SCALABLE VIDEO ON DEMAND - ADAPTIVE INTERNET-BASED DISTRIBUTION

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Zink, Michael

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In recent years, the proliferation of available video content and the popularity of the Internet have encouraged service providers to develop new ways of distributing content to clients. Increasing video scaling ratios and advanced digital signal processing techniques have led to Internet Video-on-Demand applications, but these currently lack efficiency and quality. Scalable Video on Demand: Adaptive Internet-based Distribution examines how current video compression and streaming can be used to deliver high-quality applications over the Internet. In addition to analysing the problems of client heterogeneity and the absence of Quality of Service in the Internet, this book: assesses existing products and encoding formats; presents new algorithms and protocols for optimised on-line video streaming architectures; includes real-world application examples and experiments; sets out a practical 'toolkit' for Dynamically Reconfigurable Multimedia Distribution Systems. Written by an expert in the field of video distribution, Scalable Video on Demand: Adaptive Internet-based Distribution provides a novel approach to the design and implementation of Video-on-Demand systems for Software Engineers and researchers. It will also be useful for graduate students following Electronic Engineering and Computer Science courses.

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