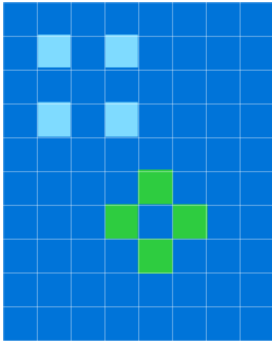
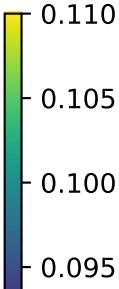
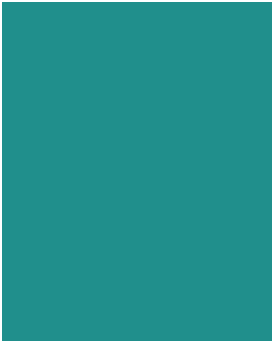


CNN Feature Analysis: Grid 10×8

Original Input



One-Hot Embedding
10 channels



Grid Size: 10×8 | CNN: 3 conv layers | Hidden Dim: 128

Layer Statistics:

EMBED: Ch=10, Size=(10, 8), Mean=0.100±0.267, Range=[0.00,1.00]
Diversity=0.1850, Sparsity=0.900, Entropy=0.70

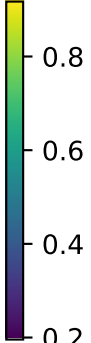
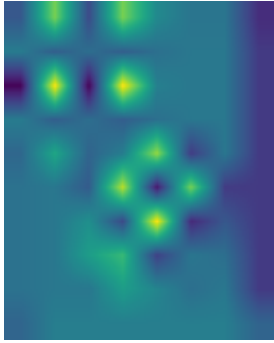
CONV1: Ch=32, Size=(10, 8), Mean=0.478±0.565, Range=[0.00,6.76]
Diversity=0.4197, Sparsity=0.654, Entropy=2.14

CONV2: Ch=32, Size=(10, 8), Mean=0.251±0.304, Range=[0.00,4.09]
Diversity=0.5149, Sparsity=0.707, Entropy=2.47

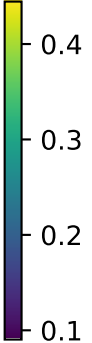
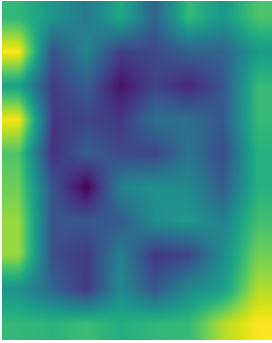
CONV3: Ch=32, Size=(10, 8), Mean=0.283±0.314, Range=[0.00,2.61]
Diversity=0.2582, Sparsity=0.495, Entropy=3.20

SPATIAL_FEATURES: Ch=32, Size=(10, 8), Mean=0.283±0.314, Range=[0.00,2.61]
Diversity=0.2582, Sparsity=0.495, Entropy=3.20

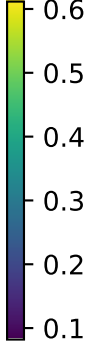
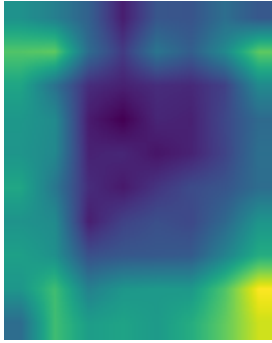
CONV1 Average
1 channels



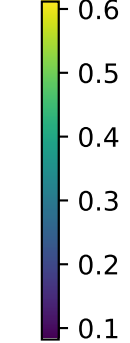
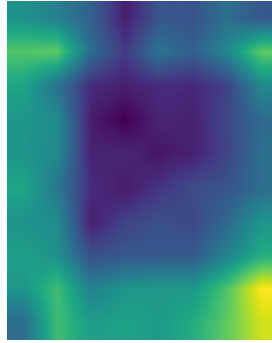
CONV2 Average
1 channels



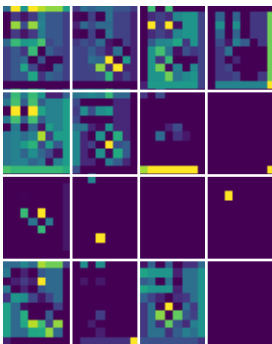
CONV3 Average
1 channels



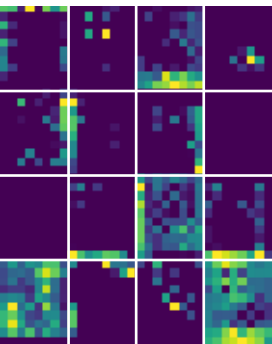
Spatial Features (avg)
→ Input to Slot Attention



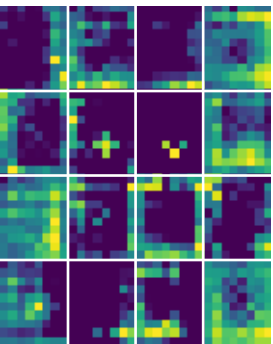
Feature Channels (showing 16/32)



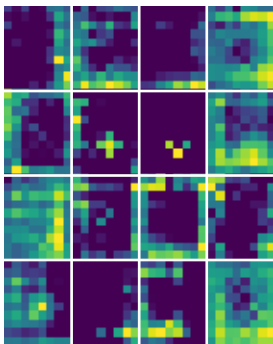
Feature Channels (showing 16/32)



Feature Channels (showing 16/32)



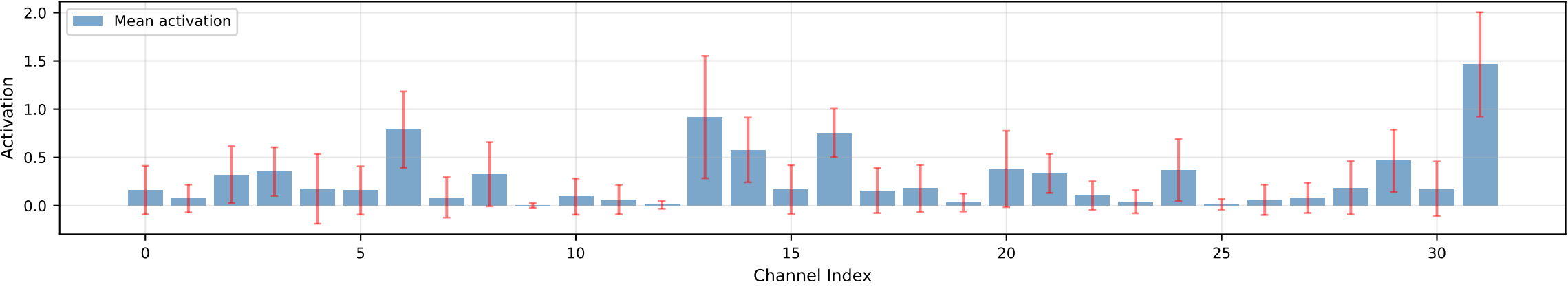
Feature Channels (showing 16/32)



DIAGNOSIS SUMMARY:

GOOD SPARSITY
GOOD ENTROPY

Spatial Feature Channel Activations (mean ± std)



Spatial Location Similarity
(sample of 50 locations)

