Mindluster Platform

About the course Data Analysis Signal Processing

Signal is the real pattern, the repeatable process that we hope to capture and describe. It is the information that we care about. The signal is what lets the model generalize to new situations .

Technology Category's Courses

Course Lesson(36)

Lesson 1 : **Course Introduction of 18 065 by Professor Strang**

Lesson 2 :
An Interview with Gilbert Strang on Teaching Matrix Methods in Data Analysis Signal Processing

Lesson 3 : **Lecture 1 The Column Space of A Contains All Vectors Ax**

Lesson 4 : **Lecture 2 Multiplying and Factoring Matrices**

Lesson 5 : **3 Orthonormal Columns in Q Give Q Q I**

Lesson 6 : **4 Eigenvalues and Eigenvectors**

Lesson 7 : **5 Positive Definite and Semidefinite Matrices**

Lesson 8 : **6 Singular Value Decomposition SVD**

Lesson 9 : **7 Eckart Young The Closest Rank k Matrix to A**

Lesson 10 : **Lecture 8 Norms of Vectors and Matrices**

Lesson 11 : **9 Four Ways to Solve Least Squares Problems**

Lesson 12 : **Lecture 10 Survey of Difficulties with Ax b**

Lesson 13 : **Lecture 11 Minimizing â€–xâ€– Subject to Ax b**

Lesson 14 : **12 Computing Eigenvalues and Singular Values**

Lesson 15 : **Lecture 13 Randomized Matrix Multiplication**

Lesson 16 : **14 Low Rank Changes in A and Its Inverse**

Lesson 17 : **15 Matrices A t Depending on t Derivative dA dt**

Lesson 18 : **16 Derivatives of Inverse and Singular Values**

Lesson 19 : **Lecture 17 Rapidly Decreasing Singular Values**

Lesson 20 : **Lecture 18 Counting Parameters in SVD LU QR Saddle Points**

Lesson 21 : **19 Saddle Points Continued Maxmin Principle**

Lesson 22 : **20 Definitions and Inequalities**

Lesson 23 : **Lecture 21 Minimizing a Function Step by Step**

Lesson 24 : **22 Gradient Descent Downhill to a Minimum**

Lesson 25 : **23 Accelerating Gradient Descent Use Momentum**

Lesson 26 : **24 Linear Programming and Two Person Games**

Lesson 27 : **25 Stochastic Gradient Descent**

Lesson 28 : **26 Structure of Neural Nets for Deep Learning**

Lesson 29 : **27 Backpropagation Find Partial Derivatives**

Lesson 30 : **Lecture 30 Completing a Rank One Matrix Circulants**

Lesson 31 : **31 Eigenvectors of Circulant Matrices Fourier Matrix**

Lesson 32 : **Lecture 32 ImageNet is a Convolutional Neural Network CNN The Convolution Rule**

Lesson 33 : **33 Neural Nets and the Learning Function**

Lesson 34 : **34 Distance Matrices Procrustes Problem**

Lesson 35 : **35 Finding Clusters in Graphs**

Lesson 36 : **Lecture 36 Alan Edelman and Julia Language**

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