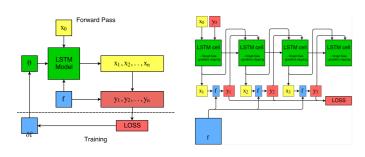
Blackbox Optimization using LSTMs

Felix Sattler, Pattarawat Chormai, Raphael Holca-Lamarre

Summary

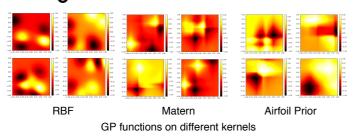
We present a new way of optimizing black box functions...

Model



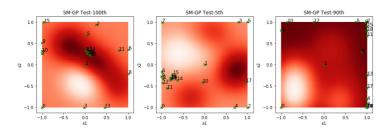
LSTMs explanation

Training Data



Training Data: Gaussian Processes, different Kernels

Comparison of Loss Functions

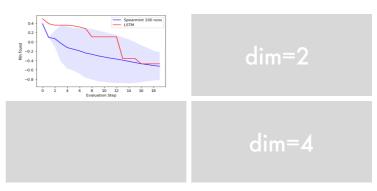


The model learns different optimization techniques depending on the loss function.. exploration/exploitation trade off..

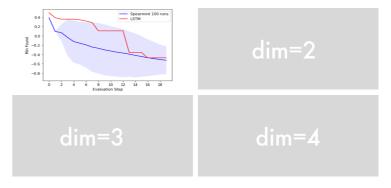
Loss functions and equations

- min
- sum
- OI

Results (on GPs)



Results (on Benchmask Funcs)



Results (on Airfoil data)

Conclusions

- Neque porro quisquam est qui dolorem ips
- Neque porro quisquam est qui dolorem ips

References

- The Deep Mind Paper
- Spearmint Paper
- GPs Paper maybe?

Acknowledgement

