

# 南京邮电大学学报(自然科学版)

2010年8月 第30卷 第4期(总第129期)

## 目次

### 物联网专题

- 物联网概念模型与体系结构 ..... 沈苏彬,毛燕琴,范曲立,宗平,黄维(1)
- 物联网及其技术发展 ..... 杨震(9)
- 智慧校园设计方法的研究 ..... 宗平,朱洪波,黄刚,许建真(15)
- 物联网安全特征与关键技术 ..... 杨庚,许建,陈伟,祁正华,王海勇(20)
- 物联网管理技术的研究和开发 ..... 张顺颐,宁向延(30)
- 无线传感器网络中间件技术 ..... 王汝传,孙力娟,沙超,黄海平,肖甫(36)
- 复杂动态网络同步控制及其在信息物理系统中的应用 ..... 蒋国平,樊春霞,宋玉蓉,邵斐(41)
- 网络物理系统安全体系架构及关键技术的研究 ..... 吴蒙,丁超,杨立君(52)

### 学术论文

- 基于压缩感知的语音压缩与重构 ..... 叶蕾,杨震(57)
- Costas序列在多目标散射雷达系统中的应用研究 ..... 姚建国,黄清(61)
- 一个高效的匿名口令认证密钥协商协议 ..... 王少辉,王高丽(71)
- 一种基于混合智能体系统的 Flocking 算法 ..... 尚锋,蒋国平,樊春霞(75)
- STI 应力对 90 nm SONOS 存储器的影响分析 ..... 徐跃,闫锋(80)
- 一种圆锥扫描跟踪技术 ..... 赵来定,李锐,谢继东(84)
- LTE 中 Turbo 码内部交织器的研究 ..... 王视环(90)

本期责任编辑:宋福明,潘雪松 本期英文审订:杨庚,廉正琨

期刊基本参数:CN 32-1772/TN \* 1960 \* b \* A4 \* 96 \* zh \* P \* ¥8.00 \* 1000 \* 15 \* 2010-08

# JOURNAL OF NANJING UNIVERSITY OF POSTS AND TELECOMMUNICATIONS(NATURAL SCIENCE)

Aug. 2010 Vol. 30 No. 4 (Sum. No. 129)

---

## CONTENTS

### Special Issue for IOT

<b>The Concept Model and Architecture of the Internet of Things</b> .....	SHEN Su-bin, MAO Yan-qin, FAN Qu-li, ZONG Ping, HUANG Wei ( 1 )
<b>IOT and Its Technology Development</b> .....	YANG Zhen ( 9 )
<b>Research and Design of Smart Campus Based on Internet of Things</b> .....	ZONG Ping, ZHU Hong-bo, HUANG Gang, XU Jian-zhen (15)
<b>Security Characteristic and Technology in the Internet of Things</b> .....	YANG Geng, XU Jian, CHEN Wei, Qi Zheng-hua, WANG Hai-yong (20)
<b>The Research and Development of the Internet of Things Network Management Technology</b> .....	ZHANG Shun-yi, NING Xiang-yan (30)
<b>Middleware Technology for Wireless Sensor Networks</b> .....	WANG Ru-chuan, SUN Li-juan, SHA Chao, HUANG Hai-ping, XIAO Fu (36)
<b>Synchronization and Control of Complex Dynamical Networks with Applications in Cyber-Physical Systems</b> .....	JIANG Guo-ping, FAN Chun-xia, SONG Yu-rong, SHAO Fei (41)
<b>Research on Security Architecture and Key Technologies in Cyber-Physical Systems</b> .....	WU Meng, DING Chao, YANG Li-jun (52)

### Papers

<b>Compression and Reconstruction of Speech Signal Based on Compressed Sensing</b> .....	YE Lei, YANG Zhen (57)
<b>Study on the Application of Costas Arrays to Multiple Targets Scattering Radar Systems</b> .....	YAO Jian-guo, HUANG Qing (61)
<b>An Efficient Anonymous Password Authenticated Key Exchange Protocol</b> .....	WANG Shao-hui, WANG Gao-li (71)
<b>A Kind of Flocking Algorithm Based on Multi-agent Systems</b> .....	SHANG Feng, JIANG Guo-ping, FAN Chun-xia (75)
<b>Analysis of Influence of STI-induced Stress on 90 nm SONOS Memory</b> .....	XU Yue, YAN Feng (80)
<b>A Tracking Technique Based on Conical Scanning</b> .....	ZHAO Lai-ding, LI Rui, XIE Ji-dong (84)
<b>Study of the Internal Interleaver of LTE Turbo Codes</b> .....	WANG Shi-huan (90)

Editor: SONG Fu-ming, PAN Xue-song      English Reviser: YANG Geng, MI Zheng-kun