ModulusImageFilter

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Abstract: ModulusImageFilter is a simple image filter to compute the modulus (x % dividend) pixel-wise.

Keywords: Modulus UnaryFunctorImageFilter

1 Description

ModulusImageFilter is a simple image filter to compute the modulus (x % dividend) pixel-wise.

2 Implementation

ModulusImageFilter is based on UnaryFunctorImageFilter and use the c++ modulus operator (%).

3 Usage

As usual, user has to include the header:

```
#include "itkModulusImageFilter.h"
```

and declare the type, instanciate the filter, and set the input image

```
typedef itk::ModulusImageFilter< InputType, OuputType >
  ModulusType;
ModulusType::Pointer modulus = ModulusType::New();
modulus->SetInput( filter->GetOutput() );
```

The dividend can be set with the SetDividend() method, and read with GetDividend(). The default value is 5.

```
modulus->SetDividend( 8 );
```

4 Example

ModulusImageFilter is used here to highlight the level curves of the image produced by the DanielssonDistanceMapImageFilter filter.

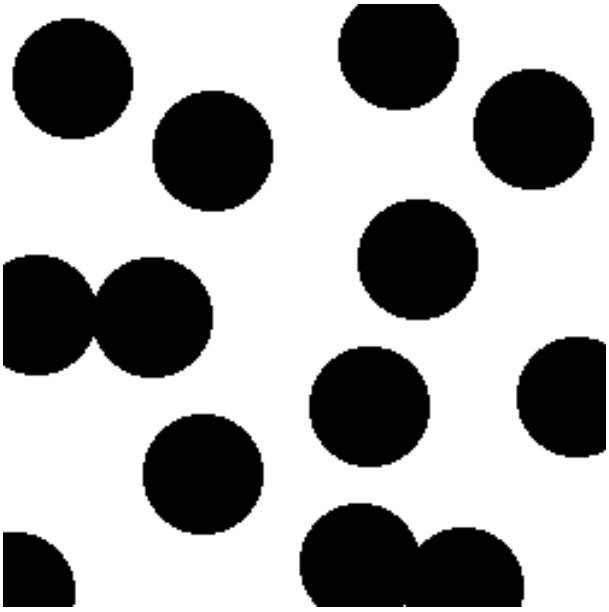

Fig. 1 The input image.

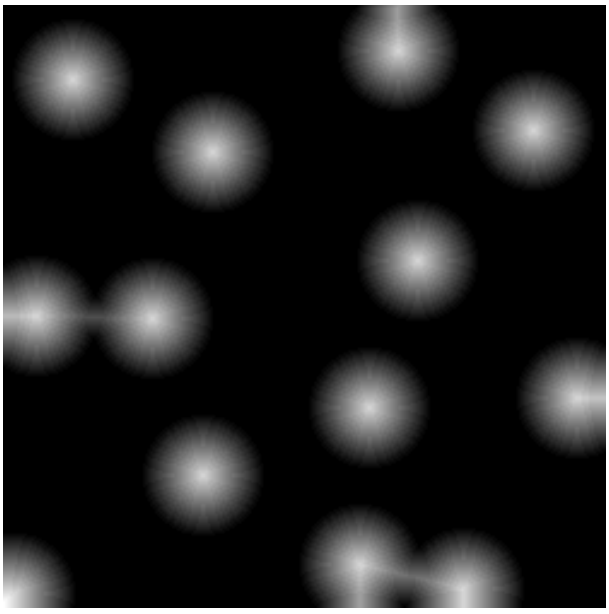

Fig. 2 The (rescaled) distance map image.

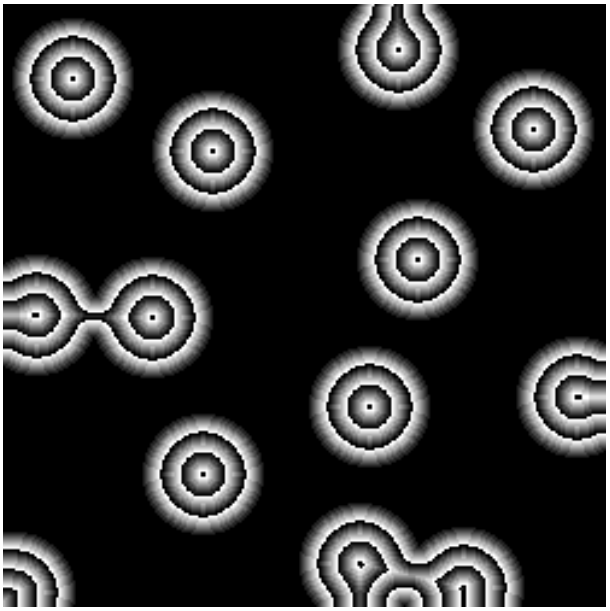

Fig. 3 The (rescaled) output image.