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Courses » Introduction to Time-Frequency Analysis and Wavelet Transforms **Announcements** Course Ask a Question **Progress** Unit 16 - Week 11: Discrete Wavelet Transforms (Contd..) Course outline Assignment for week 10 and week 11 The due date for submitting this assignment has passed. Due on 2016-10-02, 23:59 I Registration for As per our records you have not submitted this assignment. MATLAB Exam How to access the 1. Which of the following is/are TRUE regarding DWT using orthonormal basis functi MATLAB Online Access **MATLAB Tutorials** (a) Scaling functions and its translates at a particular scale are orthonormal. created by MathWorks (b) Wavelet and its translates are orthonormal at a particular scale. Week 1: Introduction. (c) Scaling functions across different scales are orthonormal. Basic definitions and Concepts (d) Wavelets across different scales are orthonormal. Week 2: Fourier a transforms (a review) ■ b Week 3: Duration and C Bandwidth l d Week 4: Short-time No, the answer is incorrect. Fourier transform **Accepted Answers:** Week 5: Wigner-Ville Distributions Week 6: Wigner-Ville d Distributions (Contd..) 2) 1 point Week 7: Continuous 2. Select the correct statement with respect to MRA: Wavelet Transforms (a) Any function in V_{m-1} can be expressed using the basis functions of V_m . Week 8: Continuous **Wavelet Transforms** (b) Any function in W_{m-1} can be expressed using the basis functions of V_{m-1} . (Contd..) (c) Any function in W_m can be expressed using the basis functions of V_{m-1} . Week 9: Discrete (d) All of the above. Wavelet Transforms Week 10: Discrete **Wavelet Transforms** b (Contd..) 0 c Week 11: Discrete \bigcirc d **Wavelet Transforms** (Contd..) No, the answer is incorrect. Score: 0 Lecture 8.4A: Wavelets for DWT (Part 1) **Accepted Answers:** Lecture 8.4B: Wavelets for DWT (Part 2) 1 point Lecture 8.4C: Wavelets 3. Which of the following is/are **incorrect** w.r.t. biorthogonal wavelet transform? for DWT (Part 3) Lecture 8.5A: MATLAB (a) The synthesis and analysing functions are identical in a biorthogonal wavelet transform Demonstration (b) The analysing scaling and wavelet functions are orthogonal to each other. Model questions for final (c) The analysis scaling and the synthesis wavelet functions are orthogonal to each other. exam O Solutions to Week 10 (d) The synthesis scaling and the analysing wavelet functions are orthogonal to each other and 11 Assignment Ouiz: Assignment for Па week 10 and week 11 □ b O Data set for MATLAB _ c model question d

Week 12: DWT (Contd..) and Closing Summary

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	No, the answer is incorrect. Score: 0 Accepted Answers:	
	4)	1 point
	4. Select the correct statement(s) from the following:	, point
	 (a) Daubechies wavelets are non-orthogonal. (b) For given vanishing moments, Coiflets are wider than Daubechies wavelets. (c) Daubechies wavelets are symmetric. (d) Coiflets are orthogonal. 	f V
	a b c d	in g+
	Score: 0 Accepted Answers: b d	
	5. Which of the following statement(s) is/are correct with respect to the Haar v	1 point
	(a) $\sqrt{2}\phi(t) = \phi(2t) + \phi(2t-1)$ (b) $\psi(t) = \psi(2t) + \psi(2t-1)$ (c) $\psi(t) = \phi(2t) - \phi(2t-1)$ (d) $\sqrt{2}\phi(t) = \phi(2t) - \phi(2t-1)$	
	a b c d No, the answer is incorrect. Score: 0 Accepted Answers: c 6)	
	6. For a signal of length 256, coarsest approximation coefficients are obtained at The length of detail coefficients available at level P is 32. The value of $J-P$ Note : Assume that the signal is available at level P .	
	No, the answer is incorrect. Score: 0 Accepted Answers: (Type: String) 5	
		1 point
	7. A discrete time signal, $x[k]$ (available at level 0) is decomposed using a 'Haa The approximation and detail coefficients at level 1 are $[3\sqrt{2},2\sqrt{2},6\sqrt{2},3\sqrt{2}]$ $[-\sqrt{2},0,2\sqrt{2},-\sqrt{2}]$ respectively. The value of $\sum_{k=0}^N x[k]$, where N being the signal is	$\overline{2}$] and

No, the answer is incorrect. Score: 0

Accepted Answers:

(Type: String) 28

1 point

8. A continuous time signal, $x(t) = \frac{2}{t+1} + e^{-t}$, $0 \le t < 0.8$ is sampled at a frequency fHz starting at t=0. The approximation (reconstructed) of the signal at the coarse possible scale using a Haar wavelet is .. (Report the answer to one decimal pla

No, the answer is incorrect.



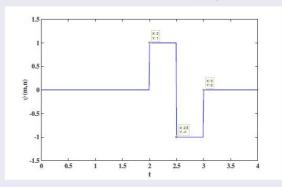
No, the answer is incorrect. Score: 0

Accepted Answers:
(Type: String) 2.2

9)

9. The function given below is a Haar wavelet function $\psi_{m,n}$ used for dyadic DW 1.5





Which of the following is an appropriate notation for the given function?

- (a) $\psi_{2,3}$
- (b) $\psi_{0,2}$
- (c) $\psi_{1,2}$
- (d) $\psi_{1,3}$
- 0 b
- 0 c \bigcirc d

No, the answer is incorrect.

Score: 0

Accepted Answers:

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