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Differential Equations Image Processing  
Neural Networks, Machine Learning, and Image  
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Vision and Learning Based on Optimization and  
PDEs Stochastic Partial Differential  
Equations for Computer Vision with Uncertain  
Data Oscillating Patterns in Image Processing  
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and Variational Methods in Computer Vision  
Numerical Geometry of Images Mathematical  
Methods in Computer Vision Processing,  
Analyzing and Learning of Images, Shapes, and  
Forms:

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image processing|histogram equalization  
problems* Erosion and Dilation in Image  
Processing | morphological operations in  
image processing ~~Smoothing Process Over an  
Image Using Average~~

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Discrete Mathematics | Digital Image  
Processing ~~DLS: Image Processing and  
Computational Mathematics~~ *dilation and  
erosion in image processing #15* ~~DIP Lecture  
13: Morphological image processing~~ AKTU  
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Equalization 'Seeing More in Images: A  
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discretize them. For the mathematical  
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Recovering an image from a noisy and blurry

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image is an inverse problem which is possible to be solved via variational methods, using total variation regularization, e.g., cf. [21,7,8, 1,...

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Mathematics in image processing Mathematics in image processing , CV etc. My subjective importance Linear algebra 70% Numerical mathematics – mainly optimization 60% Analysis (including convex analysis and variational calculus) 50% Statistics and probability – basics + machine learning 30%

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Graph theory (mainly graph algorithms) 15%

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function  $y = g(r)$  which goes from  $p_r(r) = 2$   
 $-2r$  and a flat pixel distribution  $p_y(y) =$   
constant. From the theory of histogram  
equalisation the required transfer  
transformation function

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Processing – Partial Differential Equations  
and the Calculus of Variations, Springer,  
2006 2 T.F. Chan, J. Shen, Image Processing



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mathematical and engineering problems  
connected with image processing in general

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and medical imaging in particular. These include image smoothing, registration, and segmentation (see Sections 5.1, 5.2, and 5.3). We show how geometric partial differential equations and variational methods may be used to address some of these