

NUMERICAL ANALYSIS AND SCIENTIFIC COMPUTING
SEMINAR

Convolution neural networks for semantic segmentation

Eldad Haber
UBC

Abstract: In this talk we will introduce convolution neural networks and discuss their computational properties. Such networks are commonly used for image classification and only recently have been applied for segmentation. Unlike image classification, where the whole image is labeled with a single number, segmentation is a much more challenging task because each pixel needs to be labeled. In this talk we will discuss the challenges in semantic segmentation and introduce new architectures that are motivated by implicit methods in partial differential equations.

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MATHEMATICS
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