

Looking for an algorithm – image analysis

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Hi everyone,

I'm new here and am not a mathematician (medical student...) yet I have a question.

Suppose I have a lot of 2D images of a human organ in various states.

And I know black corresponds with high blood flow to an area.

An area in the organ consists of a list of pixels which are adjacent.

What I want to do is to obtain a measure of the blood flow in different areas.

It should consist of a single value.

My needs are:

1. The algorithm should be sensitive to small bursts.
2. Can be implemented in MATLAB.

Calculating the mean value for an area doesn't work well – large areas tend to reduce small bursts.

Calculating the max is too sensitive.

Thanks for any help,

Yaron