

Accepted Manuscript

Algorithms for the Construction of Incoherent Frames Under Various Design Constraints

Cristian Rusu, Nuria González-Prelcic, Robert W. Heath Jr.

PII: S0165-1684(18)30212-3
DOI: [10.1016/j.sigpro.2018.06.015](https://doi.org/10.1016/j.sigpro.2018.06.015)
Reference: SIGPRO 6852

To appear in: *Signal Processing*

Received date: 12 January 2018
Revised date: 14 June 2018
Accepted date: 15 June 2018

Please cite this article as: Cristian Rusu, Nuria González-Prelcic, Robert W. Heath Jr., Algorithms for the Construction of Incoherent Frames Under Various Design Constraints, *Signal Processing* (2018), doi: [10.1016/j.sigpro.2018.06.015](https://doi.org/10.1016/j.sigpro.2018.06.015)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Highlights

- Incoherent sets of vectors have many applications in signal processing: wireless communications, sparse representations etc.
- We propose optimization strategies to build sets of incoherent frames where the vector entries also obey additional constraints
- We construct sets of incoherent frames where the entries are sparse, unital and positive for both the real-valued and complex-valued cases
- We propose an optimization algorithm to select rows of unital matrices (like the Fourier and Hadamard) that are highly incoherent

Download English Version:

<https://daneshyari.com/en/article/6957238>

Download Persian Version:

<https://daneshyari.com/article/6957238>

[Daneshyari.com](https://daneshyari.com)