

第 52 卷 第 10 期 2022 年 10 月

目 次

评述

| | |
|----------------------------------|------|
| 电注入下的人工微结构模式调控激光研究进展 | 1727 |
| 傅廷, 陈静瑄, 王学友, 徐林海, 王宇飞, 王明金, 郑婉华 | |
| 语言认知与语言计算——人与机器的语言理解 | 1748 |
| 王少楠, 丁鼐, 林楠, 张家俊, 宗成庆 | |

论文

| | |
|--------------------------------|------|
| 细粒度建模用户兴趣的序列化推荐方法 | 1775 |
| 张麒, 吴宾, 孙中川, 叶阳东 | |
| 基于特征增广的生成—判别混合模型构建方法 | 1792 |
| 张文钧, 蒋良孝, 张欢 | |
| 基于句法模板采样的无监督复述生成方法 | 1808 |
| 鲍宇, 黄书剑, 周浩, 李磊, 戴新宇, 陈家骏 | |
| 基于弹性分析与函数回归模型的示教轨迹学习与泛化方法 | 1822 |
| 肖宏远, 刘成菊, 陈启军 | |
| 非线性递推辨识理论在量刑数据分析中的应用 | 1837 |
| 王芳, 张蓝天, 郭雷 | |
| 非正障碍函数: 面向非线性系统状态安全控制的一类新颖障碍函数 | 1853 |
| 朱哲人, 张新民, 柴毅, 宋执环 | |
| 知识嵌入式图神经网络在风机多元状态预测中的应用 | 1870 |
| 刘颖, 李阳光, 瞿树晖, 董纪昌, 王竞凡 | |
| 基于数能同传的 D2D 网络鲁棒资源分配算法 | 1883 |
| 徐勇军, 杨蒙, 周继华, 陈前斌 | |
| 基于散射图卷积网络的 PolSAR 影像地物分类 | 1900 |
| 刘旭, 李玲玲, 刘芳, 杨淑媛, 侯彪, 焦李成 | |
| 频谱共生干扰主动抑制技术研究 | 1915 |
| 郭文博, 林朗, 赵宏志, 唐友喜 | |

观点与争鸣

| | |
|----------------|------|
| 论网络空间内生安全问题及对策 | 1929 |
| 邬江兴 | |

人物风采

| | |
|-------|------|
| 郑婉华院士 | 1938 |
|-------|------|

Main Contents

REVIEW

- Advances in the mode controls of electrically injected lasers based on artificial microstructures 1727
Ting FU, Jingxuan CHEN, Xueyou WANG, Linhai XU, Yufei WANG,
Mingjin WANG & Wanhuai ZHENG

- Language cognition and language computation—human and machine language understanding 1748
Shaonan WANG, Nai DING, Nan LIN, Jiajun ZHANG & Chengqing ZONG

RESEARCH PAPER

- Fine-grained modeling of user interests for sequential recommendation 1775
Qi ZHANG, Bin WU, Zhongchuan SUN & Yangdong YE
- A feature augmentation-based method for constructing generative-discriminative hybrid models 1792
Wenjun ZHANG, Liangxiao JIANG & Huan ZHANG
- Unsupervised paraphrasing via syntactic template sampling 1808
Yu BAO, Shujian HUANG, Hao ZHOU, Lei LI, Xinyu DAI & Jiajun CHEN
- Learning and generalizing demonstration trajectories based on elastic analysis and the functional regression model 1822
Hongyuan XIAO, Chengju LIU & Qijun CHEN
- Applications of nonlinear recursive identification theory in sentencing data analyses 1837
Fang WANG, Lantian ZHANG & Lei GUO
- Non-positive barrier function: a new notion of barrier function for state-safety control of nonlinear dynamical systems 1853
Zheren ZHU, Xinmin ZHANG, Yi CHAI & Zhihuan SONG
- Application of knowledge-embedded graph neural network for multivariate state prediction of wind turbines 1870
Ying LIU, Yangguang LI, Shuhui QU, Jichang DONG & Jingfan WANG
- Robust resource allocation algorithm in SWIPT-based D2D networks 1883
Yongjun XU, Meng YANG, Jihua ZHOU & Qianbin CHEN
- Scattering graph convolutional network-based PolSAR image classification 1900
Xu LIU, Lingling LI, Fang LIU, Shuyuan YANG, Biao HOU & Licheng JIAO
- Research on the active cancellation technology of spectrum symbiotic interference 1915
Wenbo GUO, Lang LIN, Hongzhi ZHAO & Youxi TANG

CRITIQUES & DEBATES

- Cyberspace's endogenous safety and security problem and the countermeasures 1929
Jiangxing WU