

Accepted Manuscript

On Uniqueness of Sparse Signal Recovery

Xiao-Li Hu, Jiajun Wen, Wai Keung Wong, Le Tong, Jinrong Cui

PII: S0165-1684(18)30128-2
DOI: [10.1016/j.sigpro.2018.04.002](https://doi.org/10.1016/j.sigpro.2018.04.002)
Reference: SIGPRO 6782

To appear in: *Signal Processing*

Received date: 7 December 2017
Revised date: 10 March 2018
Accepted date: 3 April 2018

Please cite this article as: Xiao-Li Hu, Jiajun Wen, Wai Keung Wong, Le Tong, Jinrong Cui, On Uniqueness of Sparse Signal Recovery, *Signal Processing* (2018), doi: [10.1016/j.sigpro.2018.04.002](https://doi.org/10.1016/j.sigpro.2018.04.002)



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

- The l_0 -norm-based condition is proposed for the uniqueness of sparse signal recovery.
- The l_1 -norm-based condition is proposed for the uniqueness of sparse signal recovery.
- The analysis of the l_1 -norm-based condition is given using the geometric explanation.
- The minimal uniqueness conditions for l_0 and l_1 -based frameworks are analyzed.
- The simulation verifies the effectiveness of the proposed conditions.

Download English Version:

<https://daneshyari.com/en/article/6957430>

Download Persian Version:

<https://daneshyari.com/article/6957430>

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