

relaxed-SDP for SSP

This package contains a MATLAB solver to track the lower bound of the Spherical Section Property (SSP) by means of a relaxed-SDP problem proposed in [1].

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[1] M. S. Hosseini, S. Fazeli-Dehkordy, and K. N. Plataniotis, "Tractable bound for spherical section property in the presence of side-information," *Signal Processing Letters, IEEE*, vol. 19, no. 8, pp. 519-522, August 2012.

--- Please see the following instruction to use M-files -----

You need to install the following solvers prior running "relaxed-SDP for SSP" code:

* YALMIP: available online at
<http://users.isy.liu.se/johanl/yalmip/>

* SDPNAL Solver: available online at
<http://www.math.nus.edu.sg/~mattohkc/SDPNAL.html>

Content:

'SSP_rSDP.m'	Proposed relaxed-SDP solver for SSP lower bound
'demo.m'	Simple example of random generated sensing matrix and calculating its unique sparsity rate using 'SSP_rSDP.m'