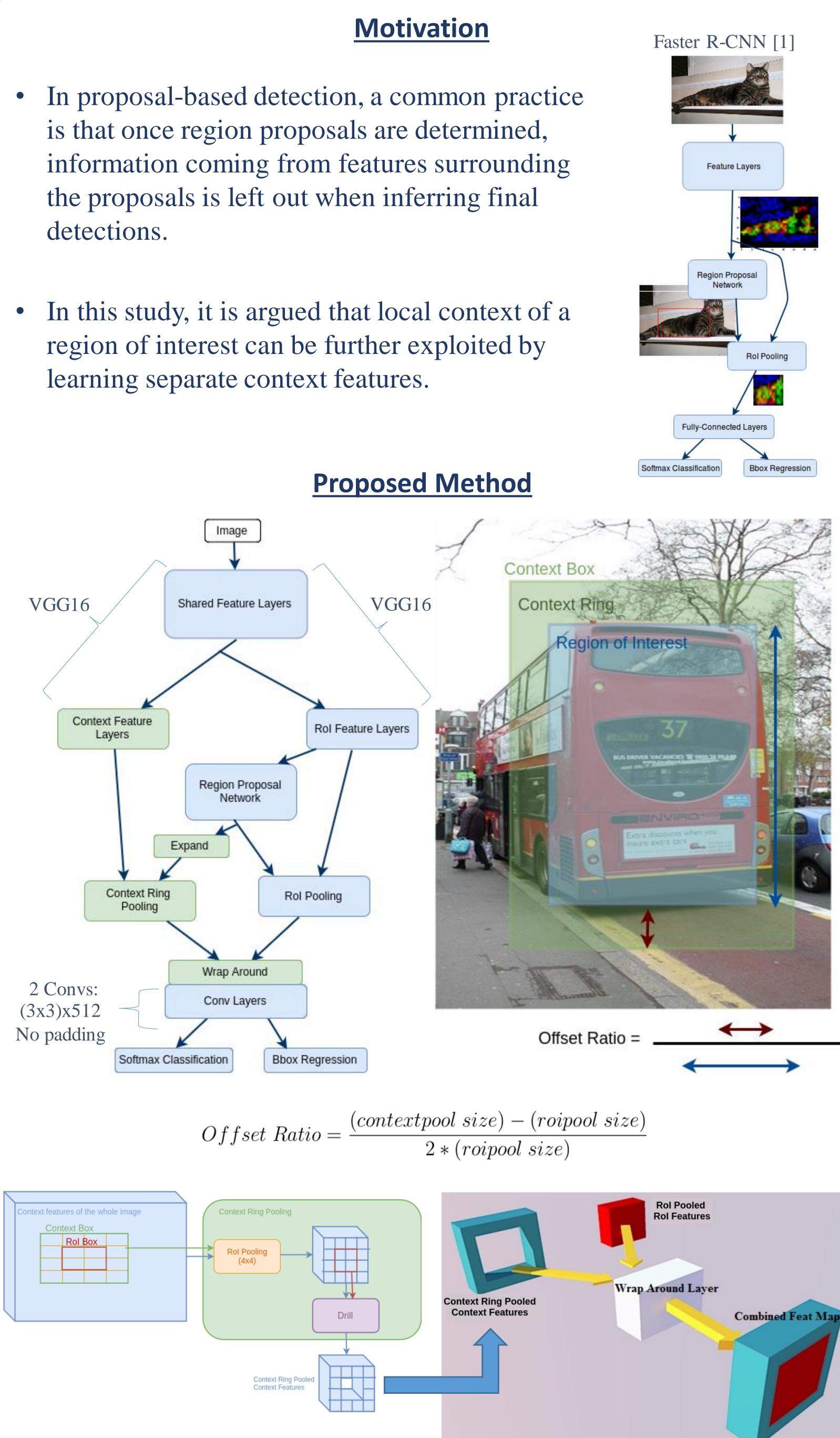


- is that once region proposals are determined, information coming from features surrounding the proposals is left out when inferring final detections.
- region of interest can be further exploited by learning separate context features.

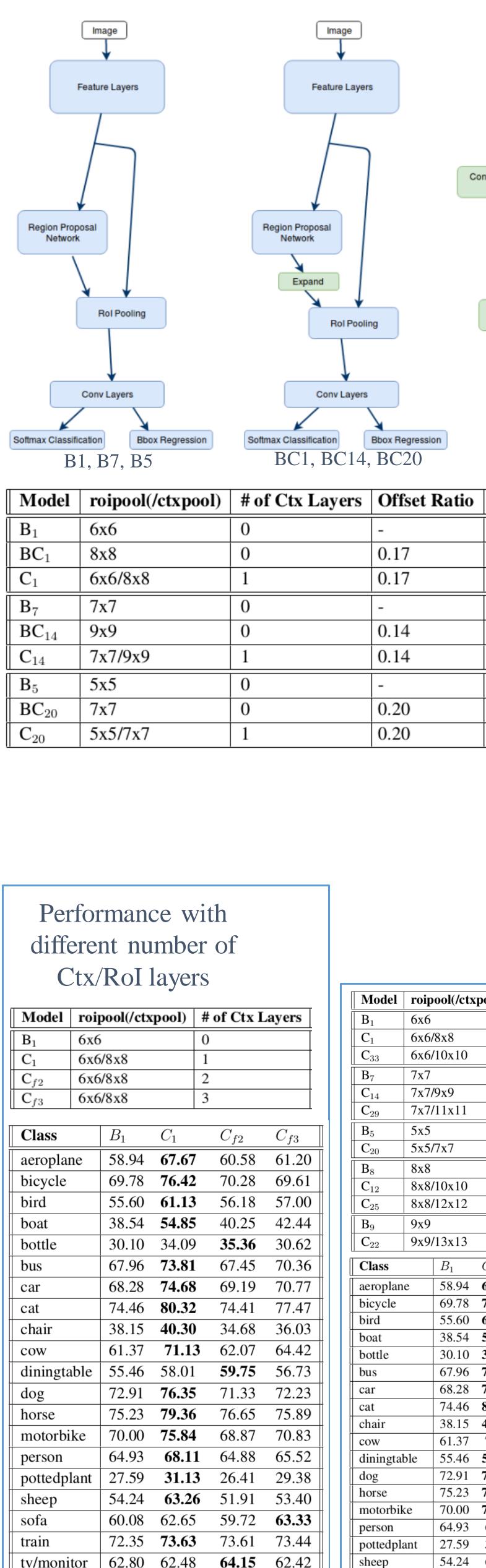


Improving Proposal-Based Object Detection Using Convolutional Context Features

Emre Can Kaya

Experimental Work

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tv/monitor

mean

58.94 **64.35** 59.24 60.18

Model	odel roipool(/ctxpool)			# o
B ₁	6x6			0
C_1	6x6/8x8			1
C ₃₃	6x6/10x10			1
B ₇	7x7			0
C ₁₄	7x7/9x9			1
C_{29}	7x7/11x11			1
\mathbf{B}_5	5x5			0
C ₂₀	5x5/7x7			1
B ₈	8x8			0
C ₁₂	8x8/10x10			1
C ₂₅	8x8/	/12x12		1
B ₉	9x9			0
C ₂₂		/13x13		1
Class		B_1	C_1	(
aeroplane		-	67.67	
bicycle		69.78		
bird		55.60	61.13	4
boat		38.54		
bottle		30.10		
bus		67.96	73.81	(
car		68.28	74.68	(
cat		74.46	80.32	
chair		38.15	40.30	2
cow		61.37	71.13	6 (
diningtable		55.46	59.75	4
dog		72.91	76.35	
horse		75.23	79.36	
motorbike		70.00	75.84	(
person		64.93	68.11	
pottedplant		27.59	31.13	
sheep		54.24	63.26	
sofa		60.08		(
train		72.35		
tv/monitor		62.80		(
mean		58.94	64.35	
Offset Ratio		-	0.17	(

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