

Srdjan Stanković · Irena Orović
Ervin Sejdić

Multimedia Signals and Systems

Basic and Advanced Algorithms for
Signal Processing

Second Edition

 Springer

Multimedia Signals And Systems

**Jeng-Shyang Pan,Akinori Ito,Pei-Wei
Tsai,Lakhmi C. Jain**



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Stanković,Irena Orović,Ervin Sejdić,2015-12-21 This book is designed for students professionals and researchers in the field of multimedia and related fields with a need to learn the basics of multimedia systems and signal processing Emphasis is given to the analysis and processing of multimedia signals audio images and video Detailed insight into the most relevant mathematical apparatus and transformations used in multimedia signal processing is given A unique relationship between different transformations is also included opening new perspectives for defining novel transforms in specific applications Special attention is dedicated to the compressive sensing area which has a great potential to contribute to further improvement of modern multimedia systems In addition to the theoretical concepts various standard and more recently accepted algorithms for the reconstruction of different types of signals are considered Additional information and details are also provided to enable a comprehensive analysis of audio and video compression algorithms Finally the book connects these principles to other important elements of multimedia systems such as the analysis of optical media digital watermarking and telemedicine New to this edition Introduction of the generalization concept to consolidate the time frequency signal analysis wavelet transformation and Hermite transformation Inclusion of prominent robust transformation theory used in the processing of noisy multimedia data as well as advanced multimedia data filtering approaches including image filtering techniques for impulse noise environment Extended video compression algorithms Detailed coverage of compressive sensing in multimedia applications

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Selecting Digital Computer Signal Systems Charles R. Stockfisch,United States. Federal Highway Administration. Offices of Research and Development,1972

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Processing Jeng-Shyang Pan,Pei-Wei Tsai,Junzo Watada,Lakhmi C. Jain,2017-07-15 This volume includes papers presented at IIH MSP 2017 the 13th International Conference on Intelligent Information Hiding and Multimedia Signal Processing held from 12 to 15 August 2017 in Matsue Shimane Japan The conference addresses topics ranging from information hiding and security and multimedia signal processing and networking to bio inspired multimedia technologies and systems This volume

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