



XUNQI YU

Forward Error Correction (FEC) Coding in Video Network Transmission

Concepts, Modeling and Performance Analysis



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Forward Error Correction Fec Coding In Video Network Transmission Concepts Modeling And Performance Analysis

Thomas P. Bizon



Forward Error Correction Fec Coding In Video Network Transmission Concepts Modeling And Performance Analysis:

Signal and Information Processing, Networking and Computers Na Chen, Tingting Huang, 2016-04-14 The First International Conference on Signal and Information Processing Networking and Computers ICSINC focuses on the key technologies and challenges of signal and information processing schemes network application computer theory and application etc Topics in this conference include Information Theory The work contains state of the art **Electrical & Electronics Abstracts**, 1997 **Scientific and Technical Aerospace Reports**, 1989 **Documentation Abstracts**, 1987 Library & Information Science Abstracts, 2002 Government Reports Announcements & Index, 1992-05

International Aerospace Abstracts, 1995 *ESA Journal*, 1985 **Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards**, 2005 **Government Reports Annual Index**, 1989 Forward Error Correction Coding in Video Network Transmission Xunqi Yu, 2010-06 Forward error correction FEC coding has often been proposed to recover packet losses and improve packet video transport in packet switched communication networks This book proposes a model based analytic approach for evaluating the overall efficacy of FEC coding in combating packet losses in IP networks The approach facilitates the selection of optimal coding strategies for different multimedia applications with various quality of service requirements and system constraints This book then investigates the efficacy of FEC from the perspective of the video application layer and assesses the effectiveness of FEC coding in improving end to end video transport quality A model based framework is developed to describe FEC protected packet video network transport system which is then used to analytically investigate the overall efficacy of packet level FEC in improving the end to end video PSNR quality This book also investigates the accuracy of different discrete time Markov chain models in characterizing the random packet loss process associated with transport networks **Combined Forward Error Correction and Error Concealment for Digital Video Transmission**, 2001

Modeling and Evaluating Feedback-based Error Control for Video Transfer, 2008 Abstract Packet loss can be detrimental to real time interactive video over lossy networks because one lost video packet can propagate errors to many subsequent video frames due to the encoding dependency between frames Feedback based error control techniques use feedback information from the decoder to adjust coding parameters at the encoder or retransmit lost packets to reduce the error propagation due to data loss Feedback based error control techniques have been shown to be more effective than trying to conceal the error at the encoder or decoder alone since they allow the encoder and decoder to cooperate in the error control process However there has been no systematic exploration of the impact of video content and network conditions on the performance of feedback based error control techniques In particular the impact of packet loss round trip delay network capacity constraint video motion and reference distance on the quality of videos using feedback based error

control techniques have not been systematically studied This thesis presents analytical models for the major feedback based error control techniques Retransmission Reference Picture Selection both NACK and ACK modes and Intra Update These feedback based error control techniques have been included in H 263 H 264 and MPEG4 the state of the art video in compression standards Given a round trip time packet loss rate network capacity constraint our models can predict the quality for a streaming video with retransmission Intra Update and RPS over a lossy network In order to exploit our analytical models a series of studies has been conducted to explore the effect of reference distance capacity constraint and Intra coding on video quality The accuracy of our analytical models in predicting the video quality under different network conditions is validated through simulations These models are used to examine the behavior of feedback based error control schemes under a variety of network conditions and video content through a series of analytic experiments Analysis shows that the performance of feedback based error control techniques is affected by a variety of factors including round trip time loss rate video content and the Group of Pictures GOP length In particular 1 RPS NACK achieves the best performance when loss rate is low while RPS ACK outperforms other repair techniques when loss rate is high However RPS ACK performs the worst when loss rate is low Retransmission performs the worst when the loss rate is high 2 for a given round trip time the loss rate where RPS NACK performs worse than RPS ACK is higher for low motion videos than it is for high motion videos 3 Videos with RPS NACK always perform the same or better than videos without repair However when small GOP sizes are used videos without repair perform better than videos with RPS ACK 4 RPS NACK outperform Intra Update for low motion videos However the performance gap between RPS NACK and Intra Update drops when the round trip time or the intensity of video motion increases 5 Although the above trends hold for both VQM and PSNR when VQM is the video quality metric the performance results are much more sensitive to network loss 6 Retransmission is effective only when the round trip time is low When the round trip time is high Partial Retransmission achieves almost the same performance as Full Retransmission These insights derived from our models can help determine appropriate choices for feedback based error control techniques under various network conditions and video content

Linear Network Error Correction Coding Xuan Guang,Zhen Zhang,2014-03-21 There are two main approaches in the theory of network error correction coding In this SpringerBrief the authors summarize some of the most important contributions following the classic approach which represents messages by sequences similar to algebraic coding and also briefly discuss the main results following the other approach that uses the theory of rank metric codes for network error correction of representing messages by subspaces This book starts by establishing the basic linear network error correction LNEC model and then characterizes two equivalent descriptions Distances and weights are defined in order to characterize the discrepancy of these two vectors and to measure the seriousness of errors Similar to classical error correcting codes the authors also apply the minimum distance decoding principle to LNEC codes at each sink node but use distinct distances For this decoding principle it is shown that the

minimum distance of a LNEC code at each sink node can fully characterize its error detecting error correcting and erasure error correcting capabilities with respect to the sink node In addition some important and useful coding bounds in classical coding theory are generalized to linear network error correction coding including the Hamming bound the Gilbert Varshamov bound and the Singleton bound Several constructive algorithms of LNEC codes are presented particularly for LNEC MDS codes along with an analysis of their performance Random linear network error correction coding is feasible for noncoherent networks with errors Its performance is investigated by estimating upper bounds on some failure probabilities by analyzing the information transmission and error correction Finally the basic theory of subspace codes is introduced including the encoding and decoding principle as well as the channel model the bounds on subspace codes code construction and decoding algorithms

Modeling and Analysis of Digital Video Transmission Over Networks Using Packet-level FEC. Xunqi Yu, 2007

Forward error correction FEC has often been proposed to recover packet losses and improve packet video transport in packet switched communication networks The author first study the efficacy of FEC coding at the network layer in terms of the effective packet loss rate The approach considers a simplified network scenario described in terms of a single bottleneck node modeled by a single multiplexer and then finds the optimum compromise between the packet loss recovery capability of FEC and the increased raw packet loss rate caused by the overhead associated with transmitting redundant packets The analysis shows that contrary to some previous conclusions FEC has significant potential in reducing residual packet loss rate provided that the code rate is chosen appropriately By modeling the fully interleaved network transport channel as a block interference channel BIC an information theoretic bound on the performance achievable with FEC is provided We then proceed to investigate the efficacy of FEC from the perspective of the video application layer and assess the effectiveness of FEC coding using the end to end video quality as the evaluation metric A model based framework is developed to describe the FEC protected packet video network transport system which is then used to analytically investigate the overall efficacy of packet level FEC in improving the end to end video quality We provide an analysis of the delay caused by FEC coding decoding and analytically investigate the effects of several important system parameters on the effectiveness of FEC and the optimal selection of FEC coding parameters subject to these constraints Another frequently used technique for improving transport performance on lossy packet networks is multiple description coding MDC Typically MDC and FEC are used separately and independently with resulting performance dependent on network conditions the choice of coding parameters and the applications being transported In this dissertation we propose and analyze a joint MDC and FEC coding approach for delay constrained applications on congested networks under some idealized modeling assumptions which are nevertheless sufficient to draw some qualitative conclusions Path diversity has recently been proposed to improve network transport for both single description SD and multiple description MD coded video In this work we model and analyze an SD coded video transmission system employing packet level FEC in combination with path diversity In particular we provide a precise

analytical approach to evaluating the efficacy of path diversity in reducing the burstiness of network packet loss processes We use this approach to quantitatively demonstrate the advantages of path diversity in improving end to end video transport performance using packet level FEC As part of this work we also investigate the accuracy of Gilbert models and other low complexity discrete time Markov chain models in characterizing the packet loss process associated with a transport network whose behavior can be described in terms of a single bottleneck node modeled by a single multiplexer It is demonstrated that although higher order Markov chain models can achieve increasingly more accurate descriptions the Gilbert model has some serious deficiencies in predicting the packet loss statistics of the single multiplexer model for a variety of packet arrival processes We show that this has some serious consequences for the performance evaluation of forward error correction FEC coding schemes using Markov chain models compared to that predicted by an exact queueing analysis of the single multiplexer model

Real-time Transmission of Digital Video Using Variable-length Coding Thomas P. Bizon,1993

Error Correction and Concealment of Block Based, Motion-compensated Temporal Prediction, Transform Coded Video David Lee Robie,2005 The use of the Internet and wireless networks to bring multimedia to the consumer continues to expand The transmission of these products is always subject to corruption due to errors such as bit errors or lost and ill timed packets however in many cases such as real time video transmission retransmission request ARQ is not practical Therefore receivers must be capable of recovering from corrupted data Errors can be mitigated using forward error correction in the encoder or error concealment techniques in the decoder This thesis investigates the use of forward error correction FEC techniques in the encoder and error concealment in the decoder in block based motion compensated temporal prediction transform codecs It will show improvement over standard FEC applications and improvements in error concealment relative to the Motion Picture Experts Group MPEG standard To this end this dissertation will describe the following contributions and proofs of concept in the area of error concealment and correction in block based video transmission A temporal error concealment algorithm which uses motion compensated macroblocks from previous frames A spatial error concealment algorithm which uses the Hough transform to detect edges in both foreground and background colors and using directional interpolation or directional filtering to provide improved edge reproduction A codec which uses data hiding to transmit error correction information An enhanced codec which builds upon the last by improving the performance of the codec in the error free environment while maintaining excellent error recovery capabilities A method to allocate Reed Solomon R S packet based forward error correction that will decrease distortion using a PSNR metric at the receiver compared to standard FEC techniques Finally under the constraints of a constant bit rate the tradeoff between traditional R S FEC and alternate forward concealment information FCI is evaluated Each of these developments is compared and contrasted to state of the art techniques and are able to show improvements using widely accepted metrics The dissertation concludes with a discussion of future work

Interleaved Source Coding for Packet Video Over Erasure

Channels Jin Young Lee,2008 *Intelligent Forward Error Correction for Video Transmission Over CDMA* Srinivasan
Seetharaman,2001 Efficient Forward Error Correction Coding Technique for Spread Spectrum Communications ,2000

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