Quarterly, since 1995

www. hitech863. com

Contents

113 Buffer allocation method of serial production lines based on improved ant colony optimization algorithm *Zhou Binghai* (周炳海), *Yu Jiadi*

120 Bionic jumping dynamics of the musculoskeletal leg mechanism for quadruped robots

Lei Jingtao(雷静桃), Wu Jiandong

128 Study on co-simulation model of forging manipulator based on virtual prototyping

Zhai Fugang (翟富刚), Zhu Hanyin, Wu Qilei, Kong Xiangdong

135 Evaluation of cable tension sensors of FAST reflector from the perspective of EMI

Zhu Ming(朱 明), Wang Qiming, Dennis Egan, Wu Mingchang, Sun Xiao

142 Distributed cubature Kalman filter based on observation bootstrap sampling

Hu Zhentao (胡振涛), Hu Yumei, Zheng Shanshan, Li Xian, Guo Zhen

148 Learning trendiness from twitter to web: a comparative analysis of microblog and web trending topics

Wang Dong (王 栋), Xie Gaogang

160 Quotient space model based on algebraic structure

Chen Linshu (陈林书), Wang Jiayang, Li Li, Yang Zhenghua

170 An optimizing algorithm of static task scheduling problem based on hybrid genetic algorithm

Liu Yu (柳 玉), Song Jian, Wen Jiayan

177 Removal of jamming using independent component analysis in non-cooperative passive detection system

Ying Tao (应 涛), Huang Gaoming, Shan Hongchang, Zuo Wei, Gao Jun

183 A cooperative user selection scheme based on energy efficiency and interference factor in cooperative communication systems

Li Meng (李 萌), Sun Enchang, Yu Fei Richard, Zhang Yanhua

192 Abnormal activity detection for surveillance video synopsis

Zhu Xiaobin (祝晓斌), Wang Qian, Li Haisheng, Guo Xiaoxia, Xi Yan, Shen Yang

199 Identity-based proxy multi-signature applicable to secure E-transaction delegations

Liu Jianhua (刘建华), Wu Qianhong, Liu Jianwei, Shang Tao

207 Improved Roberts operator for detecting surface defects of heavy rails with superior precision and efficiency

Shi Tian (石 甜), Kong Jianyi, Wang Xingdong, Liu Zhao, Xiong Jianliang

215 Intelligent outdoor video advertisement recommendation system based on analysis of audiences' characteristics

Liu Peng (刘 鹏), Li Songbin, Deng Haojiang, Wang Jinlin

224 SCMR:a semantic-based coherence micro-cluster recognition algorithm for hybrid web data stream Wang Min(王 珉), Wang Yongbin, Li Ying