

ISSN 1006-1010
CN 44-1301/TN



移动通信

MOBILE COMMUNICATIONS

第**2**期
2018年

Vol.42 总第456期

□主管：中国电子科技集团公司

□主办：广州通信研究所（中国电子科技集团公司第七研究所）

面向 5G 的 IMT 频谱使用效率评估
国内 5G 频谱指配分析及建议
LTE 与 5G NR 终端互干扰研究
终端在 5G 频段下的自干扰问题探讨
中国联通 900MHz 频段的重耕策略

万方数据

移动通信

（月刊）

第四十二卷

二〇一八年 第二期

总第四五六期

“频谱高效利用”专题

- | | |
|---------------------------------------|----------------|
| 1 国内5G频谱指配分析及建议 | 肖清华 |
| 6 面向5G的IMT频谱使用效率评估 | 张炎炎 李文祺 王宝聪 李欣 |
| 11 LTE与5G NR终端互干扰研究 | 邢金强 |
| 19 终端在5G频段下的自干扰问题探讨 | 何伟俊 戴国华 张婷 桂烜 |
| 24 中国联通900MHz频段的重耕策略 | 董帝煊 |
| 30 中国联通LTE1800M与DCS1800M带内频谱共享方案研究与实践 | 吴伟 |
| 35 基于神经网络的多维频谱推理方法探讨 | 周佳宇 吴皓 |

研究与探讨

- | | |
|-----------------------|---------|
| 40 FDSS调制技术研究 | 辛雨 黄琛 |
| 45 基于信令的LTE网络驻留时长算法探讨 | 陈伟栋 陈郑斌 |

网规网优

- | | |
|-----------------------------|---------------|
| 53 EVS高清语音编解码器对VoLTE覆盖性能影响 | 许珺 李佳俊 李轶群 栾帅 |
| 59 SDN在ChinaNet骨干网流量优化的应用实践 | 何晓明 邢亮 卢泉 邹洁 |

设计与实现

- | | |
|---------------------------|-------------|
| 65 基于改进资源分配的链接预测算法 | 杜翠凤 陈少权 蒋仕宝 |
| 71 DDS驱动PLL的X波段宽带高纯度捷变源设计 | 庞春辉 |
| 77 信号源数检测算法研究 | 赵宝利 |
| 81 一种电缆在线检测技术 | 符建名 |
| 86 TD-LTE移动基站杂散发射测试方案 | 何占儿 王慧 陈伟 |
| 92 综合交通枢纽无线信息系统解决方案 | 李雪 王雪 |

新闻

- 10 5G技术研发试验第三阶段规范正式发布
- 52 2017年我国电信业务总量同比增长76.4% 业务收入同比增长6.4%

CONTENTS

Spectrum Efficient Utilization

- 1 Analysis and Advices on 5G Frequency Allocation in China XIAO Qinghua
6 Research on Spectrum Efficiency Evaluation for 5G based IMT System
ZHANG Yanyan LI Wenqi WANG Baocong LI Xin
11 Research of Mutual Interference between LTE and 5G NR Terminal XING Jinqiang
19 Discussion on Self-Interference of Terminal at 5G Frequency Band
HE Weijun DAI Guohua ZHANG Ting GUI Xuan
24 On Re-Farming Strategy of 900MHz Frequency Band for China Unicom DONG Dilang
30 Research and Practice on LTE1800M and DCS1800M Spectrum Sharing Scheme for China Unicom WU Wei
35 Discussion on Neural Network based Multi-Dimensional Spectrum Reasoning Method ZHOU Jiayu WU Hao

Research and Discussion

- 40 Research on FDSS Modulation Technique XIN Yu HUANG Chen
45 Research on Signaling based Resident Time Algorithm for LTE Network CHEN Weidong CHEN Zhengbin

Network Planning and Optimization

- 53 Analysis on EVS HD Voice Codec Influence on VoLTE Coverage Performance
XU Jun LI Jiajun LI Yiqun LUAN Shuai
59 Application of SDN to Traffic Optimization in ChinaNet Backbone Networks
HE Xiaoming XING Liang LU Quan ZOU Jie

Design and Implementation

- 65 Link Prediction Algorithm based on Improved Resource Allocation DU Cuifeng CHEN Shaoquan JIANG Shibao
71 Design of X-band Broadband High-Purity Agile Source based on DDS-Driven PLL PANG Chunhui
77 Research on Detection Algorithm of Number of Signal Sources ZHAO Baoli
81 An Online Cable Detection Technique FU Jianming
86 A Solution to Spurious Emission Testing of TD-LTE BTS Transmitter HE Zhaner WANG Hui CHEN Wei
92 Solution to Wireless Information System for Integrated Transportation Hub LI Xue WANG Xue

News

- 10 The Formal Release of the Third Phase of 5G Technology Research and Development Test
52 In 2017: the Total Amount of Telecom Services in China Increased by 76.4% and Business Income Increased by 6.4% over the Same Period