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### A Mathematical Introduction To Compressive

With only moderate prerequisites, A Mathematical Introduction to Compressive Sensing is an excellent textbook for graduate courses in mathematics, engineering, and computer science. It also serves as a reliable resource for practitioners and researchers in these disciplines who want to acquire a careful understanding of the subject.

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A Mathematical Introduction to Compressive Sensing gives a detailed account of the core theory upon which the field is build. With only moderate prerequisites, it is an excellent textbook for graduate courses in mathematics, engineering, and computer science.

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Mathematically, the compressive sensing problem reduces to the problem of finding a sparse solution to an underdetermined linear system of equations  $Ax = y$ . Here the vector  $y$  gives the sampled measurements of the signal, the vector  $x$  represents the signal with respect to the sparse basis, and the matrix  $A$  describes how the signal is sampled.

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### A mathematical introduction to compressive sensing ...

A Mathematical Introduction to Compressive Sensing 1\$? Birkhäuser . Contents 1 An Invitation to Compressive Sensing 1 1.1 What is Compressive Sensing? 1 1.2 Applications, Motivations, and Extensions 8 1.3 Overview of the Book 23 Notes 33 2 Sparse Solutions of Underdetermined Systems 41

### A Mathematical Introduction to Compressive Sensing

S. Foucart and H. Rauhut, A Mathematical Introduction to Compressive Sensing(Springer, New York, 2013), pp. 1-589. CS has been an active field in the last decade, with many results in acoustics. A common topic is sparsity in different domains, e.g., time domain,9,109. N.

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### A mathematical introduction to compressive sensing (Book ...

A mathematical introduction to compressive sensing, by S. Foucart and H. Rauhut, Applied and Numerical Harmonic Analysis, Birkhäuser/Springer, New York, 2013, xviii+625pp., ISBN 978-0-8176-4948-7 A mathematical introduction to compressive sensing by Simon Foucart and Holger Rauhut [FR13] is about sparse solution to systems of random linear equations.

### Sparse solutions to random linear systems

A Mathematical Introduction to Compressive Sensing (Applied and Introduction Numerical Numerical Harmonic Analysis)  $\square \square$   
:1b1493900633w8:ZEROPARTNER  $\square \square \square \square \square \square \square \square$  (  $\square \square \square$  ) AP-8/62-6481-97

### A Mathematical Introduction to Compressive Sensing ...

This article studies the approximate recovery of low-rank matrices acquired through binary measurements. Two types of recovery algorithms are considered, one based on hard singular value thresholding and the other one based on semidefinite programming. In case no thresholds are introduced before binary quantization, it is first shown that the direction of the low-rank matrices can be well ...

### Recovering low-rank matrices from binary measurements

In this paper, the prediction of compressive cement strength using the fuzzy linear regression (FLR) and adaptive neuro-fuzzy inference system (ANFIS) methods was studied. Specifically, an accurate prediction method is needed as the modeling of cement strength is a difficult task, which is based on its composite nature. However, many approaches are widely implemented in strength-predicting ...

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