

# Compressive Sensing Reconstruction Algorithms Based On The Weighted Median Operator

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# Chapter 1

## File Index

### 1.1 File List

Here is a list of all files with brief descriptions:

headers/ <a href="#">functions.h</a>	
Function prototypes for implementing robust sparse signal recovery algorithms based on the weighted median operator . . . . .	3
simulations/ <a href="#">nmse_vs_snr_econtaminated.c</a> . . . . .	3
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## Chapter 2

# File Documentation

### 2.1 headers/functions.h File Reference

Function prototypes for implementing robust sparse signal recovery algorithms based on the weighted median operator.

```
#include <stdlib.h>
#include <stdio.h>
```

Include dependency graph for functions.h:

### 2.2 simulations/nmse\_vs\_snr\_econtaminated.c File Reference

```
#include <stdlib.h>
#include <stdio.h>
#include <time.h>
#include <math.h>
#include "../headers/functions.h"
```

Include dependency graph for nmse\_vs\_snr\_econtaminated.c:

#### Functions

- int [main](#) ()

#### 2.2.1 Function Documentation

##### 2.2.1.1 int main ( )

### 2.3 simulations/nmse\_vs\_snr\_gaussian.c File Reference

Simulation for plotting the Figure 2(a) of the paper.

```
#include <stdlib.h>
#include <stdio.h>
#include <time.h>
#include <math.h>
#include "../headers/functions.h"
```

Include dependency graph for nmse\_vs\_snr\_gaussian.c:

## Functions

- int [main](#) ()

### 2.3.1 Detailed Description

Simulation for plotting the Figure 2(a) of the paper.

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1.0

#### See also

<http://ieeexplore.ieee.org/abstract/document/5728937/>  
[https://www.researchgate.net/profile/Juan\\_Ramirez35/publication/265467333↵\\_Robust\\_Sparse\\_Signal\\_Recovery\\_Based\\_on\\_Weighted\\_Median\\_Operator/links/544088560cf21pdf](https://www.researchgate.net/profile/Juan_Ramirez35/publication/265467333/_Robust_Sparse_Signal_Recovery_Based_on_Weighted_Median_Operator/links/544088560cf21pdf)

### 2.3.2 Function Documentation

#### 2.3.2.1 int main ( )

## 2.4 simulations/rsnr\_vs\_snr\_implevel.c File Reference

```
#include <stdlib.h>
#include <stdio.h>
#include <time.h>
#include <math.h>
#include "../headers/functions.h"
Include dependency graph for rsnr_vs_snr_implevel.c:
```

## Functions

- int [main](#) ()

### 2.4.1 Function Documentation

#### 2.4.1.1 int main ( )



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