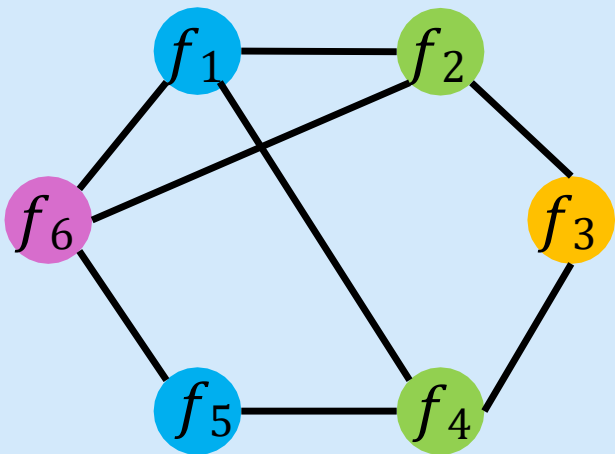


Quantized Stochastic Primal–Dual Methods for Distributed Optimization under Relaxed Global Geometry

Susmit Sarkar, Abhinav Raghuvarshi, Kushal Chakrabarti, Mayank Baranwal

Context Summary



Algorithm

$$\begin{pmatrix} \cdot & \cdot \\ \cdot & \cdot \end{pmatrix} \begin{pmatrix} \cdot \\ \cdot \end{pmatrix} \begin{pmatrix} \cdot & \cdot \\ \cdot & \cdot \end{pmatrix} \begin{pmatrix} \cdot \\ \cdot \end{pmatrix}$$

Problem Statement

Challenges

Key Results (Theory)

Theorem 1:

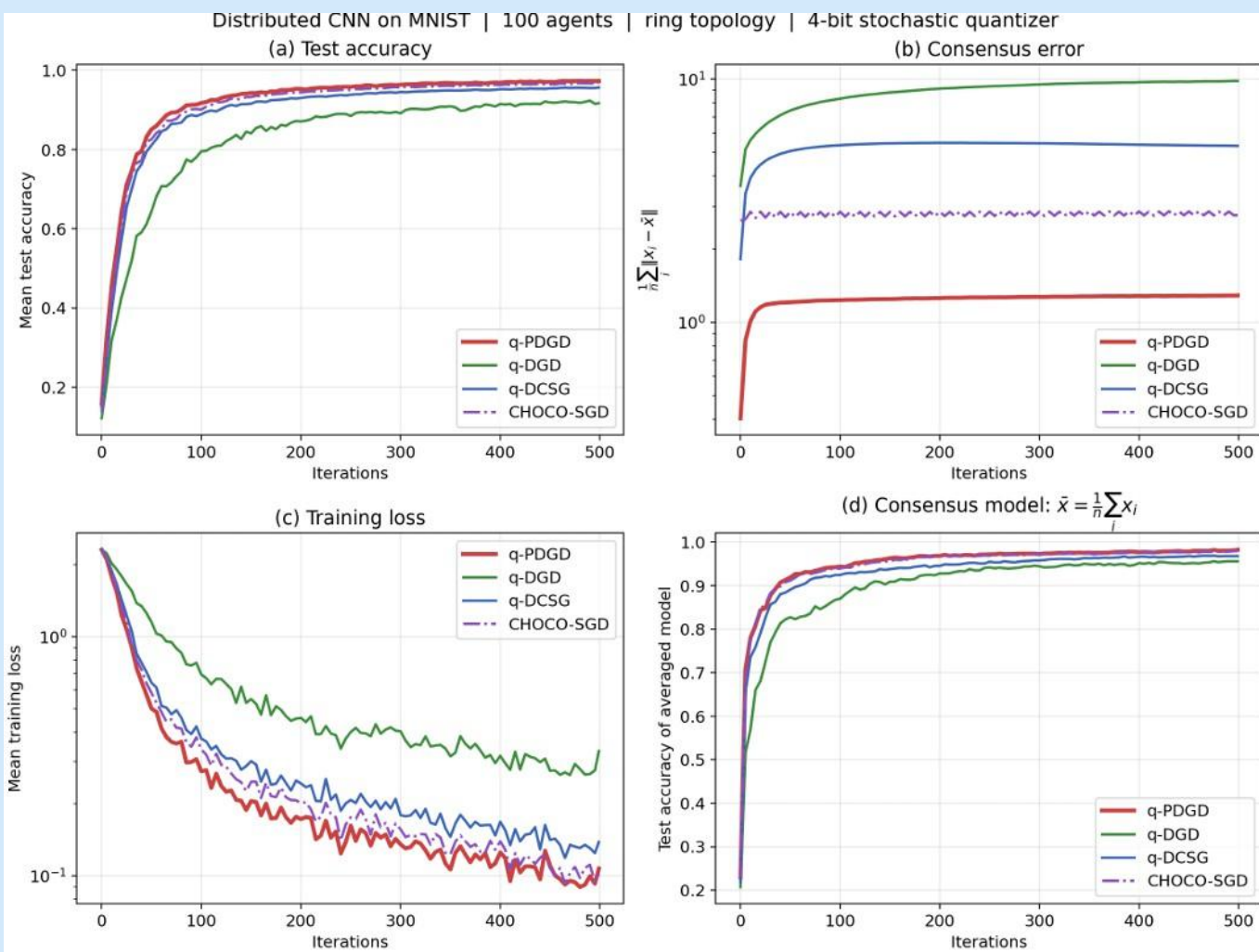
Theorem 2:

Theorem 3:

Assumptions

$$\begin{pmatrix} \cdot & \cdot \\ \cdot & \cdot \end{pmatrix} \begin{pmatrix} \cdot \\ \cdot \end{pmatrix} \begin{pmatrix} \cdot & \cdot \\ \cdot & \cdot \end{pmatrix} \begin{pmatrix} \cdot \\ \cdot \end{pmatrix}$$

Experiments



TCS Research

