Overview

Differentiable Architecture Search (DARTS)

DARTS as Surrogate

Beyond Finite Search Spaces

Overview
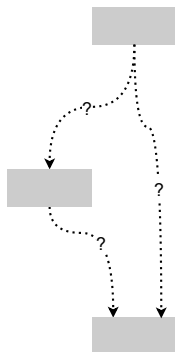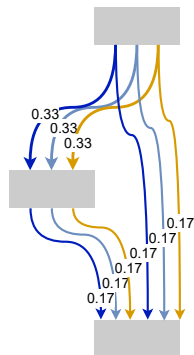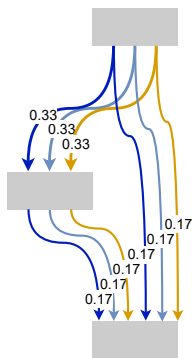
Differentiable Architecture Search

DARTS [Liu et al., 2018] considered as pioneer work

Differentiable Architecture Search

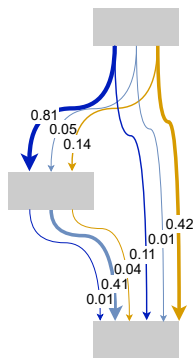*DARTS* [Liu et al., 2018] considered as pioneer work
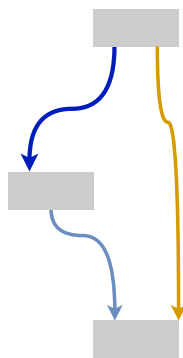
Differentiable Architecture Search

DARTS [Liu et al., 2018] considered as pioneer work

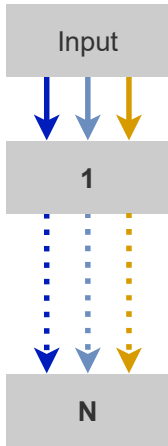Training start   Training end   Obtain best architecture
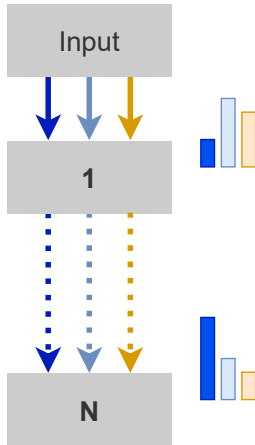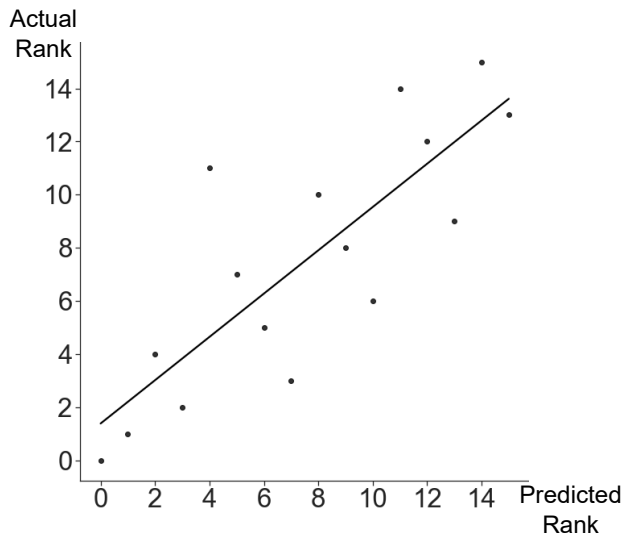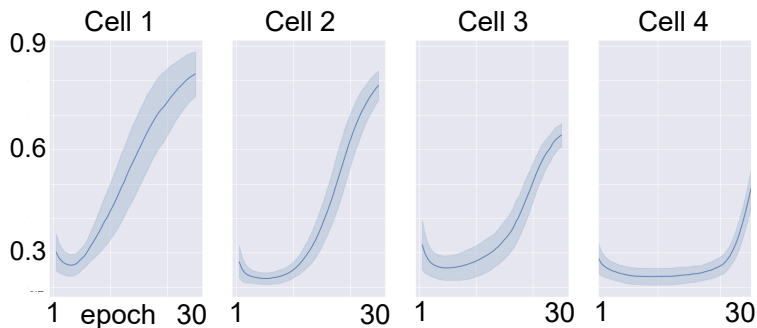
Overview

Search Space

Search Space

DARTS Surrogate

Architecture Plasticity

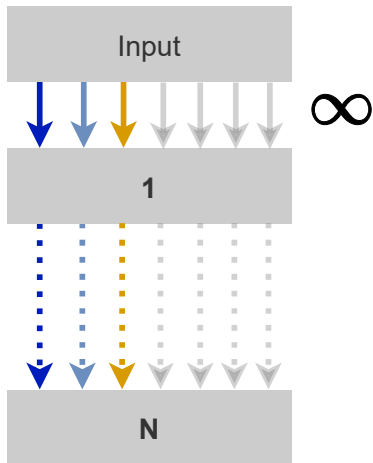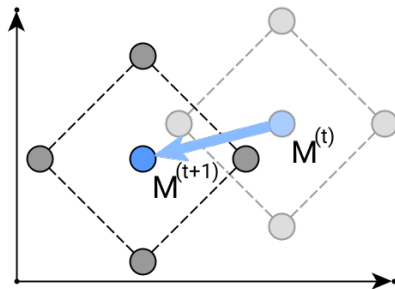Maximum norm of architecture parameter vector per epoch per cell

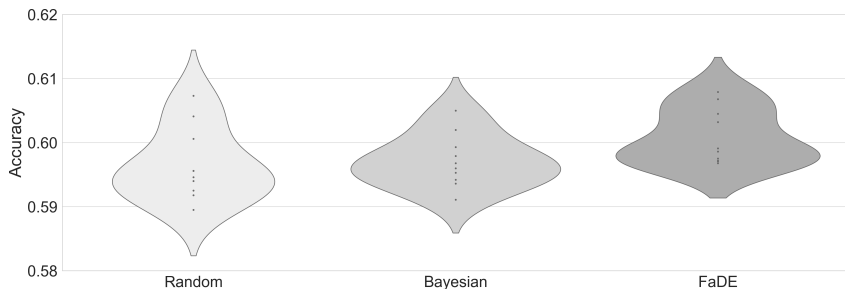# Overview

Search Space Extension

Finite Difference Descent

2-dim euclidean search space

Experiment Results

Top 10 architectures found by Random Search, Bayesian Search and our approach

References

[Liu et al., 2018] Liu, H., Simonyan, K., and Yang, Y. (2018).
    Darts: Differentiable architecture search.