

《压缩视频通信》

图书基本信息

书名：《压缩视频通信》

13位ISBN编号：9787030132420

10位ISBN编号：7030132424

出版时间：2004-5

出版社：科学

作者：萨迪卡

页数：275

版权说明：本站所提供下载的PDF图书仅提供预览和简介以及在线试读，请支持正版图书。

更多资源请访问：www.tushu000.com

《压缩视频通信》

内容概要

《压缩视频通信(英文影印版)》为国外高校电子信息类优秀教材(英文影印版)之一。《压缩视频通信(英文影印版)》深入浅出地介绍了自1989年以来几乎全部ISO/ITU-T颁布的数字视频压缩算法标准与多媒体应用建议,加入了IP与ATM的一般技术内容,并体现了最新的研究成果。内容包括数字视频压缩算法、内部网络视频通信的代码转换等。

书籍目录

Preface Acknowledgements About the Author 1 Introduction 1.1 Background 1.2 Source Material 1.3 Video Quality Assessment and Performance Evaluation 1.4 Outline of the Book 1.5 References 2 Overview of Digital Video Compression Algorithms 2.1 Introduction 2.2 Why Video compression? 2.3 User Requirements from Video 2.4 Contemporary Video Coding Schemes 2.5 Object-based Video Coding 2.6 Conclusions 2.7 References 3 Flow Control in compressed Video Communications 3.1 Introduction 3.2 Bit Rate Variability of Video Coders 3.3 Fixed Rate Coding 3.4 Adjusting Encoding Parameters for Rate Control 3.5 Variable Quantisation Step Size Rate Control 3.6 Improved Quality Rate Control Using ROI Coding 3.7 Rate Control Using Prioritised Information Drop 3.8 Rate Control Using the Internal Feedback Loop 3.9 Reduced Resolution Rate Control 3.10 Rate Control Using Multi-layer Coding 3.11 Fine Granular Scaleability 3.12 Conclusions 3.13 References 4 Error Resilience in Compressed Video Communications 4.1 Introduction 4.2 Effects of Bit Errors on Perceptual Video Quality 4.3 Error Concealment Techniques (Zero-redundancy) 4.4 Data Partitioning 4.5 Forward Error Correction (FEC) in Video Communications 4.6 Duplicate MV Information 4.7 INTRA Refresh 4.8 Robust I-frame 4.9 Modified H.263 for Mobile Applications (H/263/M) 4.10 Two-way Decoding and Reversible VLC 4.11 Error-resilient Entropy Coding (EREC) 4.12 Combined Error Resilience Schemes 4.13 Error Resilience Based on Reference Picture Selection 4.14 Conclusions 4.15 References 5 Video Communications Over Mobile IP Networks 5.1 Introduction 5.2 Evolution of 3G Mobile Networks 5.3 Video Communications from a Network Perspective 5.4 Description of Future Mobile Networks 5.5 Qos Issues for Packet Video over Mobile Networks 5.6 Real-time Video transmissions over Mobile IP Networks 5.7 Quality Optimisation for Video transmissions over Mobile Networks 5.8 Prioritised Transport for Robust Video transmissions over Mobile Networks 5.9 Video Ransmissions over GPRS/UMTS Networks 5.10 Conclusions 5.11 References 6 Video Transcoding for Inter-network Communications 6.1 Introduction 6.2 What is Transcoding? 6.3 Homogeneous Video Transcoding 6.4 Bit Rate Reduction 6.5 Cascaded Fully Decoding/Re-encoding Scheme 6.6 Transcoding With Re-quantisation Scheme 6.7 Transcoding With Motion Data Re-use Scheme 6.8 Transcoding With Motion Data Re-estimation Scheme 6.9 Transcoding With Motion Refinement Scheme 6.10 Performance Evaluation of Rate Reduction Transcoding Algorithms 6.11 Frame Rate Reduction 6.12 Resolution Reduction 6.13 Heterogeneous Video Transcoding 6.14 Video Transcoding for Error-resilience Purposes 6.15 Video Transcoding for Multimedia Traffic Planning 6.16 Conclusions 6.17 References Appendix A Layering syntax of ITU-T H.263 video coding standard Appendix B Description of the video clips on the supplementary CD Glossary of Terms Index

《压缩视频通信》

精彩短评

1、非常浅显地介绍从89年以来几乎全部ISO/ITU-T颁布的数字视频压缩算法标准与多媒体应用建议，加入了IP和ATM的介绍性的技术评介,同时加入了一些到写作当时的比较新的研究成果。主要内容有数字视频压缩算法、内部网络视频通信的代码转换等。作为从事网络视频应用开发的人员来说,是一本比较好的教材.当然,这本书也有它的很多的不足之处:首先,由于是老外写的,所以思维和我们的不一样,如果要想看懂,似乎还得要以老外的思维去思考.其次,主要是英文版的,就不用我说了,看起来还是要点基本功的了.总之,是一本好书.推荐大家阅读.

《压缩视频通信》

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:www.tushu000.com