Session: Systems for ML 1

Moderator: **Martin Maas**

Talk Order:

Oral: MLPerf Mobile Inference Benchmark: An Industry-Standard Open-Source Machine Lear
Oral: TorchSparse: Efficient Point Cloud Inference Engine
Oral: Hydrozoa: Dynamic Hybrid-Parallel DNN Training on Serverless Containers
Oral: Plumber: Diagnosing and Removing Performance Bottlenecks in Machine Learning Data
Oral: Graphiler: Optimizing Graph Neural Networks with Message Passing Data Flow Graph

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Exhibit Hall A

MLPerf Mobile Inference Benchmark: An Industry-Standard Open-Source Machine Learning Benchmark for On-Device AI

- Vijay Janapa Reddi
- David Kanter
- Peter Mattson
- Jared Duke
- Thai Nguyen
- Ramesh Chukka
- Ken Shiring
- Koan-Sin Tan
- Mark Charlebois
- William Chou
- Mostafa El-Khamy

- Jungwook Hong
- Tom St John
- Cindy Trinh
- Michael Buch
- Mark Mazumder
- Relja Markovic
- Thomas Atta
- Fatih Cakir
- Masoud Charkhabi
- Xiaodong Chen
- Cheng-Ming Chiang
- Dave Dexter
- Terry Heo
- Guenther Schmuelling
- Maryam Shabani
- Dylan Zika

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TorchSparse: Efficient Point Cloud Inference Engine

- Haotian Tang
- Zhijian Liu
- Xiuyu Li
- Yujun Lin
- Song Han

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Hydrozoa: Dynamic Hybrid-Parallel DNN Training on Serverless Containers

- Runsheng Guo
- Victor Guo
- Antonio Kim
- Josh Hildred
- Khuzaima Daudjee

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Plumber: Diagnosing and Removing Performance Bottlenecks in Machine Learning Data Pipelines

- Michael Kuchnik
- Ana Klimovic
- Jiri Simsa
- Virginia Smith
- George Amvrosiadis

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Graphiler: Optimizing Graph Neural Networks with Message Passing Data Flow Graph

- Zhiqiang Xie
- Minjie Wang
- Zihao Ye
- Zheng Zhang
- Rui Fan

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