Quarterly, since 1995

www. hitech863. com

Contents

- 337 The adaptive distributed learning based on homomorphic encryption and blockchain

 YANG Ruizhe(杨睿哲), ZHAO Xuehui, ZHANG Yanhua,

 SI Pengbo, TENG Yinglei
- 345 Design and implementation of near-memory computing array architecture based on shared buffer SHAN Rui(山 蕊), GAO Xu, FENG Yani, HUI Chao, CUI Xinyue, CHAI Miaomiao
- 354 Adaptive cubature Kalman filter based on variational Bayesian inference under measurement uncertainty

HU Zhentao(胡振涛), JIA Haoqian, GONG Delong

- **363** HOPE: a heterogeneity-oriented parallel execution engine for inference on mobiles

 XIA Chunwei(夏春伟), ZHAO Jiacheng, CUI Huimin, FENG Xiaobing
- 373 Joint utility optimization algorithm for secure hybrid spectrum sharing

WANG Yi(王 翊), HUANG Rong, XU Yaohua, JIANG Fang, BAI Na, TANG Tao, HU Yanjun

384 An efficient cross-layer buffer management optimization scheme for 5G protocol stack

YANG Xining (杨喜宁), ZHOU Yiqing, CHEN Yang

- 392 A simplified hardware-friendly contour prediction algorithm in 3D-HEVC and parallelization design

 JIANG Lin(蒋 林), DUAN Xueyao, XIE Xiaoyan
- 401 Design and implementation of gasifier flame detection system based on SCNN

 WU Jin(吴 进), DAI Wei, WANG Yu, ZHAO Bo
- 411 Workspace optimization of parallel robot by using multi-objective genetic algorithm

 WANG Jinhong (王进洪), LEI Jingtao
- 418 Effect of integral squeeze film damper on vibration and noise of spur gear with center-distance error DONG Huaiyu(董怀玉), HE Lidong, JIA Xingyun
- 425 Research on buffer structure and flow field simulation of swash plate plunger type hydraulic transformer

WANG Xiaojing (王晓晶), HUO Shuhang, LI Wenjie

- **434** Design and experimental study of active balancing actuator driven by ultrasonic motor WANG Yangyang (王洋洋), PAN Xin, GAO Jinji, WU Haiqi
- 440 Trajectory tracking control of characteristic model for nonplanar hex-rotor UAV

 PENG Cheng(彭 程), QIAO Guanyu, CAI Lihua