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Michael Elad works in the field of signal and image processing, specializing in

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Elad has authored hundreds of technical publications in leading venues, many of which have led to

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book "Sparse and Redundant Representations: From Theory to Applications in Signal and Image Processing", which is a leading publication in this field.

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About the Author
Michael Elad has been working at The Technion in Haifa, Israel, since 2003 and is currently an

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Associate Professor. He is one of the leaders in the field of sparse representations. He does prolific research in mathematical signal processing with more than 60 publications in top ranked journals.

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Computer Science at the Technion - Israel Institute of Technology. His work includes fundamental contributions in the field of sparse representations, and deployment of these ideas to algorithms and applications in signal processing, image processing and machine learning .

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Michal Aharon, Michael Elad, and Alfred Bruckstein Abstract—In recent years there has been a growing interest in the study of sparse representation of signals. Using an overcomplete dictionary that contains prototype signal-atoms, signals are described by sparse linear combinations of these atoms.

IEEE TRANSACTIONS

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research leading to
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Algorithm

Optimally sparse
representation in
general

(nonorthogonal)
dictionaries via l_1
minimization David L.
Donoho[†] and Michael
Elad[§] Departments of

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[§]Computer Science,
Stanford University,
Stanford, CA 94305

Contributed by David L.
Donoho, December 20,
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Sparse and Redundant
Representations is
intended for graduate
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electrical engineering,
as well as applied
mathematicians,
engineers, and
researchers who are
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Sparse representation
theory puts forward an
emerging, highly

effective, and universal

such model. Its core

idea is the description

of the data as a linear

combination of few

building blocks - atoms

- taken from a pre-

defined dictionary of

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Sparse And
Redundant
such fundamental
elements.

Representations

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Signal and Image
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We address the image
denoising problem,
where zero-mean white
and homogeneous
Gaussian additive
noise is to be removed
from a given image.
The approach taken is
based on sparse and
redundant

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representations over
trained dictionaries.
Using the K-SVD
algorithm, we obtain a
dictionary that
describes the image
content effectively.

**Image denoising via
sparse and
redundant
representations ...**

This book presents the
state of the art in
sparse and multiscale
image and signal
processing, covering

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linear multiscale transforms, such as wavelet, ridgelet, or curvelet transforms, and non-linear multiscale transforms based on the median and mathematical morphology operators. Recent concepts of sparsity and morphological diversity are ...

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It can improve the sampling efficiency by sampling sparse signals at a rate far lower than the Nyquist rate. Its core is to exploit measurement matrix to project an original high-dimensional sparse signal onto a lower-

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property, the original
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sparse signal can be
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