参考文献

- [1] 李宗璋, 石志同, 王玉玲, 等. 高铁4G专网优化策略及方案[J]. 电信科学, 2016(7).
- [2] 叶婉玲, 黄海晖, 陆南昌, 等. 基于非标频点的高铁公专网 资源优配方案的研究[J]. 电信工程技术与标准化, 2019(9).
- [3] 娜拉. 中国移动高铁专网用户下载速率提升对策研究[J]. 卫 星电视与宽带多媒体, 2019(23).

Public and private network collaboration technology break through the bottleneck of network capacity of high-speed rail protection belt

HUANG Man-man, FENG Yong-sheng

(China Mobile Group Jiangsu Co., Ltd. Xuzhou Branch, Xuzhou 221000, China)

Abstract

In order to ensure user rate perception, the high-speed rail private network and the public network use different frequency points for independent networking. At the same time, the protection band is configured without using the high-speed rail dedicated network frequency to avoid interference and interaction with the public network. With the explosive growth of network capacity, frequency resources in the protection band are limited and the network load situation is severe. So, the public and private network collaboration technology is adopted to solve this problem. According to the instantaneous large number of handovers, the high-speed rail entry and exit are judged. Through X2 communication, the private network and the public network decide whether to schedule the corresponding resource block resources, so as to achieve dynamic bandwidth adjustment and spectrum sharing.

Keywords

high-speed rail protection belt; load; public and private network collaboration; spectrum sharing



"5G+工业互联网"高峰论坛在绵阳成功举办

近日,以"赋能产业 联创未来"为主题的"5G+工业互联网"高峰论坛在绵阳成功举办。论坛开幕式由中国通信学会 秘书长张延川主持。四川省人民政府副省长李刚、工业和信息化部信息通信管理局一级巡视员刘杰出席论坛开幕式并致辞。

李刚指出,在科技革命和产业变革加速演进、新冠肺炎疫情倒逼产业转型升级、数字经济蓬勃发展的新形势下,四川将 立足产业发展实际和需要,科学布局建设新型数字基础设施,加快抢占5G网络应用、工业互联网、区块链、大数据、人工智 能等数字经济发展高地,推动制造业加快数字化赋能,形成实体经济和数字经济相互促进、同步提升的良好发展格局。

刘杰强调,5G+工业互联网应用范围不断扩大,应用程度不断深化,应用水平不断提高,正日益成为推动实体经济数字 化转型的关键驱动力量。下一步工信部将与各界一道坚决贯彻落实党中央国务院提出的新基建工作目标和任务思路与举措。 一是促进产业生态培育,二是加快新型基础设施建设,三是推动多方合作共赢,四是融合探索。积极推动"5G+工业互联 网"512工程的加快实施,支撑制造强国和网络强国建设,助力经济高质量发展。

中国工程院院士郭桂蓉、邬贺铨以及邬江兴分别围绕5G+工业互联网发展建议、"上云融数聚智 赋能5G2B"以及 "5G+工业互联网"内生安全等议题发表主旨演讲。 (来源:中国通信学会官网)