

EI数据库收录期刊

第43卷 | 第7期
Vol.43 | No.7

2021.7

电子与信息学报

JOURNAL OF ELECTRONICS & INFORMATION TECHNOLOGY



封面文章：电动汽车锂离子电池SoC估算方法研究综述/p1803

Review of SoC Estimation Methods for Electric Vehicle Li-ion Batteries

万方数据



电子与信息学报

DIANZI YU XINXI XUEBAO

第43卷第7期 2021年7月

目 次

综述

电动汽车锂离子电池荷电状态估算方法研究综述 张照娓, 郭天滋, 高明煜, 何志伟, 董哲康 (1803)

电路与系统设计

一种基于峰度系数的脉冲噪声检测算法的研究及其FPGA实现 周晓波, 王 洪, 周郭飞 (1816)

高性能Ed25519算法硬件架构设计与实现 于 斌, 黄 海, 刘志伟, 赵石磊, 那 宁 (1821)

改进神经网络的图像识别系统设计与硬件实现 魏 东, 董博晨, 刘亦青 (1828)

基于差分传输管预充电逻辑的功耗恒定性电路改进设计 姚茂群, 李聪辉 (1834)

密码学与网络信息安全

虚拟网络功能资源容量自适应调整方法 袁 泉, 游 伟, 季新生, 汤红波 (1841)

零日病毒传播模型及稳定性分析 孟庆微, 仇铭阳, 王 刚, 马润年 (1849)

基于区块链的细粒度云数据安全存储与删除方案 周由胜, 陈律君 (1856)

区块链上基于云辅助的密文策略属性基数据共享加密方案 牛淑芬, 杨平平, 谢亚亚, 杜小妮 (1864)

通信与物联网

单星多波束天线下基于压缩感知的多目标干扰定位 张 轶, 翟盛华, 陶海红 (1872)

一种新型5G非授权频段非连续接收机制 裴旭明, 钱 骥, 王海峰, 康 凯 (1879)

多载波超密集网络的抗干扰分布式节能功率分配 何 云, 申 敏, 张 梦 (1886)

基于高斯拟合与切比雪夫不等式的标签数量二次估计算法 严军荣, 叶仁杰, 钟 华, 姜显扬 (1893)

基于CNN扰动的极化码译码算法 赵生妹, 徐 鹏, 张 南, 孔令军 (1900)

OFDM系统中基于压缩感知的非线性失真恢复研究 赵 辉, 莫谨荣, 王 薇, 孙振江, 张天骐 (1907)

高级在轨系统中的虚拟信道混合调度算法研究 别玉霞, 张秀奇, 王宇鹏, 胡 智 (1913)

一种低复杂度的超高阶码索引调制方法 刘 芳, 冯永新 (1922)

基于施密特正交化的降噪多载波相关延迟键控混沌通信系统 张 刚, 和华杰, 张 鹏 (1930)

雷达与声呐信号处理

基于雷达发射波形和非匹配滤波联合设计的间歇采样转发干扰抑制方法
..... 周 凯, 李德鑫, 粟 毅, 何 峰, 刘 涛 (1939)

雷达与电子支援措施异步抗差航迹关联算法 衣 晓, 杜金鹏 (1947)

相参处理间隔较短条件下基于稀疏重构及形态成分分析的航管雷达风电场杂波抑制
..... 何炜琨, 毕峰华, 王晓亮, 张 莹 (1954)

贪婪的量测划分机制下的多传感器多机动目标跟踪算法 杨 标, 朱圣棋, 余 昆, 房云飞 (1962)

基于Ransac算法的捷变频联合正交频分复用雷达高速多目标参数估计
..... 全英汇, 高 霞, 沙明辉, 方 文, 李亚超, 邢孟道 (1970)

运动平台混响背景下基于低秩稀疏分解的目标回波增强 王 燕, 贺玉梁, 邱龙皓, 邹 男 (1978)

- 基于深度生成对抗网络的海杂波数据增强方法 丁 斌, 夏 雪, 梁雪峰 (1985)
基于二维空变运动补偿的机动平台大斜视SAR稀疏自聚焦方法 李 根, 马彦恒, 熊旭颖 (1992)
干涉仪相位差测量标量积累与矢量积累的特性分析与对比 石 荣 (2000)
15~23 GHz微波链路雨衰的敏感参量分析 刘西川, 邹明忠, 张旭光 (2007)
- 图像与智能信息处理**
- 一种基于RefineDet网络和霍夫变换的高速铁路接触网吊弦状态多尺度检测方法
..... 齐冬莲, 钱佳莹, 闫云凤, 曾晓红 (2014)
基于深层特征学习的高效率视频编码中帧内快速预测算法 贾克斌, 崔腾鹤, 刘鹏宇, 刘 畅 (2023)
基于ReliefF-Pearson的嗅觉脑电通道选择 张小内, 翟文鹏, 侯惠让, 孟庆浩 (2032)
基于Blob-Harris特征区域和NSCT-Zernike的鲁棒水印算法 张天骐, 周 琳, 梁先明, 徐 伟 (2038)
最大期望模拟退火的贝叶斯变分推理算法 刘浩然, 张力悦, 苏昭玉, 张 赞, 张 磊 (2046)
信任和效用关系约束的联盟结构生成 童向荣, 任子仪 (2055)
复杂环境下多尺度行人实时检测方法 周薇娜, 孙丽华, 徐志京 (2063)
基于三维图卷积与注意力增强的行为识别模型 曹 毅, 刘 晨, 盛永健, 黄子龙, 邓小龙 (2071)
基于上下文模糊C均值聚类的图像分割算法 徐金东, 赵甜雨, 冯国政, 欧世峰 (2079)
多尺度语义信息融合的目标检测 罗会兰, 陈鸿坤 (2087)
基于注意力机制的单发多框检测器算法 赵 辉, 李志伟, 张天琪 (2096)
基于高斯平滑压缩感知分数阶全变分算法的图像重构 覃亚丽, 梅济才, 任宏亮, 胡映天, 常丽萍 (2105)
基于多尺度加权特征融合网络的地铁行人目标检测算法
..... 董小伟, 韩 悅, 张 正, 曲洪斌, 高国飞, 陈明钿, 李 博 (2113)

JOURNAL OF ELECTRONICS & INFORMATION TECHNOLOGY

Vol.43 No.7 July 2021

CONTENTS

Overview

- Review of SoC Estimation Methods for Electric Vehicle Li-ion Batteries *ZHANG Zhaowei, GUO Tianzi, GAO Mingyu, HE Zhiwei, DONG Zhekang* (1803)

Circuit and System Design

- An Impulse Noise Detection Algorithm Based on Kurtosis and FPGA Implementation *ZHOU Xiaobo, WANG Hong, ZHOU Guofei* (1816)
- High-performance Hardware Architecture Design and Implementation of Ed25519 Algorithm *YU Bin, HUANG Hai, LIU Zhiwei, ZHAO Shilei, NA Ning* (1821)
- Design and hardware implementation of image recognition system based on improved neural network *WEI Dong, DONG Bochen, LIU Yiqing* (1828)
- Improved Design of Constant Power Consumption Circuit Based on Differential Pass-transistor Precharge Logic *YAO Maoqun, LI Conghui* (1834)

Cryptography and Network Information Security

- Adaptive Scaling of Virtualized Network Function Resource Capacity ... *YUAN Quan, YOU Wei, JI Xinsheng, TANG Hongbo* (1841)
- Zero-day Virus Transmission Model and Stability Analysis ... *MENG Qingwei, QIU Mingyang, WANG Gang, MA Runnian* (1849)
- Secure Storage and Deletion Based on Blockchain for Cloud Data with Fine-grained Access Control *ZHOU Yousheng, CHEN Lüjun* (1856)
- Cloud-Assisted Ciphertext Policy Attribute Based Encryption Data Sharing Encryption Scheme Based on BlockChain *NIU Shufen, YANG Pingping, XIE Yaya, DU Xiaoni* (1864)

Communication and Internet of Things

- Multi-target Interference Localization Using Single Satellite Multi-beam Antenna Based on Compressive Sensing *ZHANG Yi, ZHAI Shenghua, TAO Haihong* (1872)
- A Novel Discontinuous Reception Mechanism for 5G in Unlicensed Band *PEI Xuming, QIAN Hua, WANG Haifeng, KANG Kai* (1879)
- Anti-Interference Distributed Energy-Efficient Power Allocation for Multi-Carrier Ultra-Dense Networks *HE Yun, SHEN Min, ZHANG Meng* (1886)
- Twice Labels Number Estimation Algorithm Based on Gaussian Fitting and Chebyshev Inequality *YAN Junrong, YE Renjie, ZHONG Hua, JIANG Xianyang* (1893)
- A Decoding Algorithm of Polar Codes Based on Perturbation with CNN *ZHAO Shengmei, XU Peng, ZHANG Nan, KONG Lingjun* (1900)
- Research on Nonlinear Distortion Recovery Based on Compressed Sensing in OFDM System *ZHAO Hui, MO Jinrong, WANG Wei, SUN Zhenjiang, ZHANG Tianqi* (1907)
- Research on Virtual Channel Hybrid Scheduling Algorithm in Advanced Orbit System *BIE Yuxia, ZHANG Xiuqi, WANG Yupeng, HU Zhi* (1913)
- An Ultrahigh Order Code Index Modulation Method With Low Complexity *LIU Fang, FENG Yongxin* (1922)
- NR-MC-CDSK Chaotic Communication SystemBased on Schmidt Orthogonalization *ZHANG Gang, HE Huajie, ZHANG Peng* (1930)

Radar and Sonar Signal Processing

- Joint Transmitted Waveform and Mismatched Filter Design Against Interrupted-sampling Repeater Jamming *ZHOU Kai, LI Dexin, SU Yi, HE Feng, LIU Tao* (1939)

(To be continued on inside back cover)

(Continued)

- Asynchronous Anti-bias Track Association Algorithm of Radar and Electronic Support Measurements ... *YI Xiao, DU Jinpeng* (1947)
Clutter Suppression of Wind Farm Based on Sparse Reconstruction and Morphological Component Analysis for ATC Radar under Short Coherent Processing Interval Condition
..... *HE Weikun, BI Fenghua, WANG Xiaoliang, ZHANG Ying* (1954)
Multi-sensor Multiple Maneuvering Targets Tracking Algorithm under Greedy Measurement Partitioning Mechanism
..... *YANG Biao, ZHU Shengqi, YU Kun, FANG Yunfei* (1962)
High Speed Multi-target Parameter Estimation for FA-OFDM Radar Based on Ransac Algorithm
..... *QUAN Yinghui, GAO Xia, SHA Minghui, FANG Wen, LI Yachao, XING Mengdao* (1970)
Target Echo Enhancement under Moving Platform Reverberation Using Low-Rank and Sparse Decomposition
..... *WANG Yan, HE Yuliang, QIU Longhao, ZOU Nan* (1978)
Sea Clutter Data Augmentation Method Based on Deep Generative Adversarial Network
..... *DING Bin, XIA Xue, LIANG Xuefeng* (1985)
Sparse Autofocus Method for Maneuvering Platform High-squint SAR Based on Two-dimensional Spatial-variant Motion Compensation *LI Gen, MA Yanheng, XIONG Xuying* (1992)
Characteristics Analysis and Contrast between Scalar Accumulation and Vector Accumulation in Interferometer Phase Difference Measurement *SHI Rong* (2000)
Analysis of Sensitive Parameters of 15~23 GHz Microwave Link Induced by Rain Attenuation
..... *LIU Xichuan, ZOU Mingzhong, ZHANG Xuguang* (2007)
- Image and Intelligent Information Processing**
- A Multi-scale Detection Method for Dropper States in High-speed Railway Contact Network Based on RefineDet Network and Hough Transform *QI Donglian, QIAN Jiaying, YAN Yunfeng, ZENG Xiaohong* (2014)
Fast Prediction Algorithm in High Efficiency Video Coding Intra-mode Based on Deep Feature Learning
..... *JIA Kebin, CUI Tenghe, LIU Pengyu, LIU Chang* (2023)
ReliefF-Pearson Based Olfactory ElectroEncephaloGram Channel Selection
..... *ZHANG Xiaonei, ZHAI Wenpeng, HOU Huirang, MENG Qinghao* (2032)
A Robust Watermarking Algorithm Based on Blob-Harris and NSCT-Zernike
..... *ZHANG Tianqi, ZHOU Lin, LIANG Xianming, XU Wei* (2038)
Bayesian Variational Inference Algorithm Based on Expectation-Maximization and Simulated Annealing
..... *LIU Haoran, ZHANG Liyue, SU Zhaoyu, ZHANG Yun, ZHANG Lei* (2046)
Coalition Structure Generation Constrained by Trust and Utility Relationship *TONG Xiangrong, REN Ziyi* (2055)
A Real-time Detection Method for Multi-scale Pedestrians in Complex Environment ... *ZHOU Weina, SUN Lihua, XU Zhijing* (2063)
Action Recognition Model Based on 3D Graph Convolution and Attention Enhanced
..... *CAO Yi, LIU Chen, SHENG Yongjian, HUANG Zilong, DENG Xiaolong* (2071)
Image Segmentation Algorithm Based on Context Fuzzy C-Means Clustering
..... *XU Jindong, ZHAO Tianyu, FENG Guozheng, OU Shifeng* (2079)
Multi-scale Semantic Information Fusion for Object Detection *LUO Huilan, CHEN Hongkun* (2087)
Attention Based Single Shot Multibox Detector *ZHAO Hui, LI Zhiwei, ZHANG Tianqi* (2096)
Image Reconstruction Based on Gaussian Smooth Compressed Sensing Fractional Order Total Variation Algorithm
..... *QIN Yali, MEI Jicai, REN Hongliang, HU Yingtian, CHANG Liping* (2105)
Metro Pedestrian Detection Algorithm Based on Multi-scale Weighted Feature Fusion Network
..... *DONG Xiaowei, HAN Yue, ZHANG Zheng, QU Hongbin, GAO Guofei, CHEN Mingdian, LI Bo* (2113)