

中国科学: 信息科学
SCIENTIA SINICA Informationis
(ZHONGGUO KEXUE XINXI KEXUE)

第 55 卷 第 12 期 2025 年 12 月

目 次

《中国科学》创刊 75 周年专刊

三维人体重建与生成的深度学习方法.....	2941
国孟昊, 李东阳, 彭浩洋, 张嘉鹏, 胡事民	
多智能体系统分布式优化综述与前瞻.....	2965
姜霞, 曾宪琳, 孙健, 陈杰	
智能仿生扑翼飞行机器人研究进展	2991
孟亭亭, 吴晓阳, 付强, 贺威	
控制科学赋能智慧农业发展的挑战性问题.....	3012
李鸿一, 何兴, 王欣, 李华青, 谢守勇, 王进军	
广域确定性网络研究综述.....	3039
汪硕, 黄韬, 李桂珍, 吴斌伟, 彭国宇, 杨浙琪, 李亚博, 刘韵洁	
多模态网络环境构建技术研究与发展.....	3060
尤佳莉, 邬江兴	
二维半导体的迁移率物理模型与仿真.....	3080
董先声, 施毅, 黎松林	
3D NAND 闪存技术的演进趋势与挑战	3099
霍宗亮, 夏志良, 陈南翔	
仿欧椋鸟分岔—聚集自适应控制在复杂多障碍环境中的无人机集群协同.....	3114
梅宇, 段海滨, 魏晨	
刊 讯	
太赫兹通信专题简介.....	3129
韩充, 朱敏, 陈智, 余建军, Josep M. JORNET, Wolfgang H. GERSTACKER	

Contents

Special Issue: Celebrating the 75th Anniversary of Science China

Deep learning methods for 3D human body reconstruction and generation	2941
Meng-Hao GUO, Dong-Yang LI, Hao-Yang PENG, Jia-Peng ZHANG & Shi-Min HU	
Survey and prospects of distributed optimization in multi-agent systems	2965
Xia JIANG, Xianlin ZENG, Jian SUN & Jie CHEN	
Research progress on intelligent bionic flapping-wing robots	2991
Tingting MENG, Xiaoyang WU, Qiang FU & Wei HE	
Challenging issues in empowering smart agriculture development with control science	3012
Hongyi LI, Xing HE, Xin WANG, Huaqing LI, Shouyong XIE & Jin-Jun WANG	
Survey of wide-area deterministic networks	3039
Shuo WANG, Tao HUANG, Guizhen LI, Binwei WU, Guoyu PENG, Zheqi YANG, Yabo LI & Yunjie LIU	
Research and development of construction technologies about polymorphic network environment	3060
Jiali YOU & Jiangxing WU	
Physical models and simulation of carrier mobility in two-dimensional semiconductors	3080
Xiansheng DONG, Yi SHI & Songlin LI	
Evolution trends and challenges of 3D NAND flash memory technology	3099
Zongliang HUO, Zhiliang XIA & Nanxiang CHEN	
Starling-inspired bifurcation-aggregation adaptive control for UAV swarms in complex multi-obstacle environments	3114
Yu MEI, Haibin DUAN & Chen WEI	

EDITORIAL NOTE

Special topic: terahertz communications for 6G and beyond: how far are we?	3129
Chong HAN, Min ZHU, Zhi CHEN, Jianjun YU, Josep M. JORNET, Wolfgang H. GERSTACKER	