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CUDA Convolution - evl  
The mathematical concepts of  
convolution and the kernel  
matrix are used to apply  
filters to signals, to



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perform functions such as  
extracting edges and  
reducing unwanted noise.

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eters/FLOPs. In our proposed

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convolution, the convolution operation is heterogeneous due to the presence of different types of kernels in each ?lter. 2.2. Model Compression Another popular approach to increase the ef?ciency of CNN is model

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compression. These can be  
categorised as: 1-  
Connection Pruning [6,43],  
2- Filter Pruning [23,3,

DOSIS: An integrated  
computational tool for  
patient ...

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For frame synthesis, two 2D convolution kernels are required to generate an output pixel. Our approach approximates each of these with a pair of 1D kernels, one horizontal and one vertical. In this way, an  $n$

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× n convolution kernel can be encoded using only  $2n$  variables.

Video Frame Interpolation  
via Adaptive Convolution  
Step 0: the most Naive  
approach. Our convolution

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kernel size is radius 8  
(total 17x17 multiplication  
for single pixel value). In  
image border area, reference  
value will be set to 0  
during computation. This  
naive approach includes many  
of conditional statements

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and this causes very slow execution.

Kernel (image processing) -  
Wikipedia  
In fact, standard  
convolution kernels work in  
a regular receptive field for

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feature response, and the convolution weights are fixed at specific positions within the convolution window. This kind of position-determined weights results in the isotropy of the convolution kernel about the



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fea-ture attributes of  
neighboring points.

A Kernel-Based Approach for  
User-Guided Fiber Bundling

...

A process convolution with  
kernel function  $h(\cdot, \cdot)$ ,

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as in (1), represents a smoothing of the process  $\delta_B(\cdot)$ , and the kernel is therefore often referred to as a smoother.

Applications of Convolution  
in Image Processing with

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MATLAB

This work is focused on comparing 3D dose distributions obtained by DOSIS performing full stochastic Monte Carlo simulations versus analogue distributions obtained with

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analytical approaches like  
dose point kernel  
convolution and local energy  
deposition, when considering  
non-homogeneous activity or  
density distributions at  
different scales.

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A convolution particle  
filtering approach for  
tracking ...

June 2007 Introduction. The  
whitepaper of the  
convolutionSeparable CUDA  
SDK sample introduces  
convolution and shows how

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separable convolution of a 2D data array can be efficiently implemented using the CUDA programming model. However, the approach doesn't extend very well to general 2D convolution kernels.

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Convolution - Wikipedia

Convolution is the process of adding each element of the image to its local neighbors, weighted by the kernel. This is related to a form of mathematical

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convolution. The matrix operation being performed—convolution—is not traditional matrix multiplication, despite being similarly denoted by "\*" .



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Convolution Filter - an  
overview | ScienceDirect  
Topics  
referred to as contrastive  
convolution, whose kernels  
are carefully designed and  
mainly focus on those  
distinct characteristics,

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i.e., contrastive features,  
between the two faces for  
better verification of them.

A Convolution Kernel  
Approach To  
Advanced approach of

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convolution. In the previous description, it is said that convolution is to multiply a sliding matrix (the kernel or filter) with an input matrix image. Although this explanation is widespread in the Deep Learning community, the

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actual explanation is  
slightly different but not  
much more complex.

HetConv: Heterogeneous  
Kernel-Based Convolutions  
for Deep CNNs  
Instead of simply creating

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textures of random values  
and stretching them to  
create filtered octaves  
using built-in texture  
filtering, the octave images  
can be created using a  
convolution approach. A  
convolution filter can apply

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the appropriate filtering to each random value as needed. Filter kernels that cover a larger area can be used to create lower-frequency octaves.

Graph Attention Convolution

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for Point Cloud Semantic ...

A straightforward approach is to obtain responses by doing a fiber convolution on  $R$  such that  $f = R$ . A fiber passes through a given ROI with value  $r$ , if the response along the filter

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after the convolution  
process yields a value equal  
to  $r$  .

Introducing Convolutional  
Neural Networks in Deep  
Learning

Each pseudo-coordinate is



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put through a weighting function, which replicates the effect of a traditional image convolution kernel whereby each value of the kernel is multiplied by the value that is currently in consideration. In the case

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of MoNet, the weighting function is a kernel with learnable parameters that operates on the pseudo-coordinates:

Process convolution approaches for modeling

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The fact that the sum of two kernels results in a kernel (i.e. the kernel matrix is positive semi-definite (PSD)) makes this approach very powerful, as we can use it in kernel-based methods

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such as SVMs (e.g. for classification).

FFT-based 2D convolution -  
Nvidia

formulation of pixel  
interpolation as convolution  
has a few advantages. First

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of all, the combination of motion estimation and pixel synthesis into a single step provides a more robust solution than the two-step procedure. Second, the convolution kernel provides flexibility to account for

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and address difficult cases  
like occlusion. For example,  
opti-

Process convolution  
approaches for modeling  
interacting ...

A convolution kernel is

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proposed to estimate the multi-object likelihood. A target birth/death model based on the proposed method is also introduced for automatic initiation and deletion of the ...

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Video Frame Interpolation  
via Adaptive Separable  
Convolution

A new approach has been  
developed by combining the K-  
mean clustering (KMC) method  
and a modified convolution  
kernel compensation (CKC)



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method for multichannel  
surface electromyogram (EMG)  
decomposition.

Graph Convolutional Networks  
for Geometric Deep Learning  
A process convolution with  
kernel function  $\mathcal{K}(x, y)$ , as in

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(1), represents a smoothing of the process  $dB(?)$ , and the kernel is therefore often referred to as a smoother. In what follows, we refer to  $?$  as both a kernel function and a smoother, interchangeably.

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Face

Recognition with Contrastive  
Convolution

In kernel density  
estimation, a distribution  
is estimated from sample  
points by convolution with a

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kernel, such as an isotropic Gaussian. ( Diggle 1995 ).  
In radiotherapy treatment planning systems, most part of all modern codes of calculation applies a convolution-superposition algorithm .

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