

Detailed experimental results

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Please refer to `parameter_settings.txt` for parameter settings to get these typical results.

Results for PSGD with approximated Hessian-vector products are similar, and I do not show them here to keep our figures less crowded.

Totally, there are ten plots as listed below.

A. *data_model_criteria_cifar10_autoencoder_example*

B. *data_model_criteria_cifar10_lrelu_example*

C. *data_model_criteria_lstm_add_example*

D. *data_model_criteria_lstm_xor_example*

1) *In linear scale:*

2) *In log scale:*

E. *data_model_criteria_mnist_autoencoder_example*

F. *data_model_criteria_mnist_lrelu_example*

G. *data_model_criteria_rnn_add_example*

H. *data_model_criteria_rnn_xor_example*

1) *In linear scale:*

2) *In log scale:*

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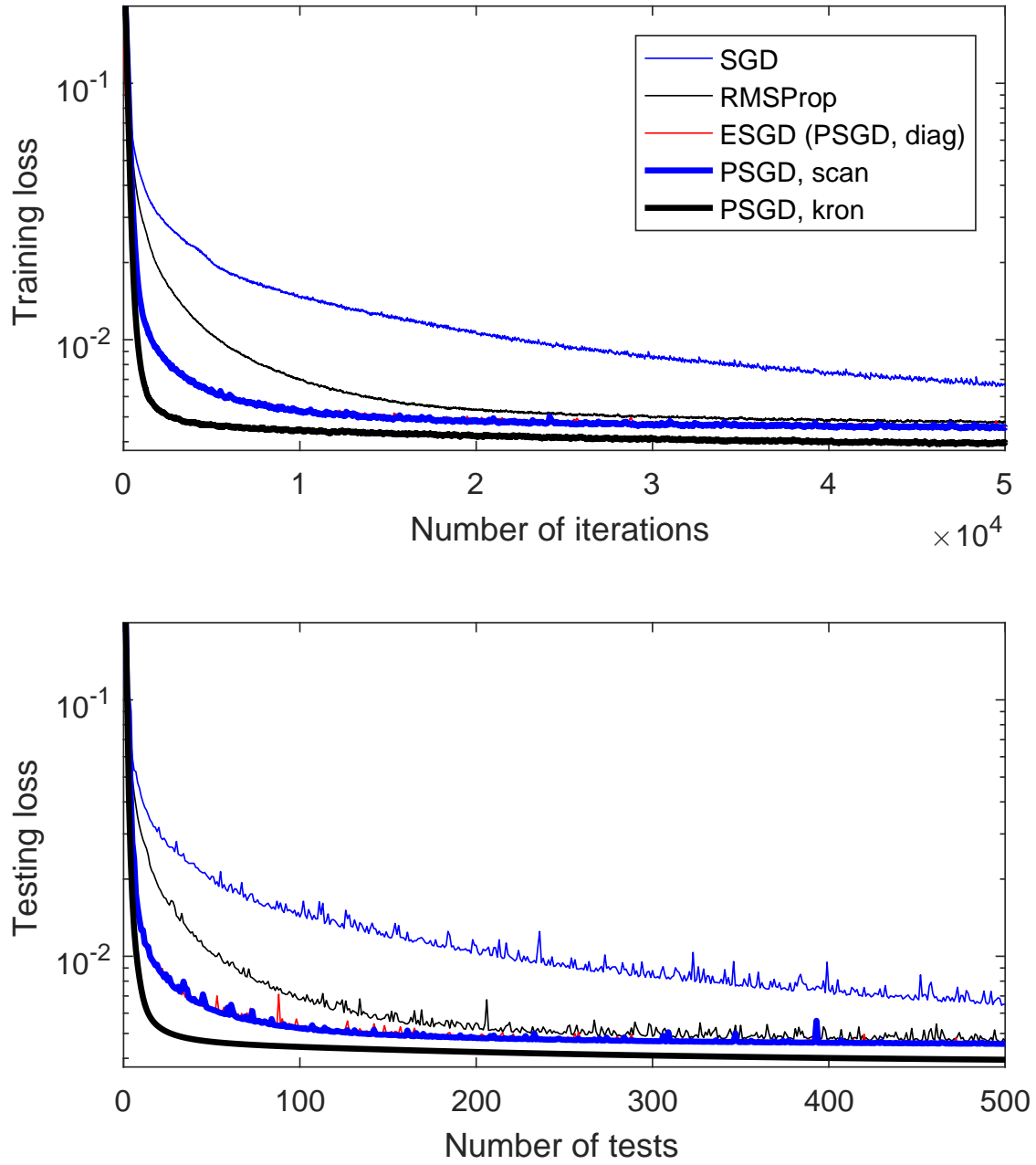


Fig. 1. data_model_criteria_cifar10_autoencoder_example

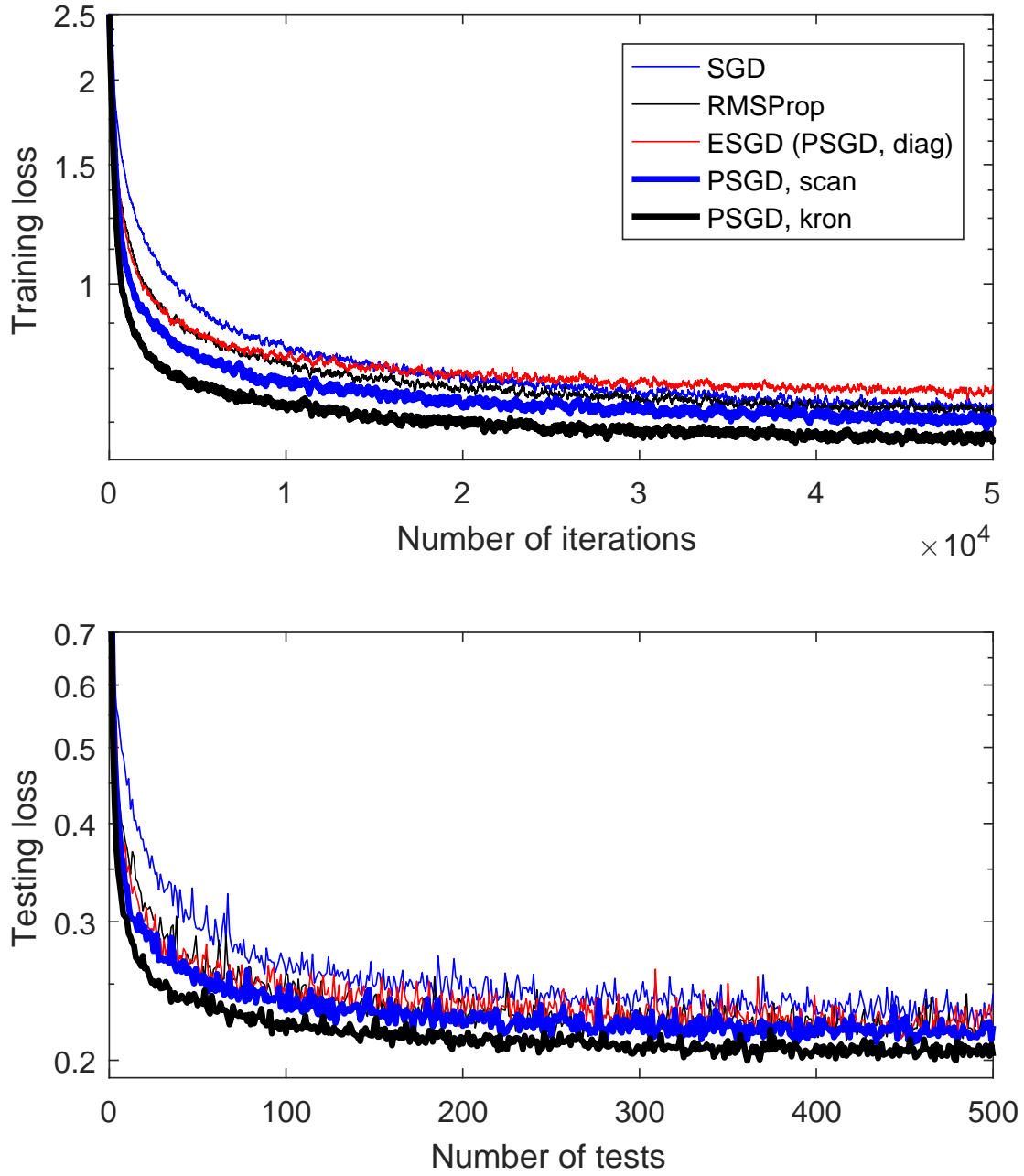


Fig. 2. data_model_criteria_cifar10_lrelu_example

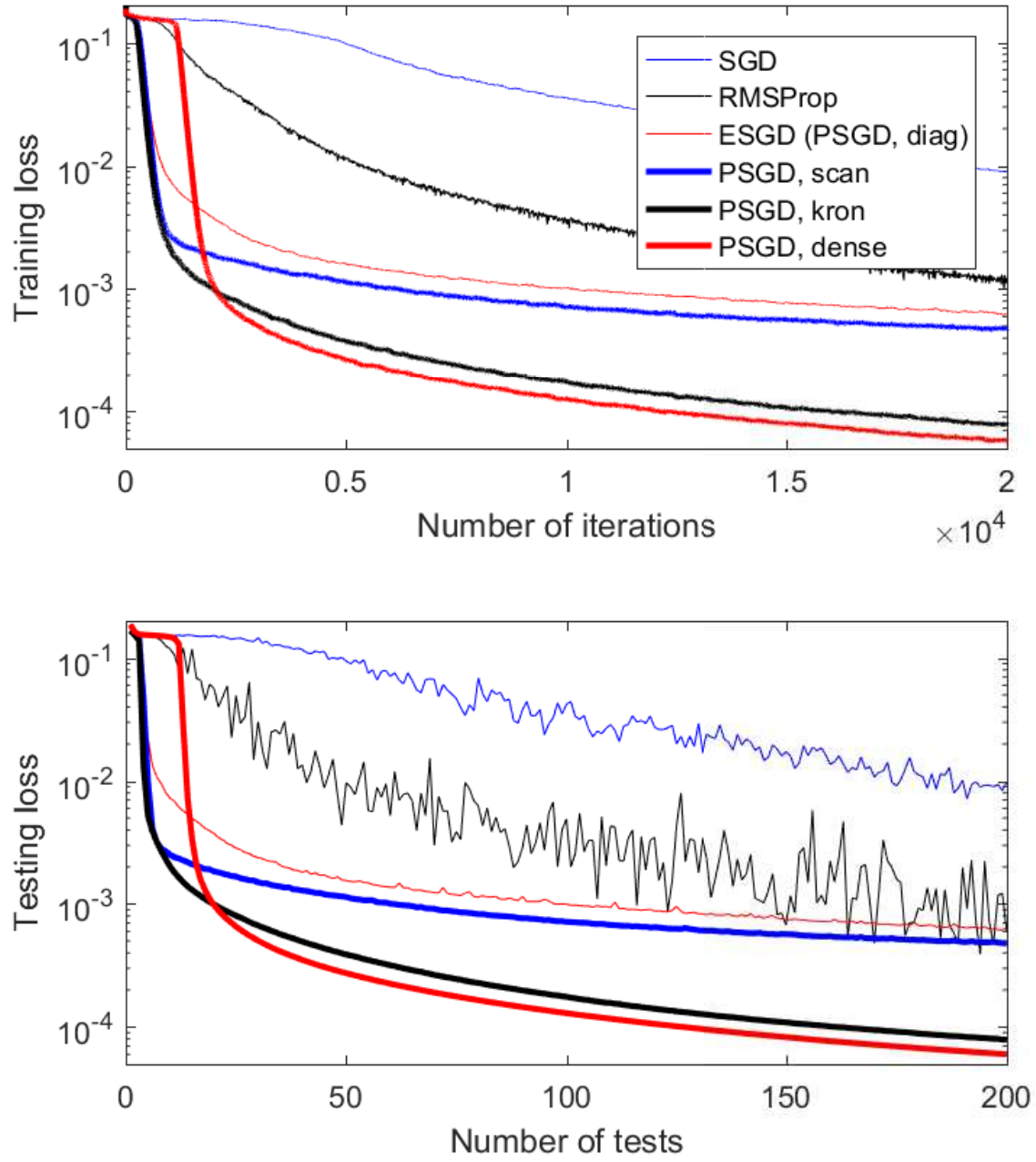


Fig. 3. data_model_criteria_lstm_add_example

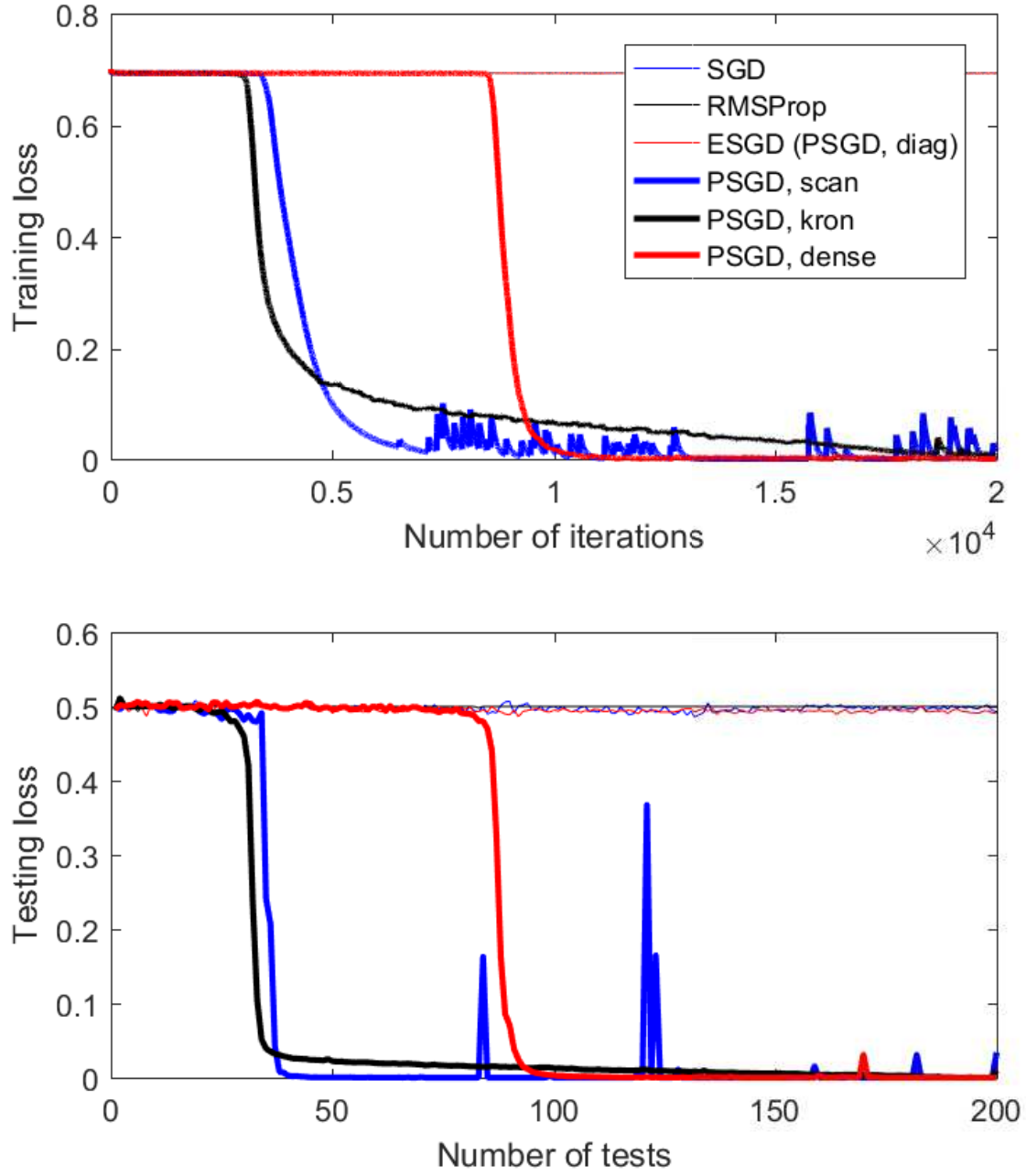


Fig. 4. data_model_criteria_lstm_xor_example, linear scale

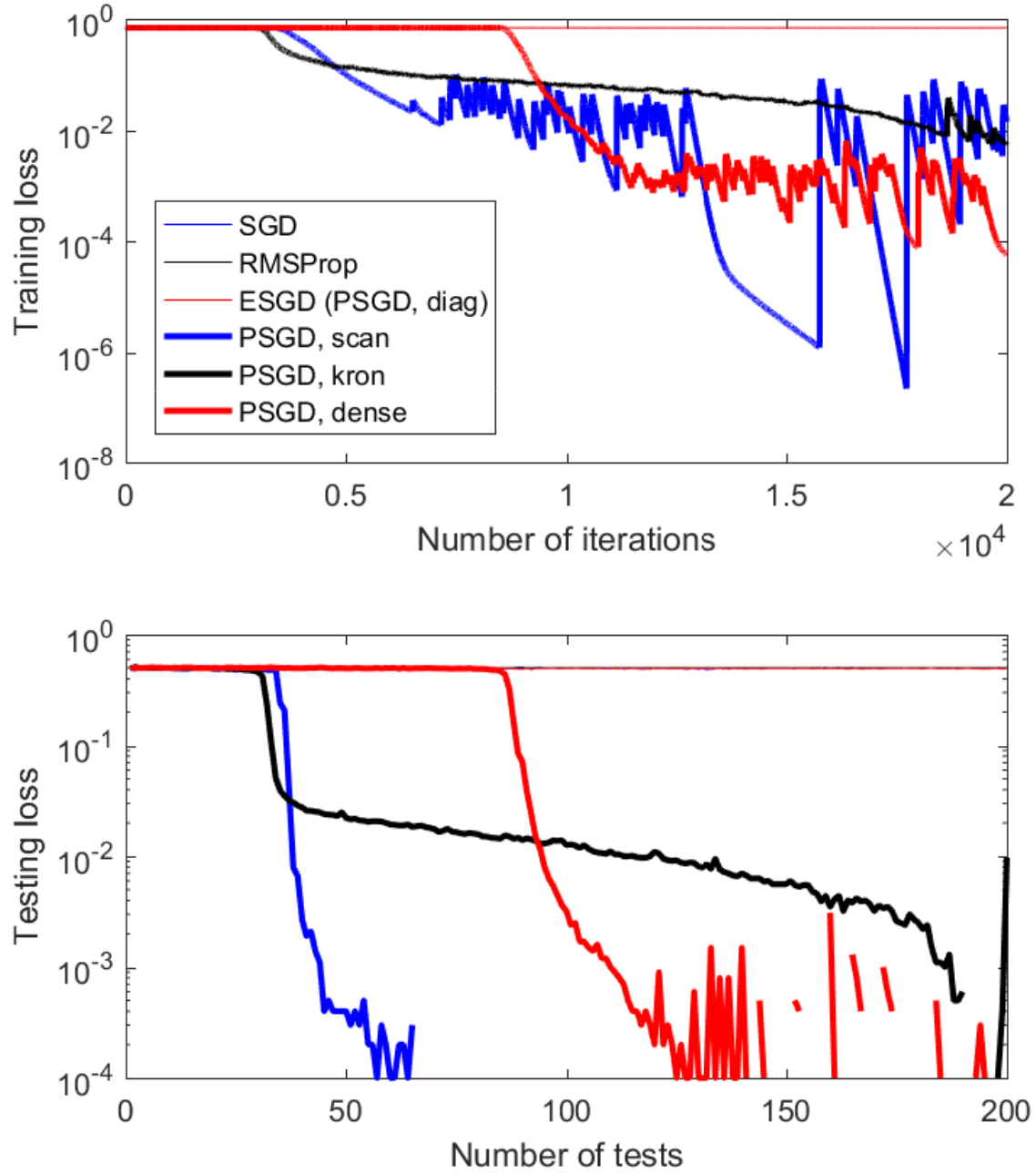


Fig. 5. data_model_criteria_lstm_xor_example, log scale

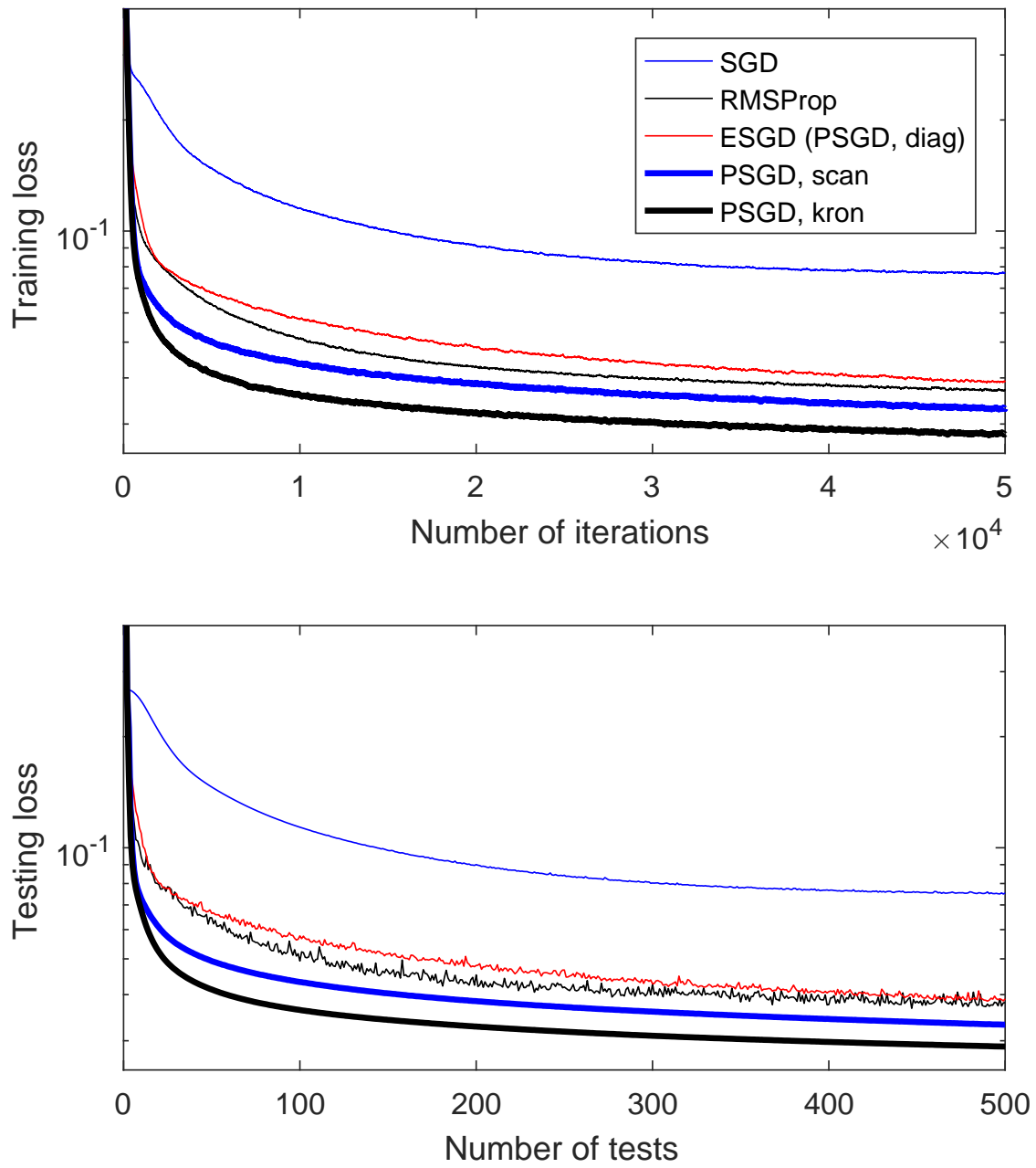


Fig. 6. data_model_criteria_mnist_autoencoder_example

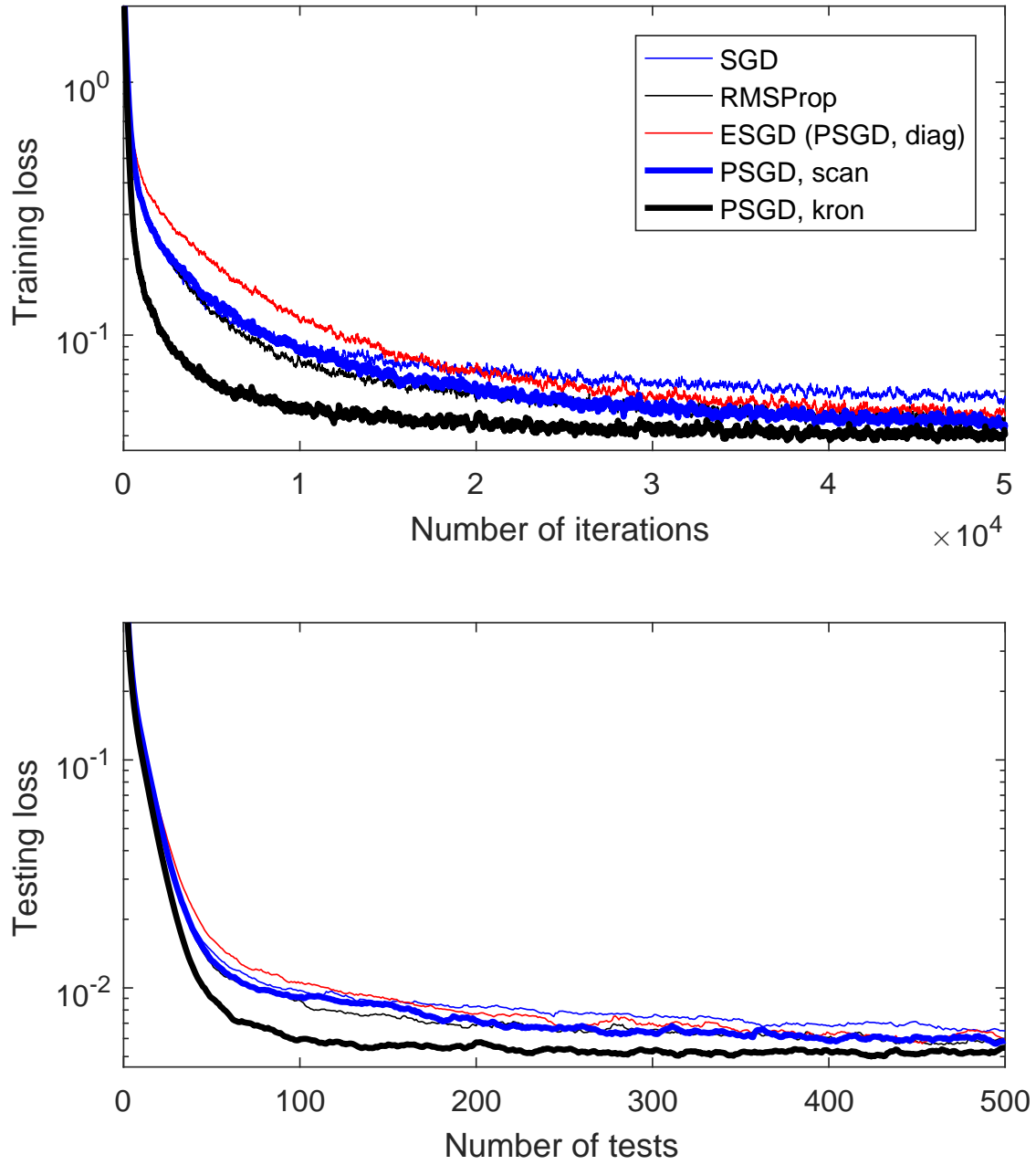


Fig. 7. data_model_criteria_mnist_lrelu_example

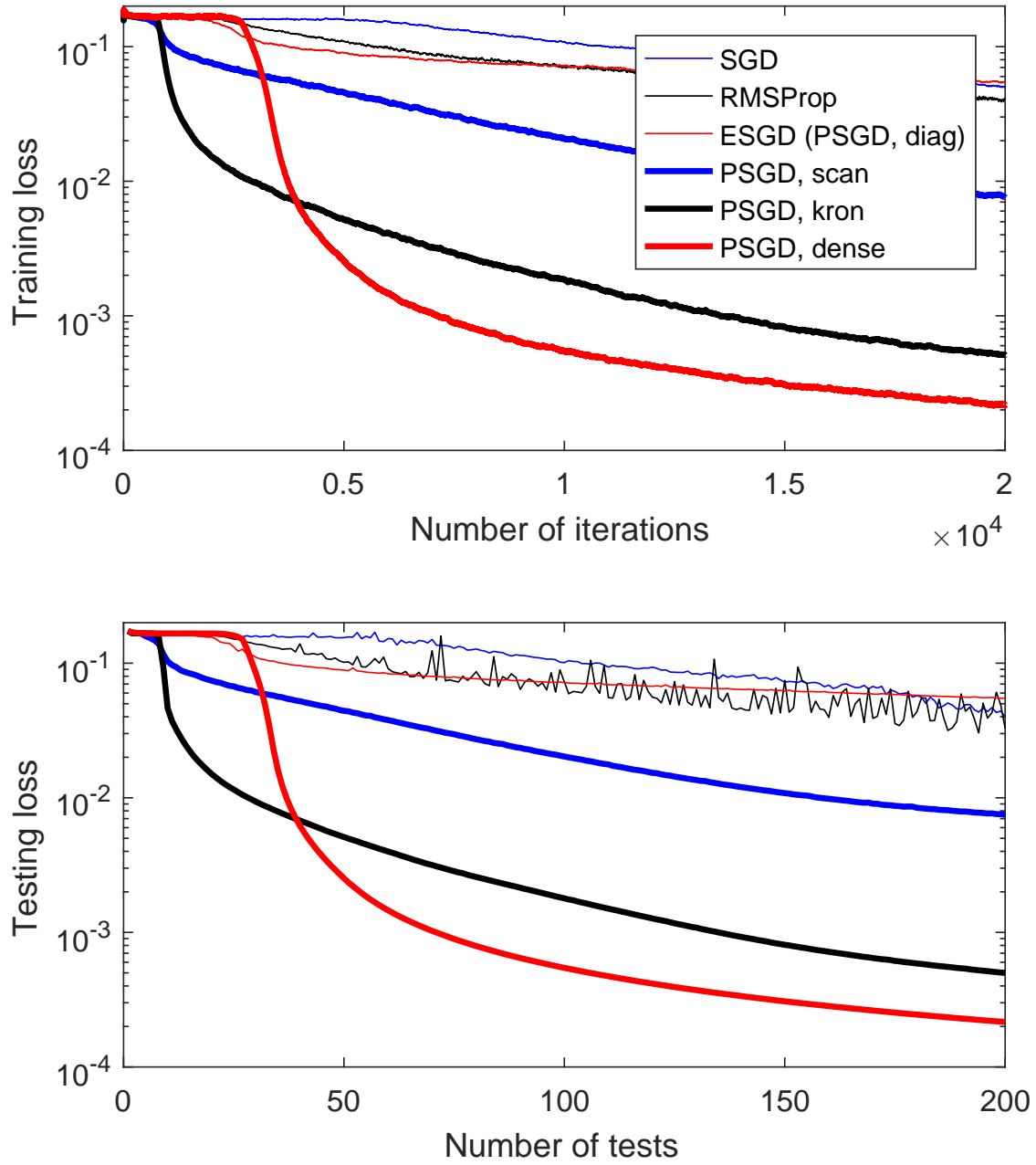


Fig. 8. data_model_criteria_rnn_add_example

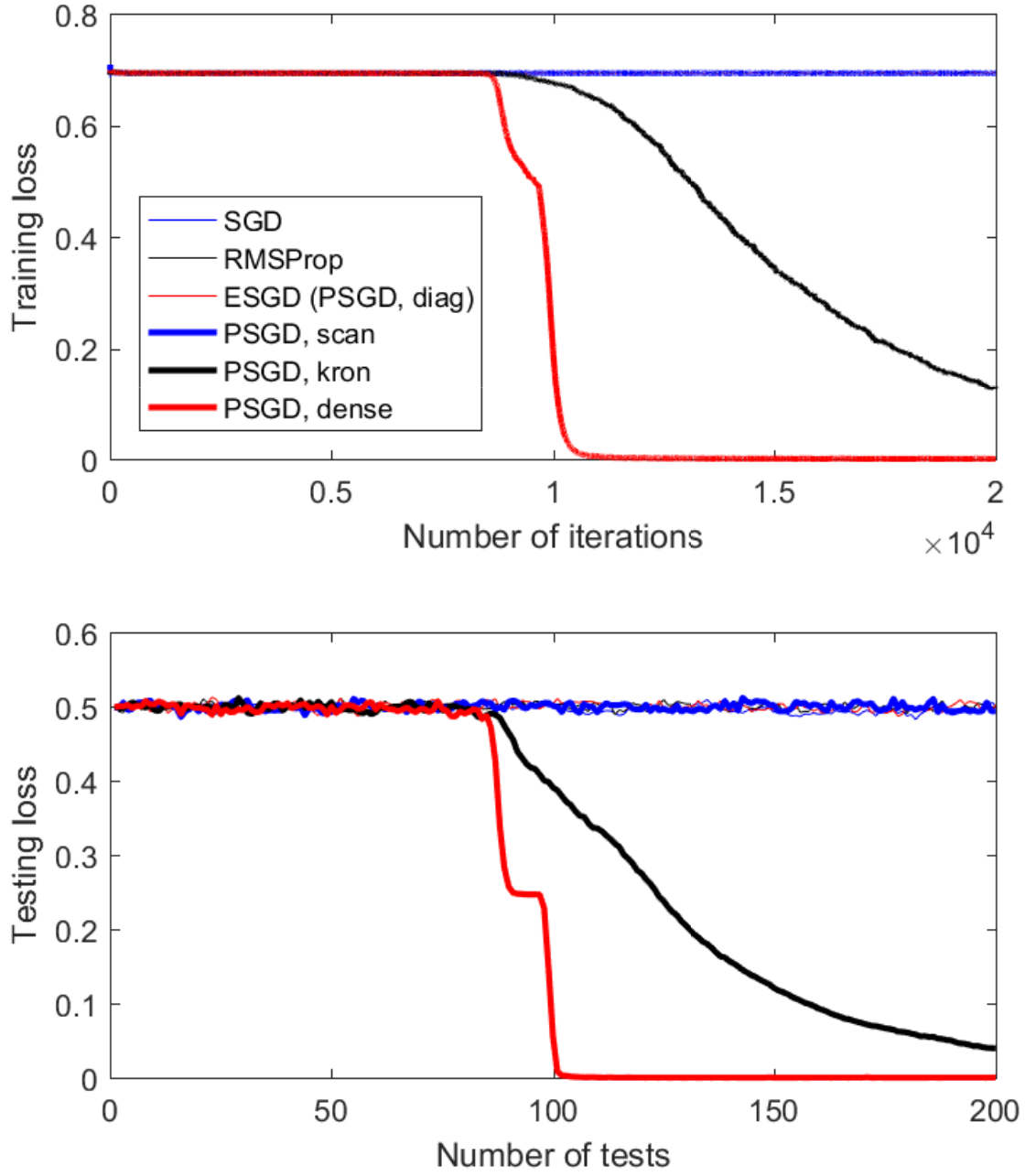


Fig. 9. data_model_criteria_rnn_xor_example, linear scale

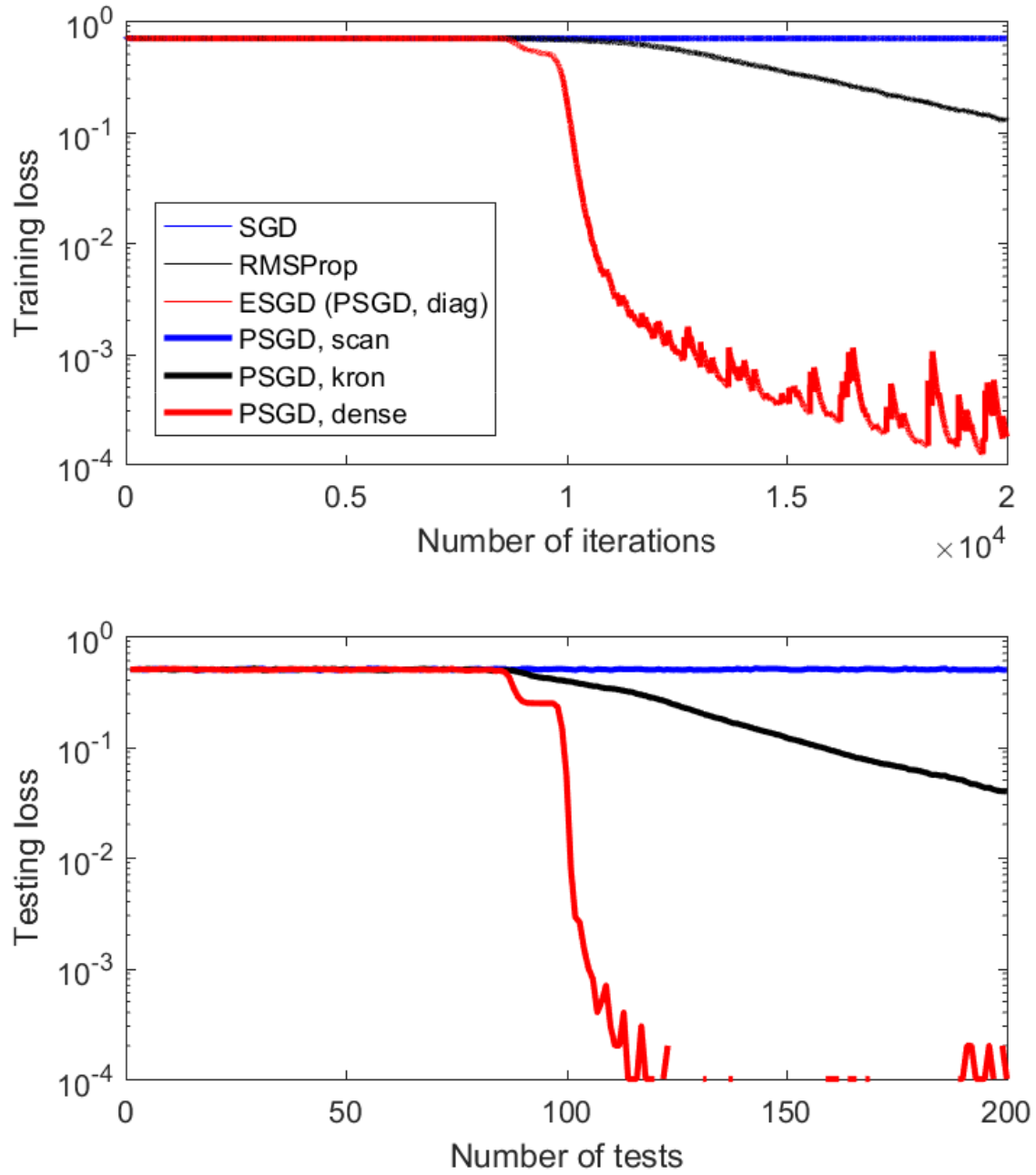


Fig. 10. data_model_criteria_rnn_xor_example, log scale