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Efficient Graph neural networks at Google

Friday 5 September 2025 09:20 (25 minutes)

Graph Neural Networks (GNNs) are a powerful paradigm for Neural Net ML models to operate on relational data or data with structural information. This talk explores the practical use and ongoing research on GNN done at Google for industrial applications. We provide a brief overview of GNNs modeling, including GCNs, Graph Transformers, and geometric-aware models. Then we discuss a variety of real-world applications. Finally, we talk about scaling challenges on very large graphs, dynamic graphs, and fast inference on specialized hardware acceleration.

Presenter: GUILLAME-BERT, Mathieu (Google Zurich)

Session Classification: Invited talks

Track Classification: Invited Talks