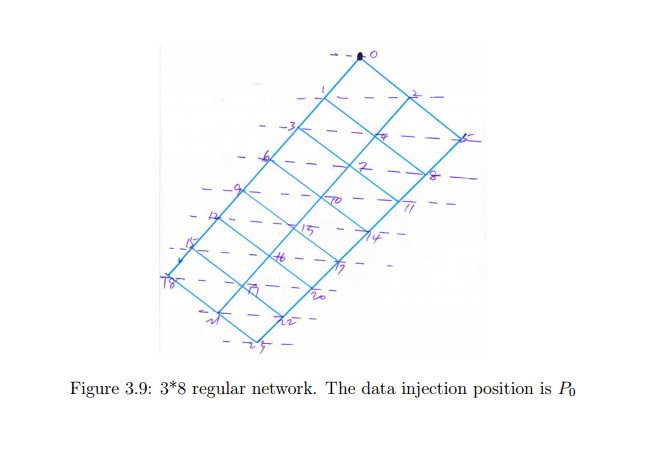
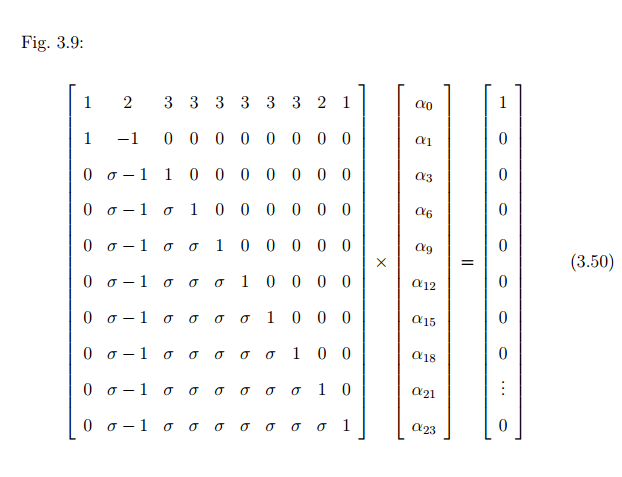
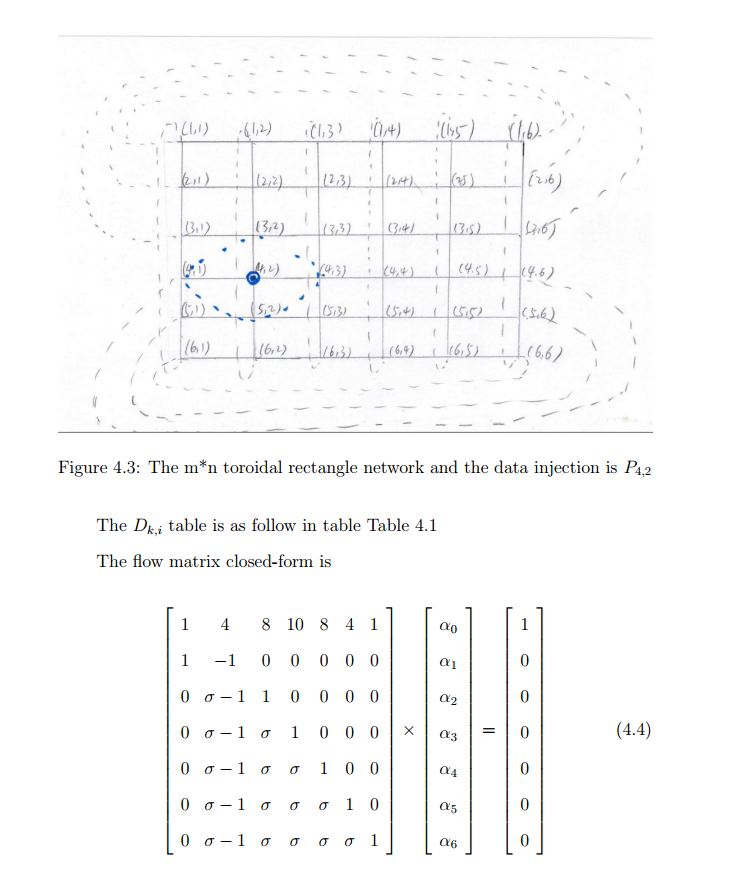
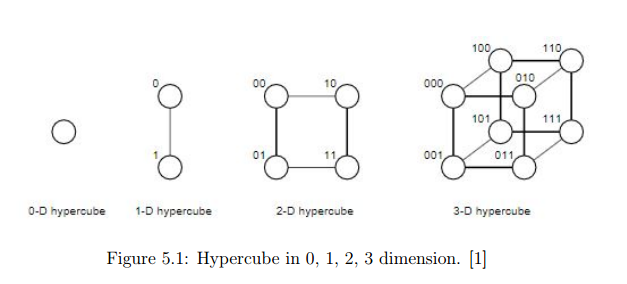
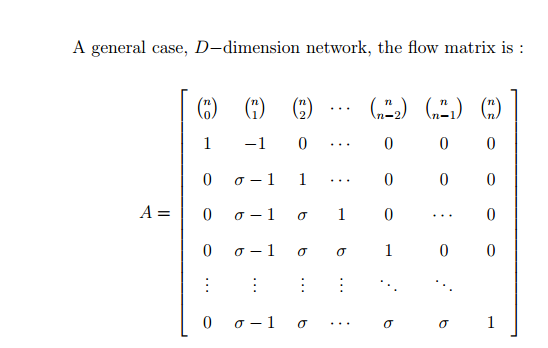
* We establish a closed-from quantity model to analysis the speedup efficiency for regular, toroidal rectangle and hypercube network.
  1. Further, the data injection is on the corner, boundary processor and inner grid.
  2. With front end and Without front-end



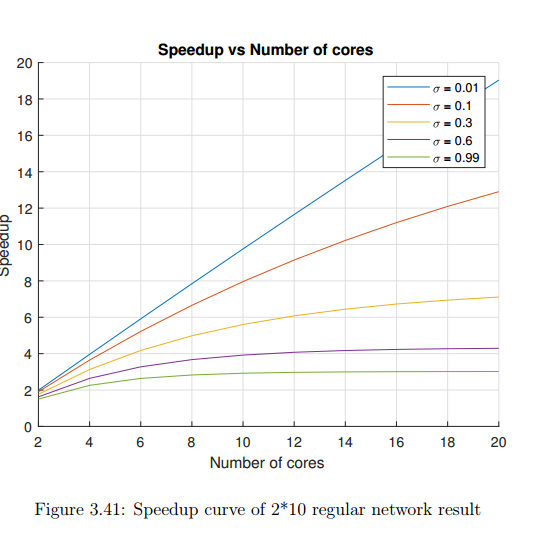


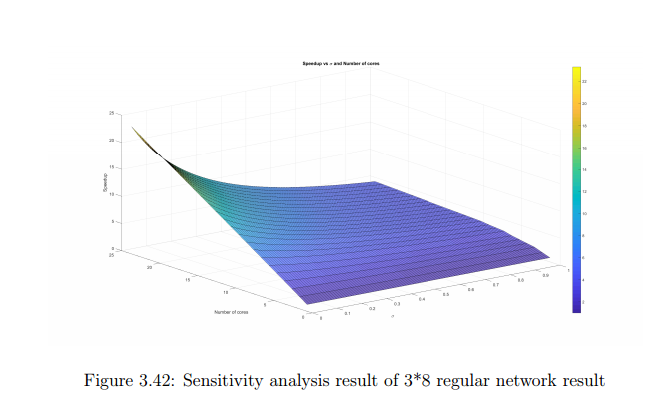






* We establish a sensitivity analysis model for regular, toroidal rectangle and hypercube network.
  + Corner, boundary processor and inner grid processor.
  + Frontend and without frontend
  + Comparison between the regular network and toroidal network





* We propose a quantity model for multi-source optimal (Even data fraction) or suboptimal (different data fraction) regular, toroidal network and hypercube network.
* Further, we propose three algorithms to save processors to hit the same execution time.

