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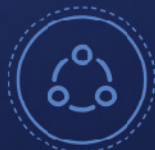
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《广播与电视技术》是由国家新闻出版广电总局主管，国家新闻出版广电总局广播电视规划院主办，信息研究所编辑出版的国家级技术期刊；是发布广播电视科技政策，反映事业建设成就，介绍高新技术，交流工作经验，传播各种信息的重要媒体。本刊主要面向各级广播电视行业主管部门、各级广播电台、电视台、网络公司、发射台、微波站、卫星站、节目制作单位及电教系统，同时对企业、工矿、学校、部队等具有公共广播电视设施的管理人员、技术人员也有参考价值。

为繁荣学术交流，本刊已加入《中国学术期刊网络出版总库》、“万方数据”和“维普中文科技期刊数据库”，有权选取部分论文在本刊关联平台（如广电猎酷网 www.lieku.tv、“广电猎酷”微信公众号等）发布，作者著作权使用费已随论文稿酬一次性给付。本刊充分尊重作者的原创成果并合理保护作者享有的权利，如作者不同意本刊之外其他形式的发布，请在来稿中声明，本刊将作适当处理。本刊及主办单位对本刊已发布作品的内容和观点不持有任何立场、不做出任何承诺或保证、不承担任何责任。

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[16] 广播电视领域 VR 应用的关键技术研究

VR 视频技术所带来“主观视角和沉浸式体验”的观影感受将颠覆传统视频生成和播出的流程和方式。本文以 VR 购物为应用场景，围绕 VR 内容生产全流程中 VR 的视频采集、画面拼接、转码分发以及终端体验四个环节，探寻和研究相关核心技术，从而为广播电视领域 VR 技术应用开辟一条探索之路。

[32] 电视台内基带信号 IP 化的探讨与实践

IP 技术凭借其传输速度、标准以及成本方面的优势，逐渐呈现出取代传统 SDI 体系的趋势。本文通过对 SDI 信号 IP 化的标准和技术进行介绍和分析，探讨了电视台 IP 化中的关键技术，并结合实际提出电视台 IP 化改造设计方案，希望能为业内相关技术人员提供一些参考。

[66] 基于有线网络的多屏互动融合新业态方案设计

多屏互动融合新业态是广电行业在互联网浪潮冲击下，实现行业转型、构建行业生态、引领行业未来的必由之路。本文深入探讨了多屏互动融合新业态的技术规划和架构设计，详细介绍了智慧物联大脑、融合云架构和互动融合新业态等内容，探索设计出具有资源整合、媒体融合、业态聚合等多种融合互动能力的新业务形态模式，可供广电同行参考借鉴。

[100] 地面数字电视同频干扰问题分析及抑制方法

同频干扰是困扰地面数字电视覆盖的一个重要问题。本文分析同频干扰产生的原因，提出抑制同频干扰的方法，并在安徽省地面数字电视同频覆盖网中进行了工程实践，验证了该方法的有效性。本文提出的地面数字电视覆盖网同频干扰的抑制方法对提高覆盖效果具有很好的效果，值得其他省份借鉴。

[115] IP 化嵌入式电视信号监测系统的设计与实现

建立完善的监测系统体系具有深远的意义。广东省广播电视网络股份有限公司采用嵌入式监测设备，对不同信号监测板卡进行混插，提高了系统的集成度，减少了人力成本和设备成本，实现了“有人留守，无人值守”的建设目标，在提高了工作效率的同时，确保广播电视节目的安全播出。本文介绍这一系统的设计与实现，供业界参考。

[128] 广电“光进铜退”还是“光近同蜕”

当前在广电行业“光纤到户”、“光进铜退”的发展趋势下，有线网络改造时如何对待 HFC 网的同轴资源成为一个备受关注的话题。本文结合当地有线网络实际，对广电同轴发展提出了一些个人思考，可在一定程度上拓展广电同仁的思维。



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[16] Research on the Key Technologies of VR in Radio and Television

Since the immersing experience and subjective perspective are brought by VR video technology, the traditional methods of video production and broadcasting are being overturned. Taking VR shopping as an example, this paper explores the key technologies of VR content production, especially in aspects of video gathering, image stitching, transcoding and distribution, terminal experiences. It opens new doors for the application of VR technologies in radio and broadcasting.

[32] Research on Baseband Signal Over IP in TV Station

IP technology has advantages in transmission speed, standards and cost, and is replacing the traditional SDI systems. This paper introduces and analyzes the standards of SDI over IP, and explores the key technologies of SDI over IP in TV stations. It proposes an IP transformation scheme with practice in TV stations. Hope to be referenced for relative peers in the industry.

[66] Business Solution for Multi-screen Interaction and Integrated Service Based on Cable Network

The business solution of multi-screen interaction and integrated service is an inevitable choice for industry transformation, industry ecological construction and future leading. This paper researches on the technical plan and architecture design of multi-screen interaction and integrated service, introduces the brain of smart IoT, convergent cloud and interactive business in detail. It proposes a new convergent interactive business mode with resources integration, media convergence and service integration. It can be used for reference by radio and TV companies.

[100] Analysis on Co-channel Interference of Digital Terrestrial TV Broadcasting and Suppression Method

Frequency Interference is a crucial problem for digital terrestrial television broadcasting. This paper analyzes the causes of frequency interference and proposes a method of frequency interference suppression which has been applied and proved in DTTB network of Anhui province. The proposed method has excellent effect of improving coverage and could be referenced by other provinces.

[115] Design and Implementation of IP-Based Embedded TV Signal Monitoring System

It is profoundly significant to set up an excellent monitoring system. Guangdong Radio and Television Network Co. Ltd. applies the embedded monitoring equipment to integrate different signal monitoring boards, so that the system integration is improved, the labor cost and equipment cost are reduced, and the goal of "people stay behind, but unattended operation" is achieved. It not only increases the working efficiency but also makes sure the safe broadcasting of radio and TV programs. This paper introduces the system design and implementation, which could be referenced for industry.

[128] "Copper Cables Replaced by Optical Fibers" or "Copper Cables Developing With Optical Fibers Together"

In the current development of FTTH, when "copper cables are being replaced by optical fibers", how to handle HFC network has become a focus in the transformation of cable network. Considering the situation of cable network, this paper puts forward some personal thinking about the future of copper cables. Hope to expand the thinking of radio and television colleagues to a certain extent.