Few-Shot Experiments (1)

Ominglot: Contains 1,623 characters from 50 alphabets each class with 20 samples.

Model	Fine Tune	5-way Acc.		20-way Acc.	
		1-shot	5-shot	1-shot	5-shot
MANN [32]	N	82.8%	94.9%	-	-
CONVOLUTIONAL SIAMESE NETS [20]	N	96.7%	98.4%	88.0%	96.5%
CONVOLUTIONAL SIAMESE NETS [20]	Y	97.3%	98.4%	88.1%	97.0%
MATCHING NETS [39]	N	98.1%	98.9%	93.8%	98.5%
MATCHING NETS [39]	Y	97.9%	98.7%	93.5%	98.7%
SIAMESE NETS WITH MEMORY [18]	N	98.4%	99.6%	95.0%	98.6%
NEURAL STATISTICIAN [8]	N	98.1%	99.5%	93.2%	98.1%
META NETS [27]	N	99.0%	-	97.0%	-
PROTOTYPICAL NETS [36]	N	98.8%	99.7%	96.0%	98.9%
MAML [10]	Y	$98.7 \pm 0.4\%$	$\mathbf{99.9 \pm 0.1\%}$	$95.8 \pm 0.3\%$	$98.9 \pm 0.2\%$
RELATION NET	N	$\mathbf{99.6 \pm 0.2\%}$	$\mathbf{99.8 \pm 0.1\%}$	$\mathbf{97.6 \pm 0.2\%}$	$\mathbf{99.1 \pm 0.1\%}$

Table 1: Omniglot few-shot classification. Results are accuracies averaged over 1000 test episodes and with 95% confidence intervals where reported. The best-performing method is highlighted, along with others whose confidence intervals overlap. '-': not reported.

Few-Shot Experiments (2)

miniImageNet: 100 classes with 600 color images per classes.

Model	FT	5-way Acc.	
		1-shot	5-shot
MATCHING NETS [39]	N	$43.56 \pm 0.84\%$	$55.31 \pm 0.73\%$
META NETS [27]	N	$49.21 \pm 0.96\%$	-
META-LEARN LSTM [29]	N	$43.44 \pm 0.77\%$	$60.60 \pm 0.71\%$
MAML [10]	Y	$48.70 \pm 1.84\%$	$63.11 \pm 0.92\%$
PROTOTYPICAL NETS [36]	N	$49.42 \pm 0.78\%$	$\mathbf{68.20 \pm 0.66\%}$
RELATION NET	N	$\mathbf{50.44 \pm 0.82\%}$	$65.32 \pm 0.70\%$

Table 2: Few-shot classification accuracies on miniImagenet