# 控制理论与应用

# 第40卷 第11期 2023年11月

## 目 次

#### 滑模控制理论与应用最新进展

网联车辆有限时间滑模预设性能队列控制		高振	宇,	孙振超	,郭	戈 (1891)
自同步型并网逆变器有限时间全阶终端滑模控制研究	郑雪梅,	时	旭,	陈 鑫	, 冯	勇 (1903)
受扰直流降压变换器自适应离散滑模控制设计与实现				王 佐	,刘	鵬 (1911)
基于自适应滑模观测器的高铁牵引系统单相三电平整流器开路故障	诊断					
许水清, 王 健,	胡友强	,张	可,	江 萍	,柴	毅 (1920)
基于过零检测的Buck变换器自适应连续滑模控制·····王艳敏,	张伟琦	, 龙	굸,	张涵清	, 冯	勇 (1931)
自适应比例-积分H2滑模观测器设计·····	王心怡	, 许	璟,	牛玉刚	,贾廷	纲 (1940)
滑模控制下多Euler-Lagrange系统预设时间二分一致性 · · · · · · · · ·	陶 梦	,刘刁	\洋,	曹进德	, 邵	劭 (1949)
双事件触发下非匹配干扰系统积分滑模抗干扰跟踪控制	. 周 鹏	,裔	扬,	朱广宇	, 王	芹 (1957)
基于有限时间扰动观测器的水厂加矾系统二阶滑模控制 · · · 王冬生	,张 鹏	,孙钊	帛昊,	郭若寒	, 蒋国	平 (1965)
基于干扰观测器的航天器非奇异终端二阶滑模控制		李佳	玮,	刘明	,曹喜	滨 (1972)
基于新型固定时间稳定方法的一类二阶非线性系统镇定控制		. 邹	权,	佟明昊	,魏	凯 (1981)
基于高阶滑模观测器的永磁同步电机无差拍预测电流控制						
······徐睿琦, 张昆鹏,	林欣魄,	孔德	ĘШ,	刘 壮	,刘健	行 (1990)
基于预见与PI补偿的不确定非线性系统鲁棒滑模控制······		兰永	红,	吴瑾怡	,周宇	玺 (1999)
综述与评论						
动力系统可辨识性研究综述		曾哲	璇,	岳作功	袁	烨 (2007)
论文与报告						
基于近端凸差分方法的多层卷积变换学习算法 · · · · · · · · · · · · · · · · · · ·	郭泳潛	唐俳	浩	李珍妮	吕	俊 (2019)
考虑合作博弈的风-光-液态空气储能集群日前市场不确定性优化方		/H K	.т <b>ы</b> ,	1 12 //6	, н	(2017)
		. 晏才	_鑫.	裘智峰	. 干春	生 (2028)
基于整体辨识策略的非线性自适应控制方法 · · · · · · · 张政煊,						` ′
燃料电池供气系统的自适应滑模控制 · · · · · · · 秦 彪, 王新立,						` ,
可重入柔性流水车间有限缓冲区容量动态预留方法						
					,	
* * * *						

## **CONTROL THEORY & APPLICATIONS**

Vol. 40 No. 11 Nov. 2023

### **CONTENTS**

### **New Developments in Sliding Mode Control Theory and Its Applications**

Finite-time sliding mode prescribed performance platoon control of connected vehicles					
····· GAO Zhen-yu, SUN Zhen-chao, GUO Ge (1891)					
Research on finite-time full-order sliding mode control of self-synchronous grid-connected inverter					
ZHENG Xue-mei, SHI Xu, CHEN Xin, FNEG Yong (1903)					
Adaptive discrete-time sliding mode control design and implementation for DC-DC buck converters with disturbances					
WANG Zuo, LIU Peng (1911)					
Open-circuit fault diagnosis of single-phase three-level rectifier in high-speed train traction system based on adaptive sliding					
mode observer · · · · · · · XU Shui-qing, WANG Jian, HU You-qiang, ZHANG Ke, JIANG Ping, CHAI Yi (1920)					
Adaptive continuous sliding mode control of Buck converters based on zero-crossing detection					
WANG Yan-min, ZHANG Wei-qi, LONG Yun, ZHANG Han-qing, FENG Yong (1931)					
Adaptive proportional-integral H <sub>2</sub> sliding mode observer design					
WANG Xin-yi, XU Jing, NIU Yu-gang, JIA Ting-gang (1940)					
Prescribed-time bipartite consensus of multiple Euler-Lagrange systems via sliding-mode control					
TAO Meng, LIU Xiao-yang, CAO Jin-de, SHAO Shao (1949)					
Integral sliding mode anti-disturbance tracking control for unmatched disturbance systems under double event triggering					
ZHOU Peng, YI Yang, ZHU Guang-yu, WANG Qin (1957)					
Second-order sliding mode control based on finite-time disturbance observer for alum dosing system of water plant					
WANG Dong-sheng, ZHANG Peng, SUN Jin-hao, GUO Ruo-han, JIANG Guo-ping (1965)					
Non-singular terminal second-order sliding mode control of spacecraft on disturbance observer					
LI Jia-wei, LIU Ming, CAO Xi-bin (1972)					
Stabilization control for a class of second order nonlinear system using a new fixed-time stable method					
Deadbeat predictive current control of permanent magnet synchronous motor based on higher order sliding mode observer					
XU Rui-qi, ZHANG Kun-peng, LIN Xin-po, KONG De-shan, LIU Zhuang, LIU Jian-xing (1990)					
Robust sliding mode control for uncertain nonlinear systems based on preview and PI compensation					
LAN Yong-hong, WU Jin-yi, ZHOU Yu-xi (1999)					
Survey and Reviews					
A survey of identifiability problems in dynamical systems · · · · · · · ZENG Zhe-xuan, YUE Zuo-gong, YUAN Ye (2007)					
Papers and Reports					
Multi-layer convolutional transform learning algorithm based on proximal difference of convex method					
GUO Yong-cheng, TANG Jian-hao, LI Zhen-ni, LÜ Jun (2019)					
Uncertain optimization of wind-photovoltaic-liquid air energy storage cluster based on cooperative game in day-ahead market					
Nonlinear adaptive control method based on global identification strategy					
ZHANG Zheng-xuan, YANG Yi-zhuo, DAI Wei, ZHOU Ping, YANG Chun-yu (2039)					
Adaptive slide mode control of gas feeding of proton exchange membrane fuel cell system					
QIN Biao, WANG Xin-li, WANG Lei, PAN Feng-wen, CHEN Wen-miao, JIA Lei (2049)					
Dynamic reservation method of limited buffer capacity in reentrant flexible flow-shop					
HAN Zhong-hua, LIU Yue-han, SHI Hai-bo (2059)					