Quarterly, since 1995

www. hitech863. com

## Contents

117 A new digital transmitter based on delta sigma modulator with bus-splitting

Hua Zaijun(花再军), Fan Xiangning, Liao Yilong

169 The torsion model of soft tissue in virtual surgery

Zhang Xiaorui(张小瑞), Wang Pengpai, Wei Sun, Liu jia,

Zhu Lifeng

180 Friction coupling vibration characteristics analysis

of aviation hydraulic pipelines considering multi factors

Quan Lingxiao(权凌雪), Guo Meng, Shi Junqiang, Jiao Zongxia,

125 Semantic categorization of indoor places usingCNN for mobile robot exploration

Li Guangsheng (李广胜), Chou Wusheng

134 Graph publishing method based on differential privacy protection

Wang Junli (王俊丽), Yang Li, Wu Yuxi, Guan Min

142 Backstepping sliding mode control with self recurrent wavelet neural network observer for a novel coaxial twelve-rotor UAV

Qiao Guanyu(乔冠宇), Peng Cheng

189 Research on community detection algorithm based on site topic similarity and topology

Hu Yi(胡 艺), Li Zhengmin, Chi Lejun, Lin Jinxiu

Guo Changhong

196 An application of insurance mechanism in risk management for energy internet

Yang Yunxue(杨云雪), Zhang Qin, Zhang Libo

149 A heuristic clustering algorithm based on high density-connected partitions

Yuan Lufeng (苑鲁峰), Yao Erlin, Tan Guangming

156 Stability analysis via the concept of Lyapunov exponents — a case study

Chen Cheng (陈 城), Xu Jinfa, Liu Yunping, Li Xianying,
Zhang Yonghong

163 A growing social networks model of physical objects in IoT

Li Ali(李阿丽), Zhai Yun

203 Analysis on performance and test of a new type of ultra-high pressure pipe joint

Zhai Fugang(翟富刚), Kong Xiangdong, Sun Yugang, Wang Zitong, Hao Xiaobei

208 A document-level model for tweet event detection Qin Yanxia (秦彦霞), Zhang Yue, Zhang Min, Zheng Dequan

219 Effect of guide vane outlet angle on pump performance and impeller radial force in an axial-flow heart pump

Liu Fufei(刘复飞), Sang Xiaohu