玉龙,刘春阳,周丹(176)

决策树报文分类算法····· 吕高锋,谭靖,乔冠杰,严锦立(184)

层次聚类算法和基于图的分割算法相融合的图像分割算法····· 郭昕刚,王佳,程超(194)

新型小规模装备备件品种确定的犹豫模糊粗糙集决策方法····· 杨超,侯兴明,陈小卫,秦海峰,张琳琳(201)

JOURNAL OF NATIONAL UNIVERSITY OF DEFENSE TECHNOLOGY

Vol. 44 No. 3

June 2022

CONTENTS

Special Column: Machine Learning

- Multi-channel graph attention network with disentangling capability for social recommendation ... HONG Mingli, WANG Jing, JIA Caiyan (1)
- Asymptotic cluster analysis of single-leader Cucker-Smale model with local interchange function and free will ... ZHAO Ziyu, LIU Yicheng (10)
- Smooth principal component analysis network image recognition algorithm with fusion graph embedding
..... CHEN Feiyue, ZHU Yulian, TIAN Jialue, JIANG Ke (16)
- Multi-instance multi-label learning for labels with directed acyclic graph structures in protein function prediction
..... WU Jiansheng, TANG Shidi, MEI Dejin, ZHU Yanxiang, DIAO Yemin (23)
- Decision solving algorithm for multiple optimal solution combinatorial optimization problem
..... HU Zhenzhen, YUAN Weilin, LUO Junren, ZOU Mingwo, CHEN Jing (31)
- 3D channel-wise attention network for spatio-temporal traffic raster flow prediction
..... TONG Kainan, LIN Youfang, LIU Jun, GUO Shengnan, WAN Huaiyu (41)
- Active learning method based on instability sampling HE Hua, XIE Mingkun, HUANG Shengjun (50)
- Method for individual activities recognition incorporating spatial preference and semantics
..... GUO Maozu, CHEN Jiadong, ZHANG Bin, ZHAO Lingling, LI Yang (57)
- Algorithm for model decision tree with multi-kernel Bayesian optimization GAO Honglei, MEN Changqian, WANG Wenjian (67)
- Crowdsourced label inference algorithm using double-confidence ZHANG Lin, JIANG Gaoxia, WANG Wenjian (77)
- Context-aware deep weakly supervised image hashing learning method
..... LIU Meng, ZHOU Di, TIAN Chuanfa, QI Mengjin, NIE Xiushan (85)

Aerospace Engineering · Mechanical Engineering · Materials Science and Engineering

- Review of RCS measurement and imaging methods of stealth aircraft JIA Gaowei, YIN Peng, SHAO Shuai, WANG Jianfeng (93)
- Reliability analysis of flight vehicle stage separation under mixed uncertainties ... NIE Zhaowei, WANG Hao, QIN Meng, ZHANG Hairui (104)
- Cohesive element method for "dewetting" damage research of propellant CUI Huiru, LYU Xuan, XU Yurong (112)
- Analysis of the influence of canopy optimization design on aerodynamic characteristics of cluster parachute system
..... DONG Haibo, SUI Rong, HUANG Mingxing (121)
- Analysis of charging effect on spacecraft surface under solar wind
..... HAO Jianhong, HUANG Sai, ZHAO Qiang, FAN Jieqing, ZHANG Fang, DONG Zhiwei (131)
- Effect of fuel injection advance angle on diesel engine performance under the condition of adjustable fuel injection law
..... YANG Kun, ZHOU Lei, ZHAO Jianhua, NIE Tao, LIU Nan (139)
- Influence of different galvanic corrosion protection methods of TA2 – B10 pipe on the corrosion characteristics of B10 pipe
..... XIA Jiangmin, LI Zhuying, LIN Yufeng, CHEN Yexing (148)

Electronic Science and Technology · Computer Science and Technology · Management Science and Engineering

- Analysis of dynamic inductance gradient of electromagnetic rail launcher ZHAI Xiaofei, LI Xinhang, LIU Hua, PENG Zhiran (156)
- Target detection in SAR images based on joint generative adversarial network and detection network
..... HAN Zishuo, WANG Chunping, FU Qiang, ZHAO Bin (164)
- Estimation of submarine underwater corrosion electric field based on equivalent circuit and point current source
..... ZHAO Yulong, LIU Chunyang, ZHOU Dan (176)
- Decision tree algorithm for packet classification LYU Gaofeng, TAN Jing, QIAO Guanjie, YAN Jinli (184)
- Image segmentation algorithm combining hierarchical clustering algorithm and graph-based segmentation algorithm
..... GUO Xingang, WANG Jia, CHENG Chao (194)
- Hesitant fuzzy rough set decision-making method for determining spare parts variety of new small-scale equipment
..... YANG Chao, HOU Xingming, CHEN Xiaowei, QIN Haifeng, ZHANG Linlin (201)