

控制理论与应用

第41卷 第3期 2024年3月

目次

“人工智能驱动的过程工业自动化与智能化”专刊

前言	(373)
集成数据挖掘知识的可解释最优超球体支持向量机	陆思洁, 范 颀, 渐 令, 郜传厚 (375)
具有双储层结构的动态误差补偿回声状态网络	张昭昭, 朱应钦, 余 文 (385)
基于超图正则化的域适应偏最小二乘多工况软测量模型	霍海丹, 阎高伟, 王 芳, 任密峰, 程 兰, 李 荣 (396)
奇异值分解下在线鲁棒正则化随机网络	于 洋, 邓 瑞, 余 刚, 庞新富 (407)
工业过程关键指标预测的知识协同进化增强图卷积网络方法(英文)	牟天昊, 邹媛媛, 李少远 (416)
基于知识蒸馏的钢铁高炉煤气系统建模方法	金 锋, 陈薇琳, 赵博识, 赵 珺, 王 伟 (428)
基于稀疏表示剪枝集成建模的烧结终点位置智能预测	周 平, 吴忠卫, 张瑞垚, 吴永建 (436)
基于工况知识引导注意力时间卷积网络的烧结终点预测	方怡静, 蒋朝辉, 桂卫华, 潘 冬 (447)
基于多任务学习多目标优化的稀土元素组分含量与浓度多维度软测量	张水平, 张奇涵, 王 碧 (454)
透射光谱线性空间核学习建模求解多组分浓度	宋江婷, 金福江, 周丽春 (468)
面向锂电池少量循环的二维支持域直推式健康状态预测	王一航, 冯良骏, 赵春晖 (474)
数据驱动的城市固废焚烧过程烟气含氧量预测控制	孙 剑, 蒙 西, 乔俊飞 (484)
复杂工况下选择性催化还原脱硝系统的迁移强化学习控制	孙小明, 彭 晨, 程传良 (496)
基于强化学习的多技能项目调度算法	胡振涛, 崔南方, 胡雪君, 雷晓琪 (502)
融入概率学习的混合差分进化算法求解绿色分布式可重入作业车间调度	胡 蓉, 伍 星, 毛剑琳, 钱 斌 (512)
考虑不确定生产因素的表面组装生产线负载平衡优化模型	张怀权, 黄春跃, 梁 颖, 廖帅冬 (522)
计及多元不确定性的综合能源系统优化配置	周 帆, 陈 龙, 赵 珺, 王 伟 (533)
频域多方向C-UNet及动态损失的工业烟尘图像分割	张大锦, 刘 辉, 陈甫刚, 赵 安 (543)
多元纹理图像构造方法及应用	卢 明, 王 程, 谢永芳 (555)
基本概率赋值不确定性的广义度量及在证据组合中的应用	于 爽, 王 欣 (567)
面向注塑产品工艺缺陷的知识图谱构建方法及应用	葛睿夫, 任志刚, 林江豪, 林 越, 高祖标 (577)

* * * *

《控制理论与应用》征稿简则	(586)
---------------------	-------

CONTROL THEORY & APPLICATIONS

Vol. 41 No. 3 Mar. 2024

CONTENTS

Special Issue on ‘AI-Driven Process Industry Automation and Intelligence’

Preface	(373)
Interpretable small sphere and large margin support vector machine with integrated data mining knowledge LU Si-jie, FAN Di, JIAN Ling, GAO Chuan-hou	(375)
A new echo state network with a double reservoir compensates for dynamic error ZHANG Zhao-zhao, ZHU Ying-qin, YU Wen	(385)
Multi-condition soft sensor modeling of domain adaptation partial least squares based on hypergraph regularization HUO Hai-dan, YAN Gao-wei, WANG Fang, REN Mi-feng, CHENG Lan, LI Rong	(396)
Online robust regularized random networks under singular value decomposition YU Yang, DENG Rui, YU Gang, PANG Xin-fu	(407)
Enhancing graph convolutional network of knowledge-based co-evolution for industrial process key variable prediction MOU Tian-hao, ZOU Yuan-yuan, LI Shao-yuan	(416)
A knowledge distillation-based modeling method for blast furnace gas system in steel industry JIN Feng, CHEN Wei-lin, ZHAO Bo-shi, ZHAO Jun, WANG Wei	(428)
Intelligent prediction of burning through point based on sparse representation pruning ensemble modeling ZHOU Ping, WU Zhong-wei, ZHANG Rui-yao, WU Yong-jian	(436)
Burning through point prediction based on working condition knowledge guided attention mechanism temporal convolutional network FANG Yi-jing, JIANG Zhao-hui, GUI Wei-hua, PAN Dong	(447)
Content and concentration of rare earth element components based on multi-task learning multi-objective optimization multi-dimensional soft measurement ZHANG Shui-ping, ZHANG Qi-han, WANG Bi	(454)
Kernel learning modeling for solving multi-component concentrations with linear space of transmission spectra SONG Jiang-ting, JIN Fu-jiang, ZHOU Li-chun	(468)
Lithium battery two-dimensional region of support transductive learning and state of health prediction oriented to few charge-discharge cycles WANG Yi-hang, FENG Liang-jun, ZHAO Chun-hui	(474)
Data-driven predictive control of oxygen content in flue gas for municipal solid waste incineration process SUN Jian, MENG Xi, QIAO Jun-fei	(484)
Transfer reinforcement learning control for a selective catalytic reduction denitration system under complex conditions SUN Xiao-ming, PENG Chen, CHENG Chuan-liang	(496)
Reinforcement learning-based algorithm for multi-skill project scheduling problem HU Zhen-tao, CUI Nan-fang, HU Xue-jun, LEI Xiao-qi	(502)
Hybrid differential evolution integrated with probability learning for green distributed reentrant job shop scheduling HU Rong, WU Xing, MAO Jian-lin, QIAN Bin	(512)
Load balance optimization model of surface-mount production line considering uncertain production factors ZHANG Huai-quan, HUANG Chun-yue, LIANG Ying, LIAO Shuai-dong	(522)
Optimal configuration for integrated energy system considering multiple uncertainties ZHOU Fan, CHEN Long, ZHAO Jun, WANG Wei	(533)
Industrial smoke image segmentation based on frequency domain multi-directional C-UNet and dynamic loss ZHANG Da-jin, LIU Hui, CHEN Fu-gang, ZHAO An	(543)
Construction method and application of multivariate texture image LU Ming, WANG Cheng, XIE Yong-fang	(555)
A generalized measure of basic probability assignment uncertainty and its application in evidence combination YU Shuang, WANG Xin	(567)
Construction method and application of knowledge graph for process defect of injection molding products GE Rui-fu, REN Zhi-gang, LIN Jiang-hao, LIN Yue, GAO Zu-biao	(577)