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Sommario/riassunto

This book presents the state-of-the-art in visual media coding and transmission. Visual Media Coding and Transmission is an output of VISNET II NoE, which is an EC IST-FP6 collaborative research project by twelve esteemed institutions from across Europe in the fields of networked audiovisual systems and home platforms. The authors

provide information that will be essential for the future study and development of visual media communications technologies. The book contains details of video coding principles, which lead to advanced video coding developments in the form of Scalable Coding, Distributed Video Coding, Non-Normative Video Coding Tools and Transform Based Multi-View Coding. Having detailed the latest work in Visual Media Coding, networking aspects of Video Communication is detailed. Various Wireless Channel Models are presented to form the basis for both link level quality of service (QoS) and cross network transmission of compressed visual data. Finally, Context-Based Visual Media Content Adaptation is discussed with some examples. Key Features: . Contains the latest advances in this important field covered by VISNET II NoE . Addresses the latest multimedia signal processing and coding algorithms . Covers all important advance video coding techniques, scalable and multiple description coding, distributed video coding and non-normative tools . Discusses visual media networking with various wireless channel models . QoS methods by way of link adaptation techniques are detailed with examples . Presents a visual media content adaptation platform, which is both context aware and digital rights management enabled . Contains contributions from highly respected academic and industrial organizations Visual Media Coding and Transmission will benefit researchers and engineers in the wireless communications and signal processing fields. It will also be of interest to graduate and PhD students on media processing, coding and communications courses.
