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Nota di contenuto	Wavelets and their Applications; Table of Contents; Notations; Introduction; Chapter 1. A Guided Tour; 1.1. Introduction; 1.2. Wavelets; 1.2.1. General aspects; 1.2.2. A wavelet; 1.2.3. Organization of wavelets; 1.2.4. The wavelet tree for a signal; 1.3. An electrical consumption signal analyzed by wavelets; 1.4. Denoising by wavelets: before and afterwards; 1.5. A Doppler signal analyzed by wavelets; 1.6. A Doppler signal denoised by wavelets; 1.7. An electrical signal denoised by wavelets; 1.8. An image decomposed by wavelets; 1.8.1. Decomposition in tree form 1.8.2. Decomposition in compact form 1.9. An image compressed by wavelets; 1.10. A signal compressed by wavelets; 1.11. A fingerprint compressed using wavelet packets; Chapter 2. Mathematical Framework; 2.1. Introduction; 2.2. From the Fourier transform to the Gabor transform; 2.2.1. Continuous Fourier transform; 2.2.2. The Gabor transform; 2.3. The continuous transform in wavelets; 2.4. Orthonormal wavelet bases; 2.4.1. From continuous to discrete transform; 2.4.2. Multi-resolution analysis and orthonormal wavelet

bases; 2.4.3. The scaling function and the wavelet; 2.5. Wavelet packets 2.5.1. Construction of wavelet packets 2.5.2. Atoms of wavelet packets; 2.5.3. Organization of wavelet packets; 2.6. Biorthogonal wavelet bases; 2.6.1. Orthogonality and biorthogonality; 2.6.2. The duality raises several questions; 2.6.3. Properties of biorthogonal wavelets; 2.6.4. Semi-orthogonal wavelets; Chapter 3. From Wavelet Bases to the Fast Algorithm; 3.1. Introduction; 3.2. From orthonormal bases to the Mallat algorithm; 3.3. Four filters; 3.4. Efficient calculation of the coefficients; 3.5. Justification: projections and twin scales; 3.5.1. The decomposition phase 3.5.2. The reconstruction phase 3.5.3. Decompositions and reconstructions of a higher order; 3.6. Implementation of the algorithm; 3.6.1. Initialization of the algorithm; 3.6.2. Calculation on finite sequences; 3.6.3. Extra coefficients; 3.7. Complexity of the algorithm; 3.8. From 1D to 2D; 3.9. Translation invariant transform; 3.9.1. -decimated DWT; 3.9.2. Calculation of the SWT; 3.9.3. Inverse SWT; Chapter 4. Wavelet Families; 4.1. Introduction; 4.2. What could we want from a wavelet?; 4.3. Synoptic table of the common families; 4.4. Some well known families 4.4.1. Orthogonal wavelets with compact support 4.4.1.1. Daubechies wavelets: dbN; 4.4.1.2. Symlets: symN; 4.4.1.3. Coiflets: coifN; 4.4.2. Biorthogonal wavelets with compact support: bior; 4.4.3. Orthogonal wavelets with non-compact support; 4.4.3.1. The Meyer wavelet: meyr; 4.4.3.2. An approximation of the Meyer wavelet: dmey; 4.4.3.3. Battle and Lemarie wavelets: btlm; 4.4.4. Real wavelets without filters; 4.4.4.1. The Mexican hat: mexh; 4.4.4.2. The Morlet wavelet: morl; 4.4.4.3. Gaussian wavelets: gausN; 4.4.5. Complex wavelets without filters; 4.4.5.1. Complex Gaussian wavelets: cgau 4.4.5.2. Complex Morlet wavelets: cmorl

Sommario/riassunto

The last 15 years have seen an explosion of interest in wavelets with applications in fields such as image compression, turbulence, human vision, radar and earthquake prediction. Wavelets represent an area that combines signal in image processing, mathematics, physics and electrical engineering. As such, this title is intended for the wide audience that is interested in mastering the basic techniques in this subject area, such as decomposition and compression.

2. Record Nr.	UNINA9910736010503321
Autore	Derakhshan Ali
Titolo	Instructed Second Language Pragmatics for The Speech Acts of Request, Apology, and Refusal: A Meta-Analysis / / by Ali Derakhshan, Farzaneh Shakki
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Nota di contenuto	1. Overview of Theoretical Frameworks -- 2. Empirical Background -- 3. Design of the Study -- 4. Results -- 5. Conclusions, Pedagogical Implications, and Directions for Future Research. .
Sommario/riassunto	Pragmatic instruction has received momentous attention in Second Language Acquisition (SLA) over the last decades. In order to scrutinize the effectiveness of L2 instruction, meta-analyses are warranted; nonetheless, meta-analyses have been largely neglected, despite the fact that they provide a systematic explanation of the findings from the previous studies. Since meta-analysis is flourishing by leaps and bounds in each and every field, pragmatic studies are not the exception, and among miscellaneous constructs and units of analysis in pragmatics, the speech acts of request, apology, and refusal are investigated in this book. To bridge this gap, this book mainly presents the variables which can moderate the effectiveness of L2 instruction such as age, gender, proficiency, outcome measures, psycholinguistic features, research design, and treatment types. The first chapter of the book outlines the theoretical underpinnings of the study, accentuating the importance of conducting meta-analysis in this field of study. The

second chapter elaborates on the empirical studies and a thorough review of the relevant research. The third chapter deals with the design of the study in which the inclusion and exclusion criteria, effect size calculation, coding of the variables, and reliability have been outlined while chapter four presents the obtained outcomes and results of the study. The last chapter describes the final remarks of the study, the limitations, implications, and the directions for future research in the field of pragmatics instruction. .
