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Textbook

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Signal Processing

Foundations

Martin Vetterli École Polytechnique Fédérale de Lausanne

Jelena Kovačević Carnegie Mellon University

Vivek Goyal Massachusetts Institute of Technology

Blending theory and practice, this comprehensive textbook introduces basic, essential principles in signals and systems theory, and demonstrates how these fundamentals may be used across a broad range of applications, including filter banks, de-noising, and compression. A thorough treatment of computational implementation, providing guidance on the development of practical algorithms, accompanies discussion of such key concepts, and includes numerous worked examples, downloadable MATLAB simulations and homework exercises, all specifically designed to test and expand students' understanding of the fundamentals of signal processing.

Contents

 On Rainbows and Spectra • 2. From Euclid to Hilbert • 3. Sequences and Discrete-Time Systems • 4. Functions and Continuous-Time Systems • 5. Sampling and Interpolation • 6. Approximation and Compression • 7. Localization and Uncertainty

October 2012 • c. 600pp • HB • c. £45 / \$70 For further information, please contact Phil Meyler pmeyler@cambridge.org

Meet the Authors

T14 Teaching Signal Processing with Geometry ICASSP 2012 • Monday March 26th • 1400 – 1700 • Room C-1

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