



DEEP  
LEARNING  
INSTITUTE

# MEDICAL IMAGE SEGMENTATION WITH DIGITS

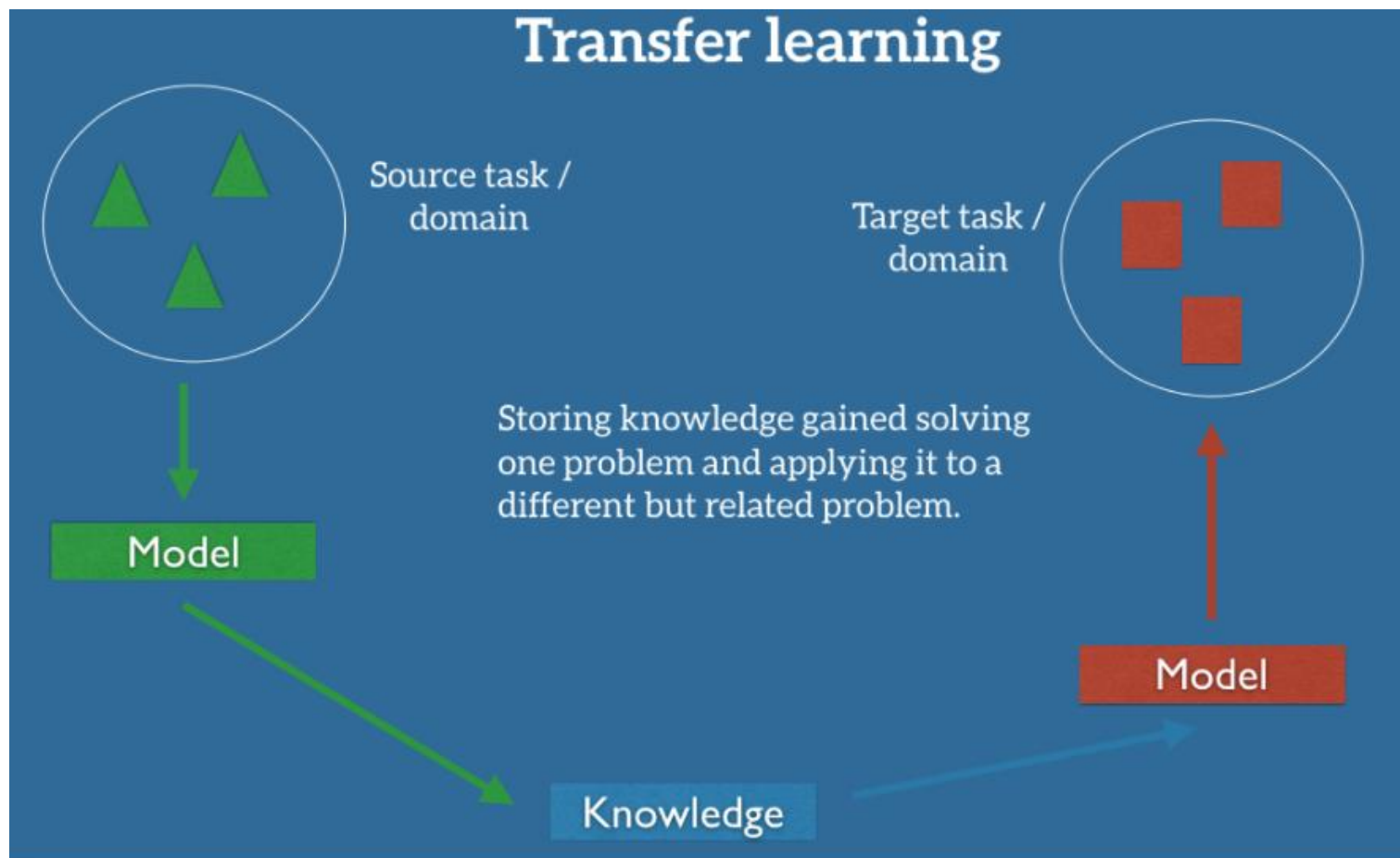
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**Younggon Kim**  
External Instructor

**USE**

**TRANSFER LEARNING**

# TRANSFER LEARNING



# TRANSFER LEARNING



# TRANSFER LEARNING

**Do we have to select  
transfer learning?**

# TRANSFER LEARNING



# TRANSFER LEARNING



# TRANSFER LEARNING







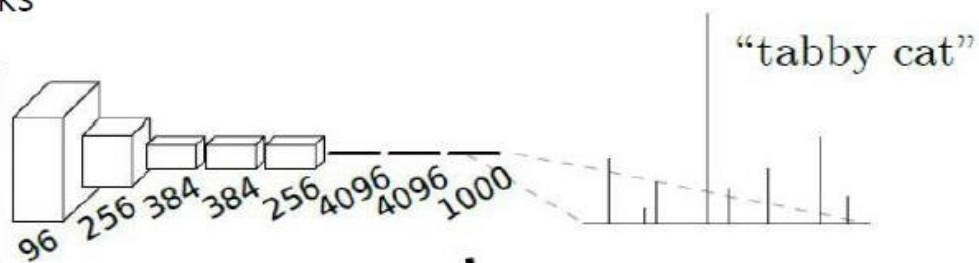
# TRANSFER LEARNING



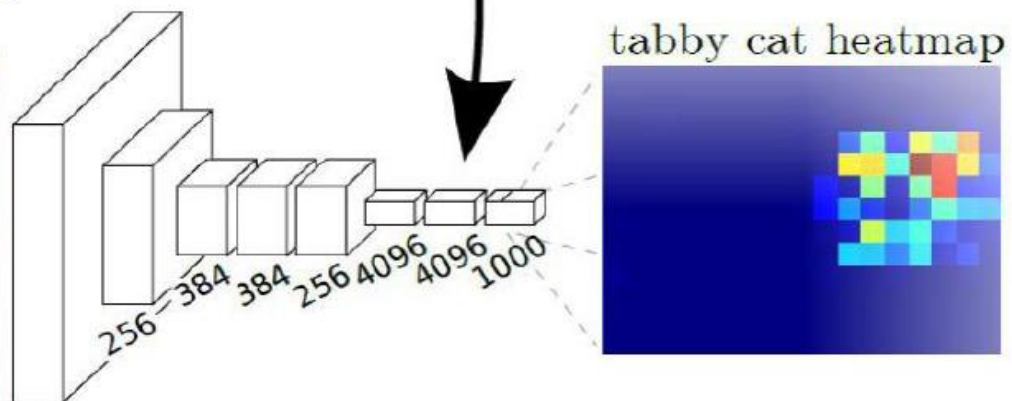
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# Fully Convolutional Network

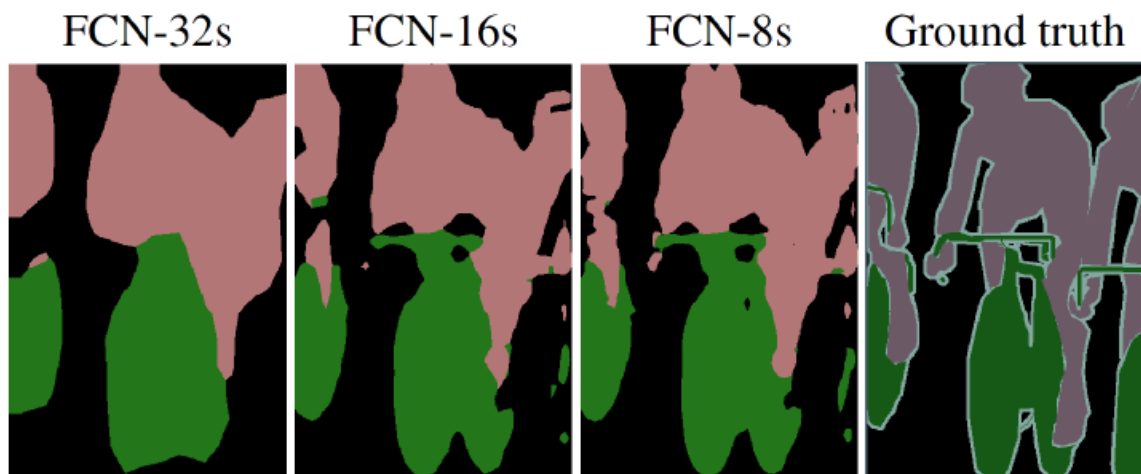
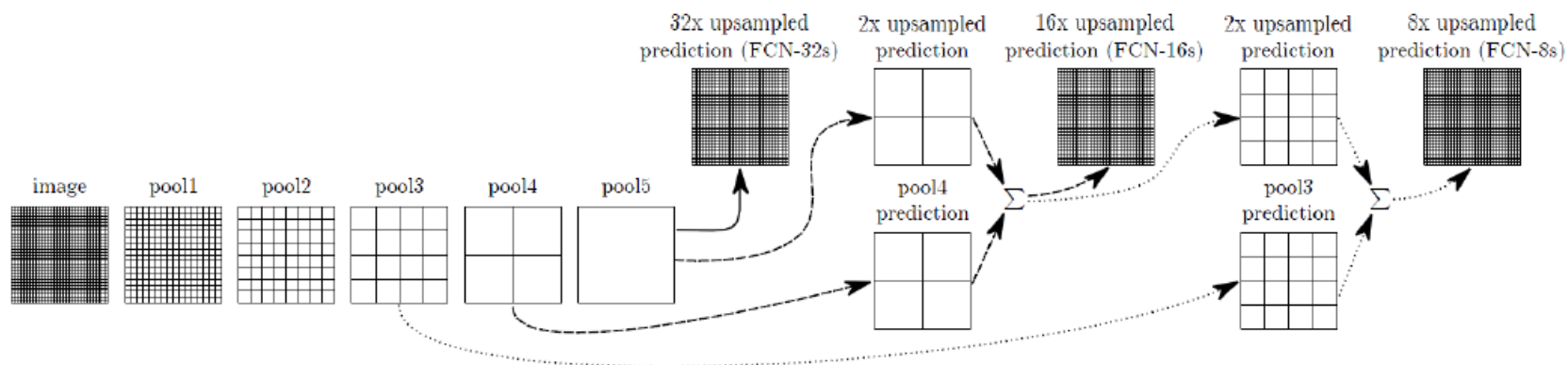
Usual convolutional networks



Fully convolutional networks



# Fully Convolutional Network



	pixel acc.	mean acc.	mean IU	f.w. IU
FCN-32s-fixed	83.0	59.7	45.4	72.0
FCN-32s	89.1	73.3	59.4	81.4
FCN-16s	90.0	75.7	62.4	83.0
FCN-8s	<b>90.3</b>	<b>75.9</b>	<b>62.7</b>	<b>83.2</b>

