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Factorizations : An
algorithmic perspective
Abstract: A common
thread in various

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approaches for model reduction, clustering, feature extraction, classification, and blind source separation (BSS) is to represent the original data by a lower-dimensional approximation obtained via matrix or tensor (multiway array) factorizations or decompositions.

*NONNEGATIVE MATRIX
AND TENSOR
FACTORIZATIONS*

of a tensor representation via NTF can be more efficient than the compression of a matrix representation. Two different types of algorithms are commonly used for computing nonnegative matrix and tensor factorizations. The first, and more popular, approach is based on the multiplicative update rule [LS99].

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*Non-negative matrix
factorization -
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The increasing interest in nonnegative matrix and tensor factorizations, as well as decompositions and sparse representation of data, will ensure that this book is essential reading for engineers, scientists, researchers, industry practitioners and graduate students

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Nonnegative Matrix And Tensor Factorization

across signal and image processing; ...

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Particularly, nonnegative matrix and tensor factorizations, both of which incorporate nonnegative constraints, have proven to be successful in many applications [46].

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*ON TENSORS,
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(2015) Newton-based optimization for Kullback-Leibler nonnegative tensor factorizations.

Optimization Methods and Software 30 :5, 1002-1029. (2015) Clustering Boolean tensors.

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Factorizations:

Applications ...

Also early work on non-negative matrix

factorizations was performed by a Finnish group of researchers in the 1990s under the

name positive matrix factorization. [10] [11]

[12] It became more widely known as non-negative matrix

factorization after Lee and Seung investigated the properties of the

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Factorizations : An ...

Nonnegative matrix factorization (NMF) and its extensions such as Nonnegative Tensor Factorization (NTF) have become prominent techniques for blind sources

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separation (BSS),
analysis of image
databases, data mining
and other information
retrieval and clustering
applications.

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This book provides a
broad survey of models
and efficient
algorithms for
Nonnegative Matrix
Factorization (NMF).
This includes NMFs

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various extensions and
modifications,
especially Nonnegative
Tensor Factorizations

(NTF) and Nonnegative

Tucker Decompositions

(NTD). NMF/NTF and

their extensions are

increasingly used as

tools in signal and

image processing, and

data analysis, having
garnered ...

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Factorizations : An ...

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The increasing interest in nonnegative matrix and tensor factorizations, as well as decompositions and sparse representation of data, will ensure that this book is essential reading for engineers, scientists, researchers, industry practitioners and graduate students across signal and image processing; neuroscience; data mining and data

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Nonnegative Matrix And Tensor Factorizations: Applications To

analysis; computer science; bioinformatics; speech ...

Algorithms for Multiway Data Analysis And Blind Source Separation
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nonnegative matrix and tensor ...

Let X represent an N -way data tensor of size $I_1 \times I_2 \times \dots \times I_N$. We are interested in an R -component nonnegative

CANDECOMP/PARAFAC [8,21] factor model $M = \sum_{r=1}^R a^{(1)} a^{(2)} \dots a^{(N)}$;
(1.1) where $a^{(r)}$ represents

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Nonnegative Matrix And Tensor Factorizations for ...

This book provides a broad survey of models and efficient algorithms for

Nonnegative Matrix Factorization (NMF).

This includes NMF's various extensions and modifications,

especially Nonnegative Tensor Factorizations (NTF) and Nonnegative Tucker Decompositions (NTD). NMF/NTF and their extensions are increasingly used as

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Way Data Analysis

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Factorizations : An ...

Two di erent types of

algorithms are

commonly used for

computing

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factorizations. The rst,

and more popular,

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approach is based on the multiplicative update rule [LS99]. The method is simple to implement, but has been observed to converge slowly in practice.

Computing

nonnegative tensor factorizations

We review algorithms developed for nonnegative matrix factorization (NMF) and nonnegative tensor

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factorization (NTF)
from a unified view
based on the block
coordinate descent
(BCD) framework. NMF
and NTF are low-rank
approximation
methods for matrices
and tensors in which
the low-rank factors
are constrained to
have only nonnegative
elements.

*Computing
nonnegative tensor
factorizations*

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1. Introduction.
Nonnegative
matrix/tensor
factorization (NMF/NTF)
plays an important role
in feature extraction,
classification, blind
source separation

(BSS), denoising,
completion of missing
values, and clustering
of nonnegative signals
, , , , , , , , , , . The
standard NMF model is
given by (1) $Y \cong AX \in$
 $\mathbb{R}^+ \times \mathbb{R}^+$, where $A = [a$
 $1, a 2, \dots, a R] \in \mathbb{R}^+ \times \mathbb{R}^+$

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 $\times R, X \in R + R \times J \dots$
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