**Code Guide**

**The code is for the paper:** LN-MSER: SAR Image Registration using Low Noise MSER Noise (**Under submission for** [IEEE Geoscience and Remote Sensing Magazine **journal**](https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=6245518)**)**

If you have used the code you must cite the above paper.

Code Language: MATLAB 2018b

Date of code: 2021/10/02

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Our database folder name: Pourfard SAR database test

Code address: <https://github.com/Pourfardm/SAR-image-registration-LNMSER>

**How to run the code?**

Our SAR database image is in the folder “Our SAR database test”

The final code is: **panorama\_SAR\_LN\_MSER\_imhisteq.m**. This code concatenates all the pictures which are put in one specified folder.

If you want to show the Figure 1 of the manuscript run the code: **diffusion\_filtering.m**

If you want to show the Figure 2 of the manuscript run the code: **show\_MSER\_in\_stages.m** and **surf\_MSER.m**

If you want to compare the methods based on precision, recall, true positive, and F-measure choose the code (Table I of manuscript): **panorama\_SAR\_LN\_MSER\_compare\_methods.m**

To run all the above code please change the directory of imread() To the place of database in your computer.

**For example:**

imread('C:\Users\HP\Pictures\Database Images\Our SAR database test\test12\s2\_1.tif')