Feature Learning Using Dilated Convolutions

Results and Remaining Problems

<table>
<thead>
<tr>
<th>Arch</th>
<th>Layers</th>
<th>Feature Maps</th>
<th>RFS</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>5</td>
<td>9</td>
<td>32 32 32 64</td>
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</tr>
</tbody>
</table>

For $i = 1$ to #dilations do
- Dilated Convolution with dilations[$i$]
- if $i < #dilations$ then
  - Batch Normalization, ReLU
- else
  - stride = dilations[$i$ + 1]

Dilated Convolution

Siamese Networks

Similarity Score

Dot Product

Normalization

Convolution

Convolution, ReLU

First Patch

Second Patch

Deep Discrete Flow

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