

ML Problems

High-dimensional inference
Curse-of-dimensionality

Approximation theory

Interpolants
Error bounds

Algorithms & Complexity

Space/time efficient algorithms
Theorems of convergence
Big-Oh analysis

Applications

Empirical accuracy
Application of error bounds
Working into pipelines

Software

Robust implementations
Handling degeneracies

Scalability

Large-scale linear
programming

Usability

Differentiable
optimization

