OpML '19: 2019 USENIX Conference on Operational Machine Learning May 20, 2019 Santa Clara, CA, USA

Production Experiences and Learnings
Opportunities and Challenges Of Machine Learning Accelerators In Production
Accelerating Large Scale Deep Learning Inference through DeepCPU at Microsoft
MLOp Lifecycle Scheme for Vision-based Inspection Process in Manufacturing
Shooting the moving target: machine learning in cybersecurity
Deep Learning Inference Service at Microsoft
Handling Heterogeneity, Distribution, and Scale
Towards Taming the Resource and Data Heterogeneity in Federated Learning
Measuring and Diagnosing Production ML
MPP: Model Performance Predictor
Optimizing and Tuning
Low-latency Job Scheduling with Preemption for the Development of Deep Learning
tensorflow-tracing: A Performance Tuning Framework for Production
Disdat: Bundle Data Management for Machine Learning Pipelines
TonY: An Orchestrator for Distributed Machine Learning Jobs
Transfer Learning for Performance Modeling of Deep Neural Network Systems

Solutions and Platforms
KnowledgeNet: Disaggregated and Distributed Training and Serving of Deep Neural Networks
Continuous Training for Production ML in the TensorFlow Extended (TFX) Platform
Katib: A Distributed General AutoML Platform on Kubernetes
Stratum: A Serverless Framework for the Lifecycle Management of Machine Learning-based Data Analytics Tasks