

Comments and Corrections

Corrections to “Learning to Learn Adaptive Classifier–Predictor for Few-Shot Learning”

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IN THE above article [1], the results of “Fully-supervised (Upper bound)” in Tables III and IV were inadvertently set to intermediate records that were used as placeholders. This error has no effect on any of the interpretations and conclusions. Tables I and II of this amendment show the corrected results (highlighted in italics) of the original Tables III and IV.

In addition, “update the direction of parameters” in the first paragraph of Section II-D should be “the updating direction of parameters”; “such as [27] and [43]” in the second paragraph of Section III-C should be “similar to [27] and [43]”; and “such as MAML [19]” in the first paragraph of Section III-D should be “similar to MAML [19].”

The authors would like to apologize for any confusion that these errors might have caused.

TABLE I

COMPARISON WITH THE STATE OF THE ARTS ON MINIIAMNET. ALL ACCURACY RESULTS ARE AVERAGED OVER 600 TEST EPISODES. “-” MEANS NOT REPORTED. “_” MEANS BASELINE AND BOLD MEANS BEST. †: USING ALSO THE VALIDATION SET FOR TRAINING

Method	Encoder	1-shot	5-shot
<i>Fully-supervised (Upper bound)</i>		<i>89.51%</i>	<i>89.51%</i>
MatchingNetwork [16]		43.56%	55.31%
Meta-LSTM [21]		43.44%	60.60%
MAML [19]		48.70%	63.11%
Meta-SGD [42]		50.50%	64.00%
PrototypicalNetwork [17]	ConvNet4	49.42%	68.20%
RelationNetwork [18]		50.44%	65.32%
GraphNetwork [54]		50.33%	66.41%
[43]		<u>54.54%</u>	<u>67.87%</u>
PSN [55]		-	66.62%
[52]		59.00%	70.90%
MPM(Ours)		57.59%	74.02%
SNAIL [53]		55.71%	68.88%
[27]		56.20%	73.00%
TADAM [24]	ResNet12	58.50%	76.70%
MetaTransfer [7]		61.20%	75.50%
[8]		61.23%	77.69%
MPM(Ours)		62.19%	78.51%
[43]		<u>59.60%</u>	<u>73.74%</u>
LEO [22]†	WRN-28-10	61.76%	77.59%
[23]		61.07%	76.75%
MPM(Ours)		61.77%	78.03%

TABLE II

COMPARISON WITH STATE OF THE ARTS ON TIEREDIMAGE.NET. ALL ACCURACY RESULTS ARE AVERAGED OVER 600 TEST EPISODES. “-” MEANS NOT REPORTED. “_” MEANS BASELINE AND BOLD MEANS BEST. †: USING ALSO THE VALIDATION SET FOR TRAINING

Method	Encoder	1-shot	5-shot
<i>Fully-supervised (Upper bound)</i>		<i>91.80%</i>	<i>91.80%</i>
MAML [19]		51.67%	70.30%
PrototypicalNetwork [17]	ConvNet4	53.31%	72.69%
RelationNetwork [18]		54.48%	71.32%
PSN [55]		-	71.13%
[43]		<u>56.94%</u>	<u>73.32%</u>
MPM(Ours)		59.44%	76.59%
LEO [22]†	WRN-28-10	66.33%	81.44%
[42](reported by [22])		62.95%	79.34%
[23]		68.18%	83.09%
MPM(Ours)		67.58%	83.93%

REFERENCES

- [1] N. Lai, M. Kan, C. Han, X. Song, and S. Shan, “Learning to learn adaptive classifier-predictor for few-shot learning,” *IEEE Trans. Neural Netw. Learn. Syst.*, vol. 32, no. 8, pp. 3458–3470, Aug. 2021, doi: 10.1109/TNNLS.2020.3011526.

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