

目      次

**复杂场景下目标协同智能检测专题**

编者按.....	1941
朱中梁, 廖桂生, 郭福成, 王鼎	
针对超视距短波辐射源的测角与测时差协同定位方法.....	1942
王鼎, 尹洁昕, 朱中梁	
基于地球高程信息的运动辐射源时差频差无源定位算法.....	1974
裴禹豪, 张敏, 郭福成, 王焱	
无线信号交汇定位的奇异解问题表征与解决.....	1992
刘公绪, 李龙, 路建民, 高新波	
基于空间稀疏采样的频谱态势生成: 模型与算法.....	2011
张国勇, 王军, 陈霄南, 武刚	

**论文**

基于解析图嵌入和加权图卷积网络的知识图谱补全.....	2037
罗妹秋, 张春霞, 彭成, 张鑫, 郭贵锁, 牛振东	
基于全局结构差异与局部注意力的变化检测.....	2058
梅杰, 程明明	
附加偏见预测器辅助的均衡化场景图生成.....	2075
王文彬, 王瑞平, 陈熙霖	
具有学习和推理能力的空间无人系统智能架构.....	2093
黄煌, 李谋, 刘磊, 汤亮, 刘昊, 谢心如, 刘乃龙, 魏春岭, 邢琰, 姜甜甜, 胡海东, 常亚菲, 胡勇, 杨孟飞	
旋转导向钻井工具装备的微小故障检测.....	2106
盛立, 牛艺春, 刘诗洋, 王伟亮, 高明, 周东华	
车站封锁下基于问题知识的高速铁路列车运行实时调整方法.....	2121
王荣笙, 张琦, 张涛, 林鹏, 丁舒忻, 袁志明	
一种面向无人机智能通信的信息物理融合框架.....	2141
王海军, 赵海涛, 任保全, 马东堂, 张姣, 熊俊, 魏急波, 尹浩	
130~170 GHz 平坦毫米波噪声信号产生技术.....	2155
孙粤辉, 郭亚, 王云才, 刘文杰, 黄海碧, 黄奕敏, 秦玉文	

## Main Contents

### Special Focus on Cooperative and Intelligent Detection of Targets in Complex Environment

- Novel cooperative localization method of over-the-horizon shortwave emitters based on direction-of-arrival and time-difference-of-arrival measurements ..... 1942  
Ding WANG, Jiexin YIN & Zhongliang ZHU
- Moving source localization using TDOA and FDOA measurements in the presence of altitude knowledge ..... 1974  
Yuhao PEI, Min ZHANG, Fucheng GUO & Yao WANG
- Representation and solution of singular positioning issues from wireless signal intersection location technology ..... 1992  
Gongxu LIU, Long LI, Jianmin LU & Xinbo GAO
- Spectrum situation generation from sparse spatial sampling: model and algorithm ..... 2011  
Guoyong ZHANG, Jun WANG, Xiaonan CHEN & Gang WU

### RESEARCH PAPER

- Knowledge graph completion based on parsing graph embedding and a weighted graph convolutional network ..... 2037  
Meiqiu LUO, Chunxia ZHANG, Cheng PENG, Xin ZHANG, Guisuo GUO & Zhendong NIU
- Damage assessment with global differences and local attention ..... 2058  
Jie MEI & Ming-Ming CHENG
- Balanced scene graph generation assisted by an additional biased predictor ..... 2075  
Wenbin WANG, Ruiping WANG & Xilin CHEN
- Intelligent architecture of space unmanned system with learning and reasoning capabilities ..... 2093  
Huang HUANG, Mou LI, Lei LIU, Liang TANG, Hao LIU, Xinru XIE, Nailong LIU, Chunling WEI, Yan XING, Tiantian JIANG, Haidong HU, Yafei CHANG, Yong HU & Mengfei YANG
- Incipient fault detection of rotary steerable drilling tool equipment ..... 2106  
Li SHENG, Yichun NIU, Shiyang LIU, Weiliang WANG, Ming GAO & Donghua ZHOU
- Real-time rescheduling approach of train operation for high-speed railways using problem-specific knowledge under a station blockage ..... 2121  
Rongsheng WANG, Qi ZHANG, Tao ZHANG, Peng LIN, Shuxin DING & Zhiming YUAN
- Cyber-physical framework for UAV intelligent communications ..... 2141  
Haijun WANG, Haitao ZHAO, Baoquan REN, Dongtang MA, Jiao ZHANG, Jun XIONG, Jibo WEI & Hao YIN
- Generation of 130–170 GHz flat millimeter-wave noise signal ..... 2155  
Yuehui SUN, Ya GUO, Yuncai WANG, Wenjie LIU, Haibi HUANG, Yimin HUANG & Yuwen QIN