



Video Coding with Superimposed Motion-Compensated Signals: Applications to H.264 and Beyond (The Springer International Series in Engineering and Computer Science)

Markus Flierl, Bernd Girod

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Appendices 133 A Mathematical Results 133 A.1 Singularities of the Displacement Error Covariance Matrix 133 A.2 A Class of Matrices and their Eigenvalues 134 A.3 Inverse of the Power Spectral Density Matrix 134 A.4 Power Spectral Density of a Frame 136 Glossary 137 References 141 Index 159 Preface This book aims to capture recent advances in motion compensation for efficient video compression. It investigates linearly combined motion compensated signals and generalizes the well known superposition for bidirectional prediction in B-pictures. The number of superimposed signals and the selection of reference pictures will be important aspects of the discussion. The application oriented part of the book employs this concept to the well known ITU-T Recommendation H.263 and continues with the improvements by superimposed motion-compensated signals for the emerging ITU-T Recommendation H.264 and ISO/IEC MPEG-4 (Part 10). In addition, it discusses a new approach for wavelet-based video coding. This technology is currently investigated by MPEG to develop a new video compression standard for the mid-term future.

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