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Most of the image
processing tasks can be
formulated as
optimization problems,
i.e., minimization of
functionals Calculus of
Variations solves min.
 $u. F(u(x));$ where $u \in X,$
 $F : X \rightarrow \mathbb{R}, X \dots$ Banach
space solution by

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nonlocal variational
scheme for image

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denoising. This scheme is motivated by, but different from the nonlocal means filter of Buades et al [9] and the nonlocal TV model proposed by Gilboa-Osher by using nonlocal operators. Our approach is based on general geometric considerations. Experiments show that the corresponding TV model yields denoising results that can compare

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A new nonlocal variational setting for image processing

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This book constitutes the proceedings of the 7th International Conference on Scale Space and Variational Methods in Computer Vision, SSVM 2019, held in Hofgeismar, Germany, in June/July 2019. The 44

**Scale Space and
Variational Methods**

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Variational methods. The goal of variational methods is to find a segmentation which is optimal with respect to a specific energy functional. The functionals consist of a data fitting term and a regularizing terms. A classical representative is the Potts model defined for an image by

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Image segmentation

- Wikipedia

Y. Meyer, Oscillating

Patterns in Image

Processing and

Nonlinear Evolution

Equations, AMS 2001.

J.-M. Morel and S.

Solimini, Variational

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Segmentation: With

Seven Image

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Experiments (Progress

in Nonlinear

Differential Equations

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Birkhauser 1994.

**Math 285J, Section
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We investigate a well-known phenomenon of variational approaches in image processing, where typically the best image quality is achieved when the gradient flow process is stopped before converging to a stationary point. This

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paradox originates
from a tradeoff
between optimization
and modelling errors of
the underlying
variational model and
holds true even if deep
learning methods are
used to learn highly
expressive regularizers
from data.

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are two typical image enhancement methods. KVR method is a variational model based on Retinex theory to improve the illumination of the image. The UDCP and WCID methods are designed based on the same underwater image formation model as well as our method.

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This requires some basic knowledge on both of variational methods for image processing and deep learning in computer vision. Therefore, the course mainly consists of the following four components: (1). Popular variational models for image restoration, reconstruction and segmentation/partition;

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Yunmei Chen

Conditional Variational
Image Deraining And

Abstract: Image
deraining is an
important yet

challenging image
processing task.

Though deterministic
image deraining
methods are developed
with encouraging
performance, they are
infeasible to learn
flexible representations

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recent research of the
authors on the
application of
variational methods
with higher-order
derivatives in image
processing. We focus
on gray-valued and

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