

**Mvs Multi**

Jakob Vlietstra

## **Video Error Concealment Techniques for Multi-Broadcast Reception of Digital TV** Tobias Tröger, 2012-10-02 Abstract

The transmission of digital TV signals to mobile receivers is often error-prone. As most TV broadcasting techniques provide only moderate error robustness, horizontal lines of consecutive image blocks are lost during decoding of the received video signals. In order to ensure high viewing experiences, these lost slices have to be filled by error concealment techniques. However, the reconstruction qualities of classical approaches which exploit spatial, temporal, or spatio-temporal signal correlations are not convincing yet. In the future, mobile TV receivers will support different broadcasting techniques in parallel. As a result, an erroneous high-resolution video signal and a correctly received low-resolution video signal, both representing the same TV service, will often be available. Focusing on the outlined scenario for multi-broadcast reception of digital TV signals, this thesis introduces the novel category of inter-sequence error concealment algorithms. The basic idea is to fill lost slices of the high-resolution video signal by the interpolated low-resolution video signal. Since the images of this reference signal are often cropped and delayed, robust spatio-temporal image alignment is crucial. By including a pixel-based or a feature-based alignment scheme, the proposed concealment algorithms provide excellent visual qualities and outstanding reconstruction qualities of up to 41 dB PSNR. Classical concealment techniques are outperformed by up to 15 dB PSNR. To further enhance the reconstruction quality, several extensions are introduced. First, the alignment robustness and the interpolation quality are increased. Subsequently, a classical temporal approach is incorporated as an alternative concealment mode to cope with low image qualities of the reference signal. Novel aspects include robust mode selection, enhanced motion estimation, and the reconstruction of the displaced frame differences from the reference signal. As a last extension, spatial refinement tackles blurring of concealed image blocks. Missing spectral components are recovered in a frequency selective way based on approximation and extrapolation principles. By combining all relevant extensions, the PSNR gain adds up to 20 dB with respect to classical concealment. Finally, inter-sequence error concealment is adapted to multi-broadcast reception of two erroneous high-resolution video signals. While spatial alignment can be omitted, classical concealment of blocks, being lost in both video signals, and drift compensation in predictively-coded frames are novel aspects. Again, high visual qualities are obtained and classical concealment is outperformed by up to 15 dB PSNR.

Zusammenfassung Der Empfang digitaler Fernsehsignale mit mobilen Endgeräten wird meist durch Übertragungsfehler gestört. Da viele der eingesetzten Übertragungsstandards nur unzureichende Korrekturmechanismen bieten, können bei der Decodierung der empfangenen Videosignale Blockzeilenverluste auftreten. Um die Verlustgebiete zu verschleiern, werden üblicherweise zeitliche, örtliche oder zeitlich-örtliche Signalkorrelationen ausgenutzt. Die dabei erzielte Rekonstruktionsqualität ist jedoch häufig nicht zufriedenstellend. Zukünftig werden mobile Fernsehempfänger mehrere Übertragungsstandards parallel unterstützen. Durch den Einsatz dieser Mehrfachempfänger ist jedes Fernsehprogramm typischerweise in Form eines gestörten, hochauflösenden Videosignals und eines ungestörten, niedrigauflösenden Videosignals verfügbar. Ausgehend vom Mehrfachempfang digitaler Fernsehsignale wird in dieser Arbeit eine neue Gruppe von Verfahren zur Fehlerverschleierung beschrieben. Die grundlegende Idee dieser Ansätze besteht darin, verlorene Bildblöcke des hochauflösenden Videosignals durch Blöcke des interpolierten niedrigauflösenden Referenzsignals zu ersetzen. Da das Referenzsignal häufig nur Bildausschnitte zeigt und zudem meist zeitverzögert eintrifft, ist die korrekte Bestimmung der örtlichen Abbildungsparameter und des zeitlichen Versatzes ausschlaggebend für eine hochqualitative Verschleierung. Durch den Einsatz bildbasierter oder merkmalsbasierter Schätzverfahren werden eine exzellente

visuelle Bildqualität und eine außergewöhnlich hohe Rekonstruktionsqualität erzielt. Der Spitzensignal-Rauschabstand beträgt bis zu 41 dB. Herkömmliche Verfahren werden um bis 15 dB übertroffen. Um die Rekonstruktionsqualität weiter zu erhöhen werden zahlreiche Erweiterungen der beschriebenen Verschleierungsansätze vorgeschlagen. Zuerst werden die Zuverlässigkeit der Parameterschätzung und die Interpolationsqualität verbessert. Danach wird ein herkömmliches zeitliches Verschleierungsverfahren integriert, um eine niedrige Bildqualität des Referenzsignals zu kompensieren. Neue Aspekte sind dabei die robuste Wahl des besseren Verschleierungsmodus, eine verbesserte Bewegungsschätzung und die Rekonstruktion des Prädiktionsfehlers unter Verwendung des Referenzsignals. Zuletzt wird die Bildschärfe bereits verschleierter Blöcke erhöht. Dazu werden fehlende Spektralanteile basierend auf frequenzselektiven Approximations- oder Extrapolationsansätzen wiederhergestellt. Durch die Kombination aller relevanten Erweiterungen wird die Rekonstruktionsqualität herkömmlicher Verfahren um bis zu 20 dB übertroffen. Abschließend werden die beschriebenen Fehlerverschleierungsverfahren an ein Szenario für den Mehrfachempfang digitaler Fernsehsignale angepasst, bei dem zwei fehlerhafte hochauflösende Videosignale verfügbar sind. Während die Schätzung der örtlichen Abbildungsparameter entfällt, müssen Bildblöcke, die in keinem der beiden Videosignale korrekt empfangen wurden, durch herkömmliche Verfahren verschleiert werden. Als weitere Neuerung wird ein Verfahren zur Kompensation des Drifteffekts in prädiktiv codierten Bildern vorgeschlagen. Auch bei diesem Empfangsszenario wird eine hohe visuelle Bildqualität erzielt und die Rekonstruktionsqualität herkömmlicher Verfahren um bis zu 15 dB übertroffen.

Multi-sensor System Applications in the Everglades Ecosystem Caiyun Zhang, 2020-01-06 This book explores the applicability of multiple remote sensors to acquire information relevant to restoration and conservation efforts in wetlands using data collected from airborne and space multispectral/hyperspectral sensors, light detection and ranging (LiDAR), Unmanned Aircraft Systems (UAS), and a hand-held spectroradiometer. This book also examines digital data processing techniques such as object-based image analysis, machine learning, texture analysis, and data fusion. After an introduction to the Everglades and to remote sensing, the book is divided into four parts based on the sensor systems used. There are chapters on vegetation mapping, biomass and water quality modeling, applications of hyperspectral data for plant stress analysis and coral reef mapping, studies of airborne LiDAR data for coastal vulnerability analysis and DEM improvement, as well as chapters that explore a fusion of multiple sensors for different datasets. Features Introduces concepts, theories, and advanced processing techniques A complete introduction of machine learning, object-based image analysis, data fusion, and ensemble analysis techniques in processing data from multiple remote sensors Explains how multiple remote sensing systems are applied in the wetland ecosystems of Florida The author had been teaching and using both systems and her research is widely recognized Multi-sensor System Applications in the Everglades Ecosystems provides a comprehensive application of remote sensing techniques in the Florida Everglades and its coastal ecosystems. It will prove an invaluable resource for the restoration and conservation of the Florida Everglades and beyond, for global wetlands in general. Any professional, scientist, engineer, or student working with remote sensing and wetland ecosystems will reap enormous benefits from this book.

**Dictionary of Acronyms and Technical Abbreviations** Jakob Vlietstra, 2012-12-06 This Dictionary covers information and communication technology (ICT), including hardware and software; information networks, including the Internet and the World Wide Web; automatic control; and ICT-related computer-aided fields. The Dictionary also lists abbreviated names of relevant organizations, conferences, symposia and workshops. This reference is important for all practitioners and users in the areas mentioned above, and those who consult or write technical material. This

Second Edition contains 10,000 new entries, for a total of 33,000.

Scholar's Invitation To Computer Science 9 Ashok Arora,

**Artificial Neural Networks and Machine Learning – ICANN 2023** Lazaros Iliadis, Antonios Papaleonidas, Plamen Angelov, Chrisina Jayne, 2023-09-21 The 10-volume set LNCS 14254-14263 constitutes the proceedings of the 32nd International Conference on Artificial Neural Networks and Machine Learning, ICANN 2023, which took place in Heraklion, Crete, Greece, during September 26-29, 2023. The 426 full papers, 9 short papers and 9 abstract papers included in these proceedings were carefully reviewed and selected from 947 submissions. ICANN is a dual-track conference, featuring tracks in brain inspired computing on the one hand, and machine learning on the other, with strong cross-disciplinary interactions and applications.

**Implementing REXX Support in SDSF** Lydia Parziale, Amy Miu, Richard Levey, Ludvik Drobnic Martinez, Dario Facchinetti, IBM Redbooks, 2007-06-26 The Restructured Extended Executor (REXX) language is a procedural language that allows you to write programs and algorithms in a clear and structural way. It is an interpreted and compiled language, and you do not have to compile a REXX command list before executing it. With IBM z/OS V1.9, you can harness the versatility of REXX to interface and interact with the power of SDSF. A new function called REXX with SDSF is available that provides access to SDSF functions through the use of the REXX programming language. This REXX support provides a simple and powerful alternative to using SDSF batch. This IBM Redbooks publication describes the new support and provides sample REXX execs that exploit the new function and that perform real-world tasks related to operations, systems programming, system administration, and automation. This book complements the SDSF documentation, which is primarily reference information. The audience for this book includes operations support, system programmers, automation support, and anyone with a desire to access SDSF using a REXX interface.

**State-of-the-art technology and applications in crop phenomics, volume II** Wanneng Yang, John Doonan, Xinyu Guo, Xiaohui Yuan, Feng Ling, 2023-06-06

Database and Expert Systems Applications Sven Hartmann, Josef Küng, Sharma Chakravarthy, Gabriele Anderst-Kotsis, A Min Tjoa, Ismail Khalil, 2019-08-19 This two volume set of LNCS 11706 and LNCS 11707 constitutes the refereed proceedings of the 30th International Conference on Database and Expert Systems Applications, DEXA 2019, held in Linz, Austria, in August 2019. The 32 full papers presented together with 34 short papers were carefully reviewed and selected from 157 submissions. The papers are organized in the following topical sections: Part I: Big data management and analytics; data structures and data management; management and processing of knowledge; authenticity, privacy, security and trust; consistency, integrity, quality of data; decision support systems; data mining and warehousing. Part II: Distributed, parallel, P2P, grid and cloud databases; information retrieval; Semantic Web and ontologies; information processing; temporal, spatial, and high dimensional databases; knowledge discovery; web services.

*Unix and C Programming* Ashok Arora, Shefali Bansal, 2005

**VCSEL Industry** Babu Dayal Padullaparthi, Jim Tatum, Kenichi Iga, 2021-12-29 A hands-on reference to the technical, commercial, and industrial aspects of VCSEL technology In VCSEL Industry: Communication and Sensing, a team of distinguished researchers and manufacturing professionals deliver a thorough and practical reference guide to vertical-cavity surface-emitting lasers (VCSELs) for young entrepreneurs, investors, venture capitalists, and researchers. The authors offer comprehensive descriptions of the technology involved, as well as a robust exploration of the industry and commercial landscape in which VCSELs exist. The book contains numerous illustrations and schematics of the anatomy of VCSEL product developments and an insightful discussion of the

proliferation of VCSELs in photonics and optics. There is also a dedicated section on photoreceivers used for VCSEL-based data communications and sensing. VCSEL Industry: Communication and Sensing provides readers with an accessible, commercial perspective of an important technology while offering just enough technical detail to make sense of the subject. The book also includes: A thorough introduction to VCSELs, including discussions of semiconductor lasers, materials, wavelengths, and why VCSELs are attractive for photonics applications Comprehensive explorations of the VCSEL industry, including market demands, an industry landscape, descriptions of commercial products based on VCSELs, and business models Practical discussions of VCSELs for data communication, including high-speed VCSELs, gain and parasitic effects on bandwidth and speed, and form factors and standards In-depth examinations of VCSEL arrays for sensing, including high-power VCSELs in consumer electronics Perfect for early-career researchers, engineers, entrepreneurs, investors, and managers, VCSEL Industry: Communication and Sensing will also prove to be an invaluable addition to the libraries of executives from across the semiconductor industry.

*Computer Fundamentals and Applications* Ashok Arora, 2015 With the invention of computers and the advent of the Internet, mobile computing and e-Business applications, Information Technology (IT) has brought rapid progress in domestic and international business, and a tremendous change in the lifestyle of people. This book provides the students not just the knowledge about the fundamentals of a computer system, like its organization, memory management and hardware devices, but also the software that run on it. The book then proceeds to describe operating systems, and the basics of programming concepts like procedure-oriented programming and object-oriented programming. Useful application software like MS Word, MS Excel and MS PowerPoint are described in great detail in separate chapters. A complete section has been devoted to the teaching of data communication, networking and Internet. The book ends with a detailed description of the business applications of computers. KEY FEATURES • Incorporates basics of IT along with developing skills for using various IT tools • Includes diagrams, pictures and screenshots • Provides key terms, review questions, practical exercises, group discussions, project activities and application-based case studies in each chapter • Follows the latest curriculum and guidelines for undergraduate and postgraduate courses of various universities, colleges and institutes

**Research Anthology on Multi-Industry Uses of Genetic Programming and Algorithms** Management Association, Information Resources, 2020-12-05 Genetic programming is a new and evolutionary method that has become a novel area of research within artificial intelligence known for automatically generating high-quality solutions to optimization and search problems. This automatic aspect of the algorithms and the mimicking of natural selection and genetics makes genetic programming an intelligent component of problem solving that is highly regarded for its efficiency and vast capabilities. With the ability to be modified and adapted, easily distributed, and effective in large-scale/wide variety of problems, genetic algorithms and programming can be utilized in many diverse industries. This multi-industry uses vary from finance and economics to business and management all the way to healthcare and the sciences. The use of genetic programming and algorithms goes beyond human capabilities, enhancing the business and processes of various essential industries and improving functionality along the way. The Research Anthology on Multi-Industry Uses of Genetic Programming and Algorithms covers the implementation, tools and technologies, and impact on society that genetic programming and algorithms have had throughout multiple industries. By taking a multi-industry approach, this book covers the fundamentals of genetic programming through its technological benefits and challenges along with the latest advancements and future outlooks for computer science. This book is ideal for academicians, biological engineers, computer programmers, scientists, researchers,

and upper-level students seeking the latest research on genetic programming.

**Exploring IBM E-business Software** Casey Young, 2003 This detailed look at IBM's software products for e-business enables IBM users to gain a fundamental understanding of e-business architecture, where IBM software products fit into that architecture, and where to go to get more information. The main products and platforms for development tools and components, application server software, and secure network and management software are described. This book also distinguishes between two or more IBM software products that appear to serve the same purpose but really have different applications. Key products covered include DB2, Web Sphere, Lotus Domino, and Tivoli. This replaces 1885068581.

**Plasticity in Multiple Sclerosis: from molecular to system level, from adaptation to maladaptation** Daniel Zeller, Maria Assunta Rocca, 2016-01-27 This research topic aims at providing a state of the art update on neuroplasticity in humans with multiple sclerosis. It summarizes advances in plasticity research as achieved by a variety of techniques, in the motor as well as visual and cognitive domain. We are confident that this collection of articles broadens the view across systems and techniques and widens our understanding of this exciting field of research.

**Neural Information Processing** Biao Luo, Long Cheng, Zheng-Guang Wu, Hongyi Li, Chaojie Li, 2023-11-26 The nine-volume set constitutes the refereed proceedings of the 30th International Conference on Neural Information Processing, ICONIP 2023, held in Changsha, China, in November 2023. The 1274 papers presented in the proceedings set were carefully reviewed and selected from 652 submissions. The ICONIP conference aims to provide a leading international forum for researchers, scientists, and industry professionals who are working in neuroscience, neural networks, deep learning, and related fields to share their new ideas, progress, and achievements.

**Complex, Intelligent and Software Intensive Systems** Leonard Barolli, 2023-06-18 This book aims to deliver a platform of scientific interaction between the three interwoven challenging areas of research and development of future ICT-enabled applications: software intensive systems, complex systems and intelligent systems. Software intensive systems are systems, which heavily interact with other systems, sensors, actuators, devices, other software systems and users. More and more domains are involved with software intensive systems, e.g., automotive, telecommunication systems, embedded systems in general, industrial automation systems and business applications. Moreover, the outcome of web services delivers a new platform for enabling software intensive systems. Complex systems research is focused on the overall understanding of systems rather than its components. Complex systems are very much characterized by the changing environments in which they act by their multiple internal and external interactions. They evolve and adapt through internal and external dynamic interactions. The development of intelligent systems and agents, which is each time more characterized by the use of ontologies and their logical foundations, builds a fruitful impulse for both software intensive systems and complex systems. Recent research in the field of intelligent systems, robotics, neuroscience, artificial intelligence and cognitive sciences are very important factor for the future development and innovation of software intensive and complex systems.

**Computer Vision -- ACCV 2012** Kyoung Mu Lee, Yasuyuki Matsushita, James M. Rehg, Zhanyi Hu, 2013-03-27 The four-volume set LNCS 7724--7727 constitutes the thoroughly refereed post-conference proceedings of the 11th Asian Conference on Computer Vision, ACCV 2012, held in Daejeon, Korea, in November 2012. The total of 226 contributions presented in these volumes was carefully reviewed and selected from 869 submissions. The papers are organized in topical sections on object detection, learning and matching; object recognition; feature, representation, and recognition; segmentation, grouping, and classification; image representation; image and video retrieval and

medical image analysis; face and gesture analysis and recognition; optical flow and tracking; motion, tracking, and computational photography; video analysis and action recognition; shape reconstruction and optimization; shape from X and photometry; applications of computer vision; low-level vision and applications of computer vision.

**8000+ ABBREVIATION OF COMPUTERS** ,2020-04-25 This book consists the fundamentals of computer application for beginners as well experts.

Computer Vision - ECCV 2022 Shai Avidan,Gabriel Brostow,Moustapha Cissé,Giovanni Maria Farinella,Tal Hassner,2022-10-22 The 39-volume set, comprising the LNCS books 13661 until 13699, constitutes the refereed proceedings of the 17th European Conference on Computer Vision, ECCV 2022, held in Tel Aviv, Israel, during October 23-27, 2022. The 1645 papers presented in these proceedings were carefully reviewed and selected from a total of 5804 submissions. The papers deal with topics such as computer vision; machine learning; deep neural networks; reinforcement learning; object recognition; image classification; image processing; object detection; semantic segmentation; human pose estimation; 3d reconstruction; stereo vision; computational photography; neural networks; image coding; image reconstruction; object recognition; motion estimation.

**Basic of Computer and Information Technology ( For Bihar Polytechnic)** Ashok Arora, This book written as per the syllabus of Bihar Polytechnic, provides the students not just the knowledge about the fundamentals of a computer system, like its organization, memory management and hardware devices, but also the software that run on it. The book then proceeds to describe operating systems, and the basics of programming concepts like procedure-oriented programming and object-oriented programming. Useful application software like MS Word, MS Excel and MS PowerPoint are described in great detail in separate chapters. A complete section has been devoted to the teaching of data communication, networking and Internet. The book ends with a detailed description of the business applications of computers.

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