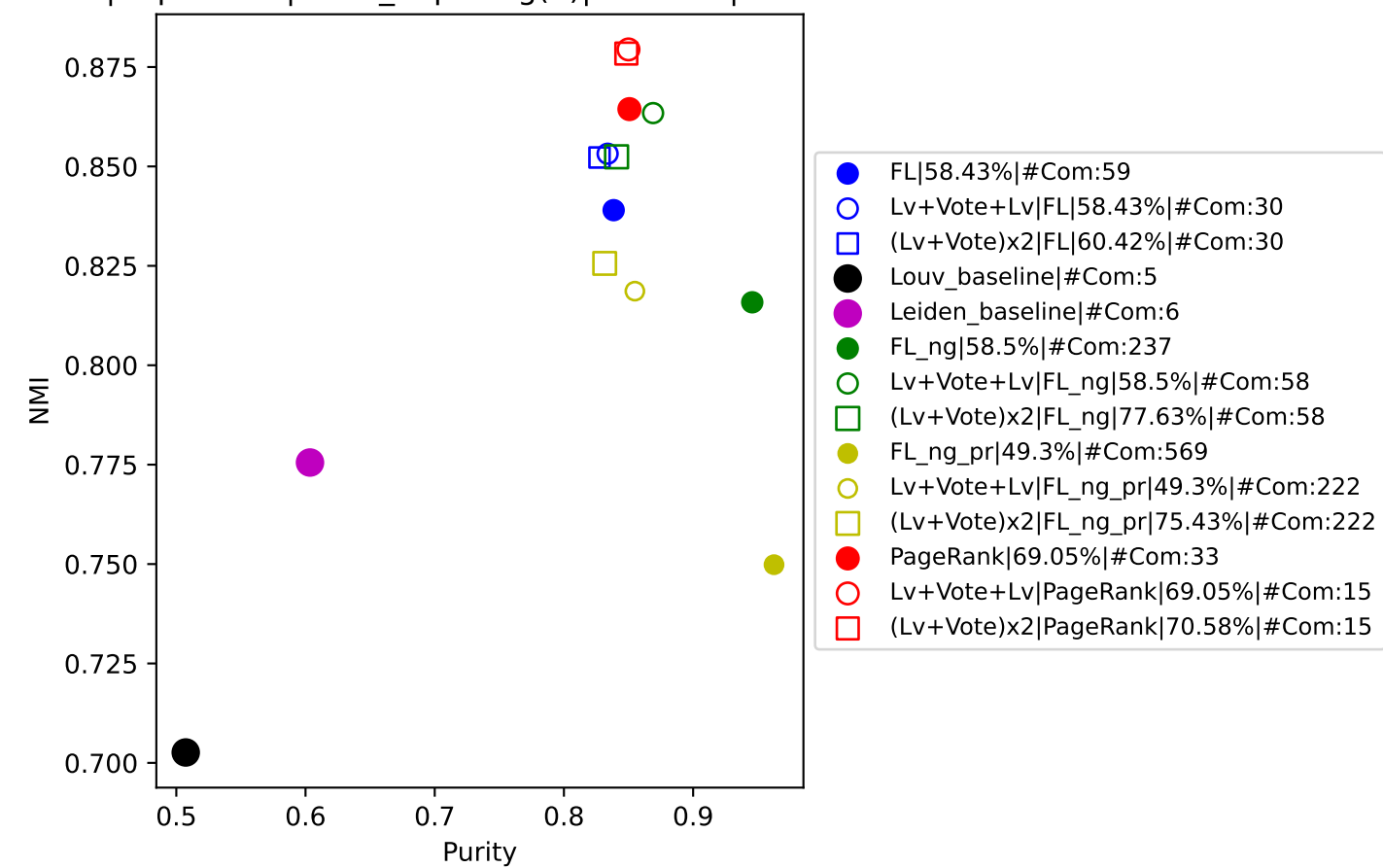
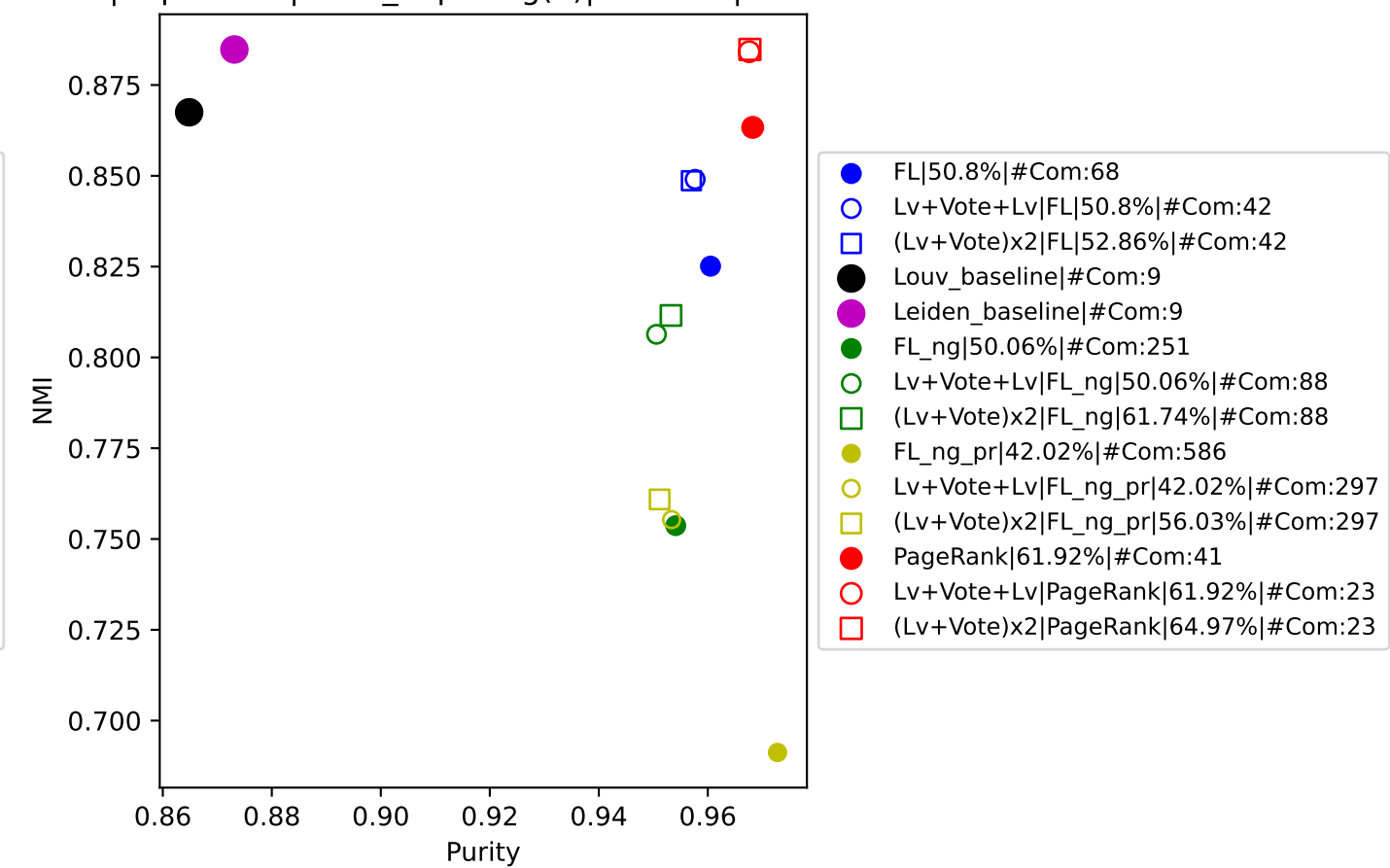


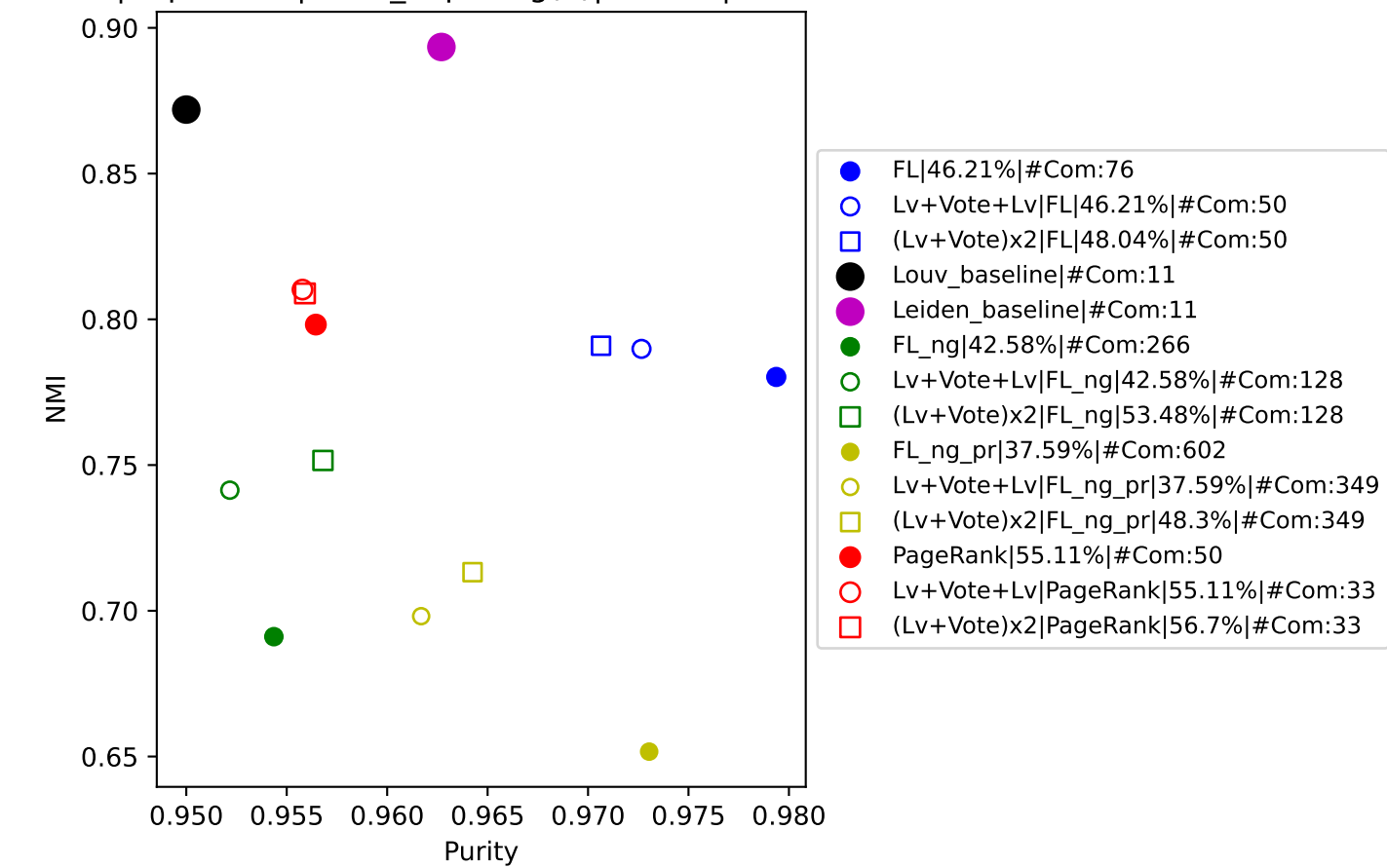
MNIST | top 20.0%| Num_hops: log(n)|res: 0.05|#OfComm: 10



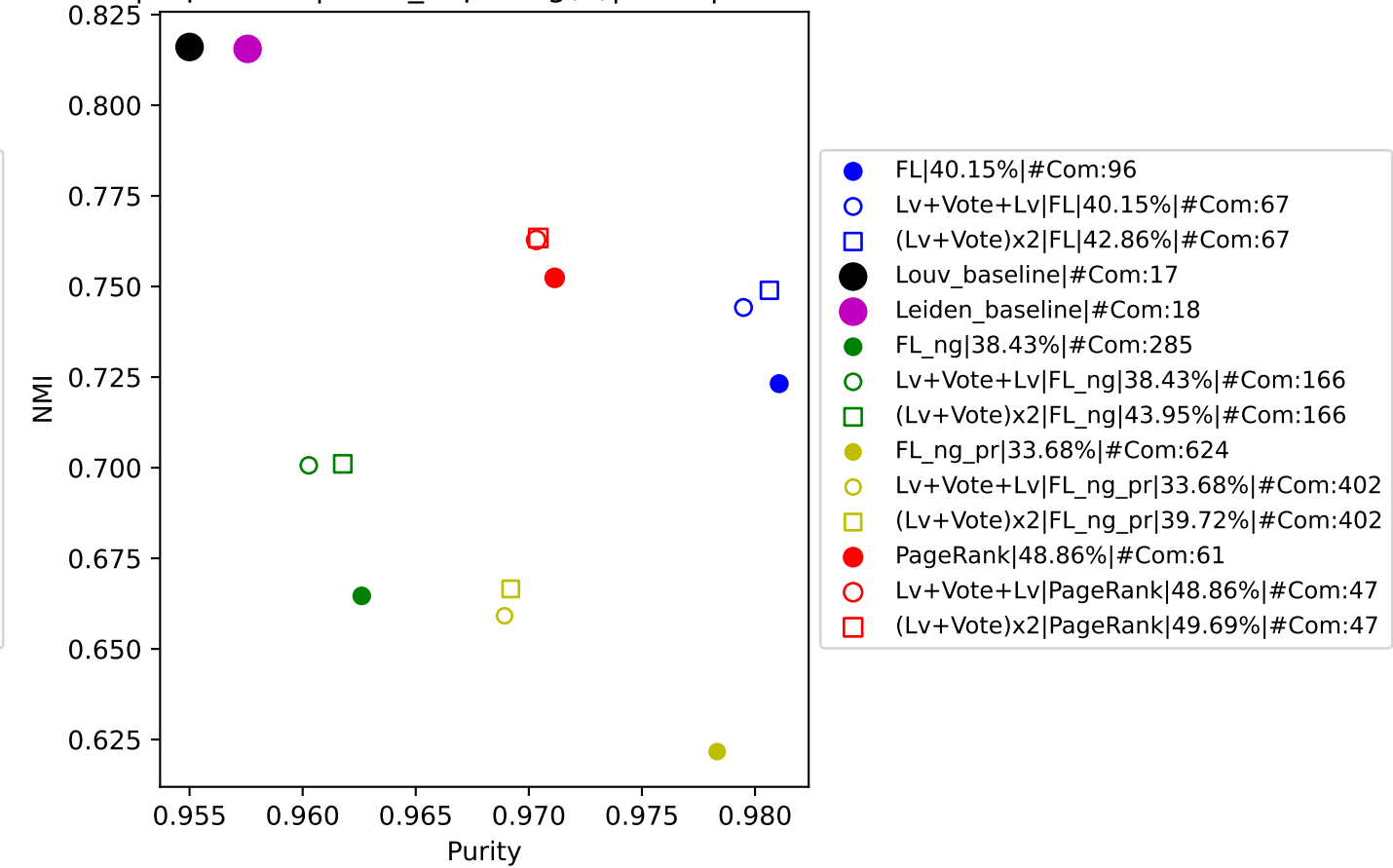
MNIST | top 20.0%| Num_hops: log(n)|res: 0.25|#OfComm: 10



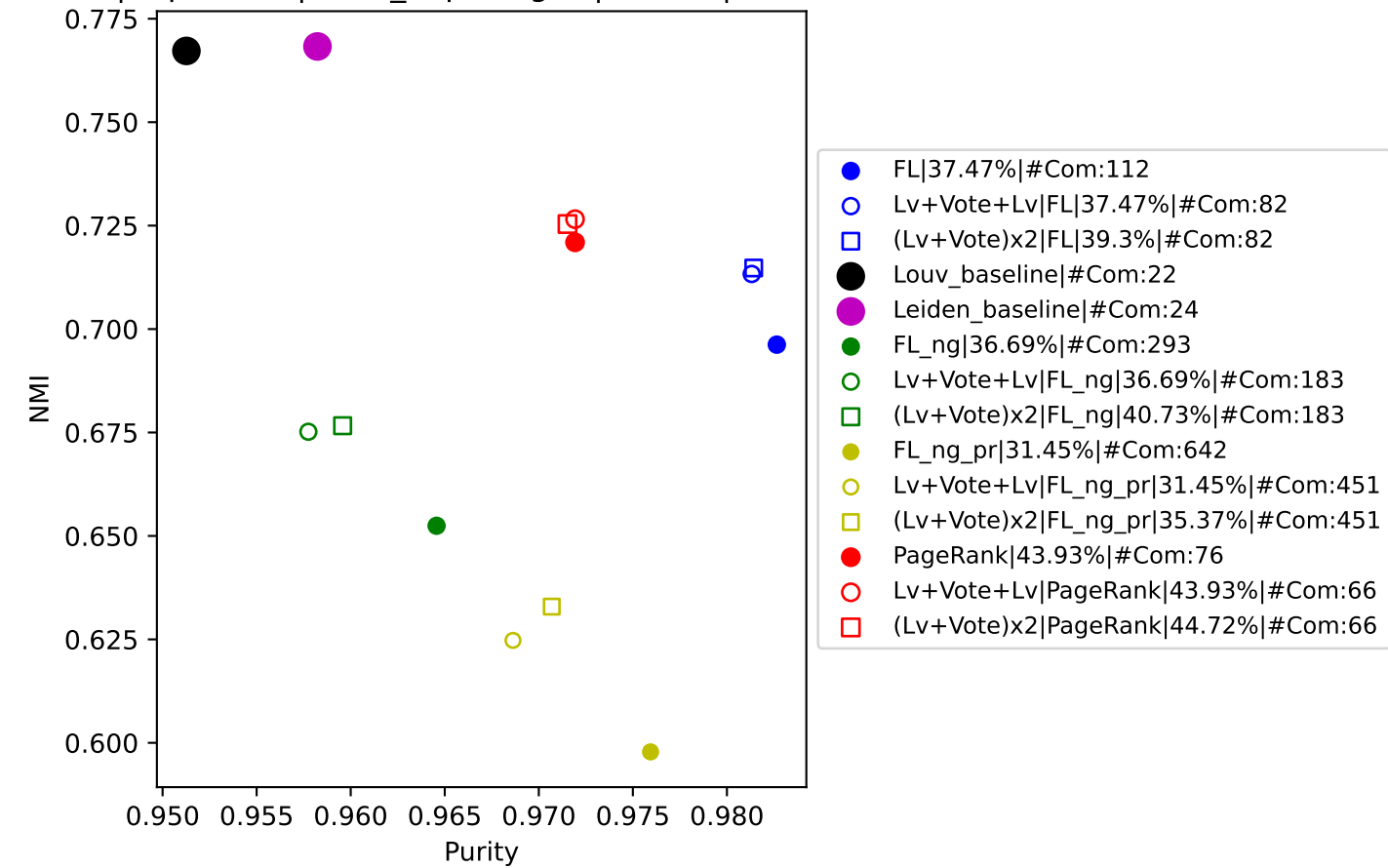
MNIST | top 20.0%| Num_hops: log(n)|res: 0.5|#OfComm: 10



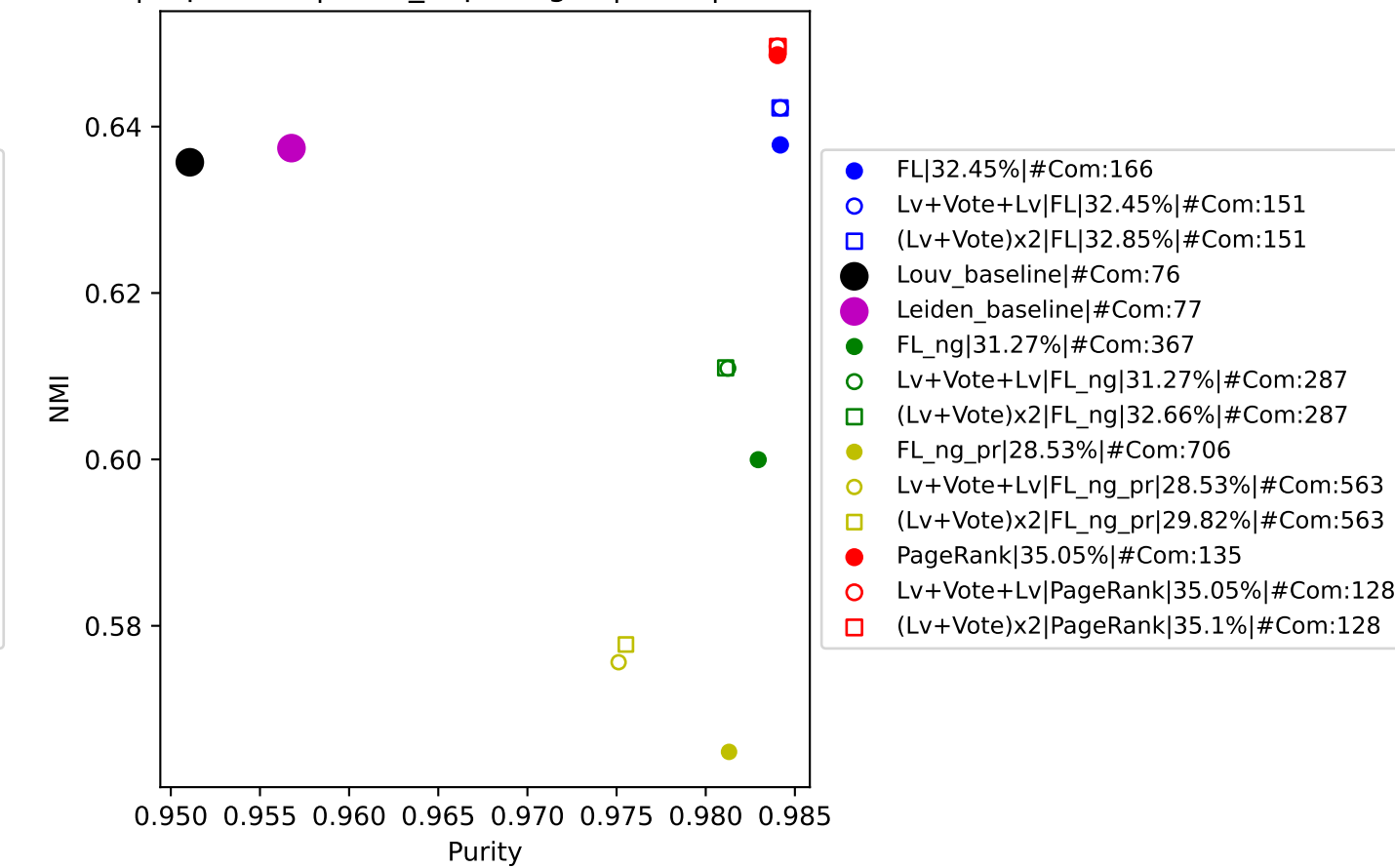
MNIST | top 20.0%| Num_hops: log(n)|res: 1|#OfComm: 10



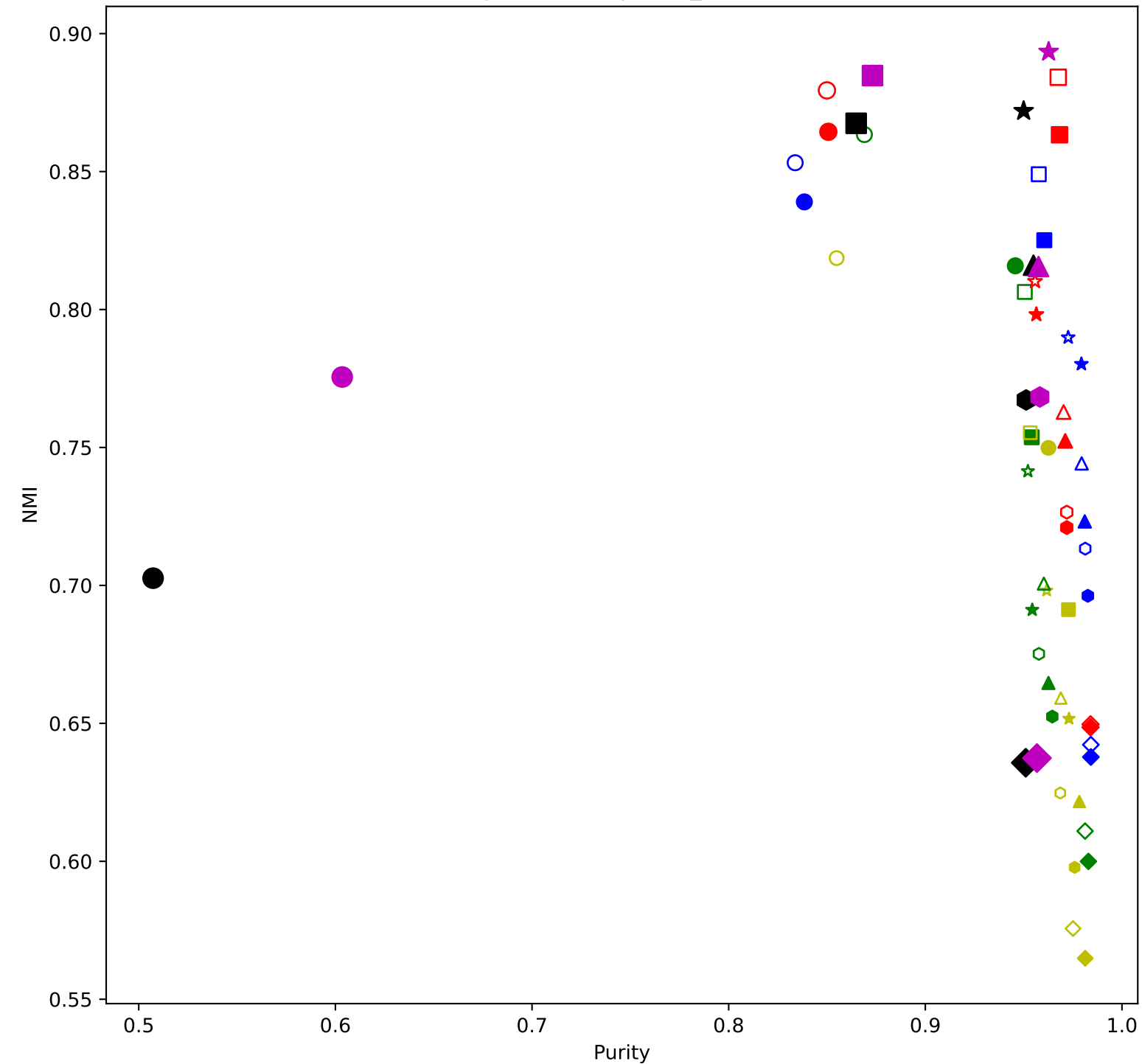
MNIST | top 20.0%| Num_hops: log(n)|res: 1.5|#OfComm: 10



MNIST | top 20.0%| Num_hops: log(n)|res: 5|#OfComm: 10

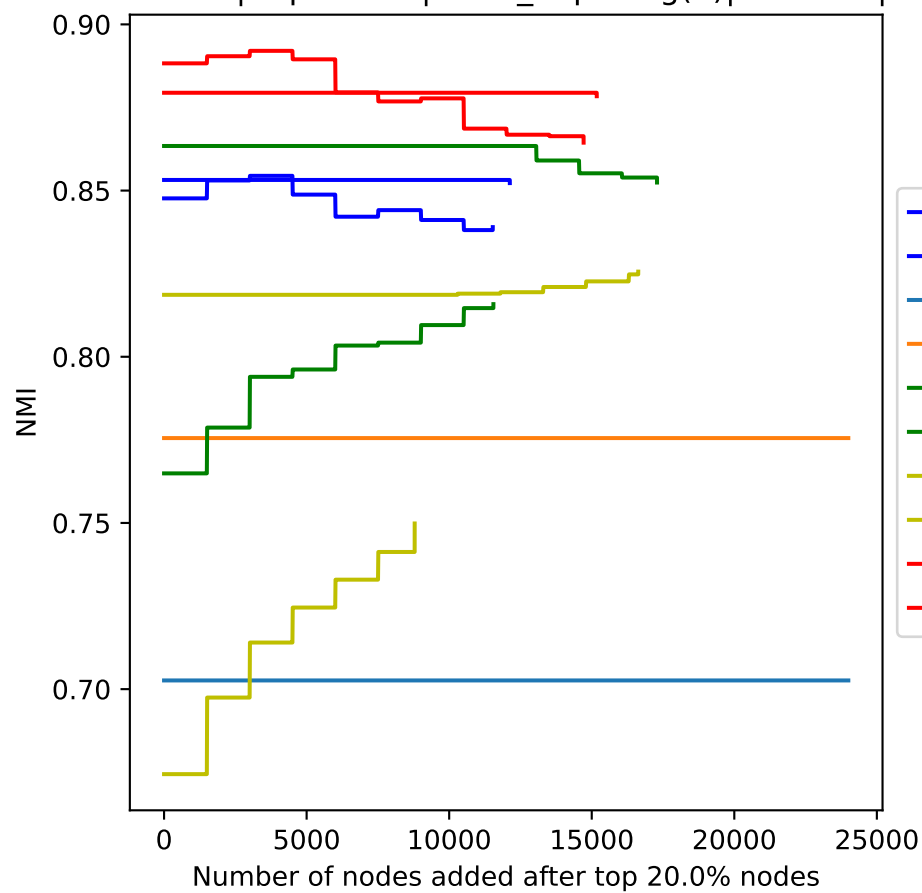


MNIST | top 20.0%| Num_hops: log(n)



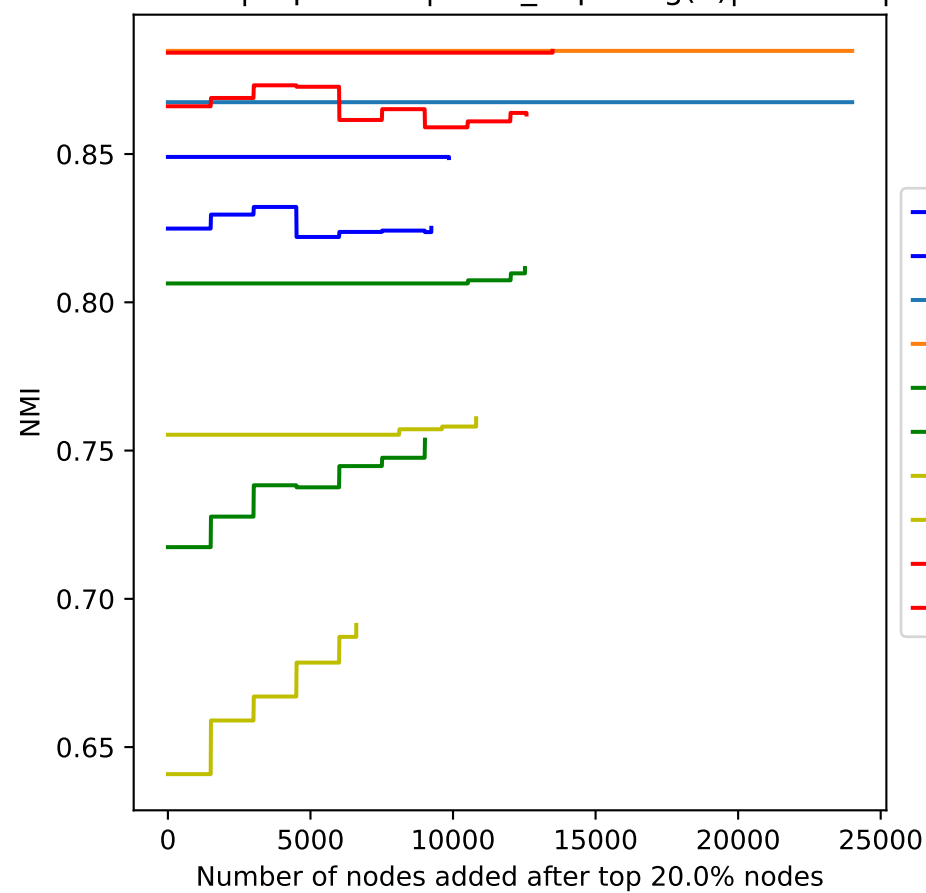
- | | |
|-----------------------------------|----------------------------------|
| ● FL 0.05 58.43% | ▲ FL 1 40.15% |
| ○ Lv+Vote+Lv FL 0.05 58.43% | △ Lv+Vote+Lv FL 1 40.15% |
| ● Louv_baseline 0.05 | ▲ Louv_baseline 1 |
| ● Leiden_baseline 0.05 | ▲ Leiden_baseline 1 |
| ● FL_ng 0.05 58.5% | ▲ FL_ng 1 38.43% |
| ○ Lv+Vote+Lv FL_ng 0.05 58.5% | △ Lv+Vote+Lv FL_ng 1 38.43% |
| ● FL_ng_pr 0.05 49.3% | ▲ FL_ng_pr 1 33.68% |
| ○ Lv+Vote+Lv FL_ng_pr 0.05 49.3% | △ Lv+Vote+Lv FL_ng_pr 1 33.68% |
| ● PageRank 0.05 69.05% | ▲ PageRank 1 48.86% |
| ○ Lv+Vote+Lv PageRank 0.05 69.05% | △ Lv+Vote+Lv PageRank 1 48.86% |
| ■ FL 0.25 50.8% | ● FL 1.5 37.47% |
| □ Lv+Vote+Lv FL 0.25 50.8% | ○ Lv+Vote+Lv FL 1.5 37.47% |
| ■ Louv_baseline 0.25 | ● Louv_baseline 1.5 |
| ■ Leiden_baseline 0.25 | ● Leiden_baseline 1.5 |
| ■ FL_ng 0.25 50.06% | ● FL_ng 1.5 36.69% |
| □ Lv+Vote+Lv FL_ng 0.25 50.06% | ○ Lv+Vote+Lv FL_ng 1.5 36.69% |
| ■ FL_ng_pr 0.25 42.02% | ● FL_ng_pr 1.5 31.45% |
| □ Lv+Vote+Lv FL_ng_pr 0.25 42.02% | ○ Lv+Vote+Lv FL_ng_pr 1.5 31.45% |
| ■ PageRank 0.25 61.92% | ● PageRank 1.5 43.93% |
| □ Lv+Vote+Lv PageRank 0.25 61.92% | ○ Lv+Vote+Lv PageRank 1.5 43.93% |
| ★ FL 0.5 46.21% | ◆ FL 5 32.45% |
| ★ Lv+Vote+Lv FL 0.5 46.21% | ◇ Lv+Vote+Lv FL 5 32.45% |
| ★ Louv_baseline 0.5 | ◆ Louv_baseline 5 |
| ★ Leiden_baseline 0.5 | ◆ Leiden_baseline 5 |
| ★ FL_ng 0.5 42.58% | ◆ FL_ng 5 31.27% |
| ★ Lv+Vote+Lv FL_ng 0.5 42.58% | ◇ Lv+Vote+Lv FL_ng 5 31.27% |
| ★ FL_ng_pr 0.5 37.59% | ◆ FL_ng_pr 5 28.53% |
| ★ Lv+Vote+Lv FL_ng_pr 0.5 37.59% | ◇ Lv+Vote+Lv FL_ng_pr 5 28.53% |
| ★ PageRank 0.5 55.11% | ◆ PageRank 5 35.05% |
| ★ Lv+Vote+Lv PageRank 0.5 55.11% | ◇ Lv+Vote+Lv PageRank 5 35.05% |

MNIST | top 20.0%| Num_hops: log(n)|res: 0.05|



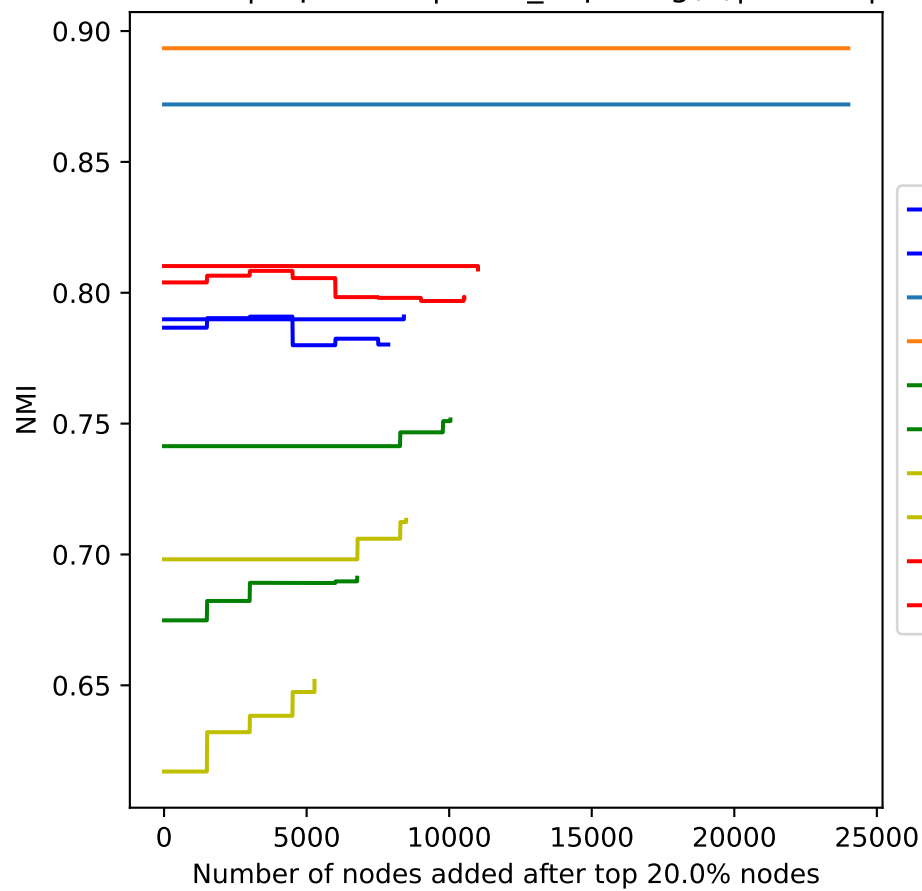
- FL|58.43% nodes
- FLx2|60.42% nodes
- Louv_baseline
- Leiden_baseline
- FL_ng|58.5% nodes
- FL_ngx2|77.63% nodes
- FL_ng_pr|49.3% nodes
- FL_ng_prx2|75.43% nodes
- PageRank|69.05% nodes
- PageRankx2|70.58% nodes

MNIST | top 20.0%| Num_hops: log(n)|res: 0.25|



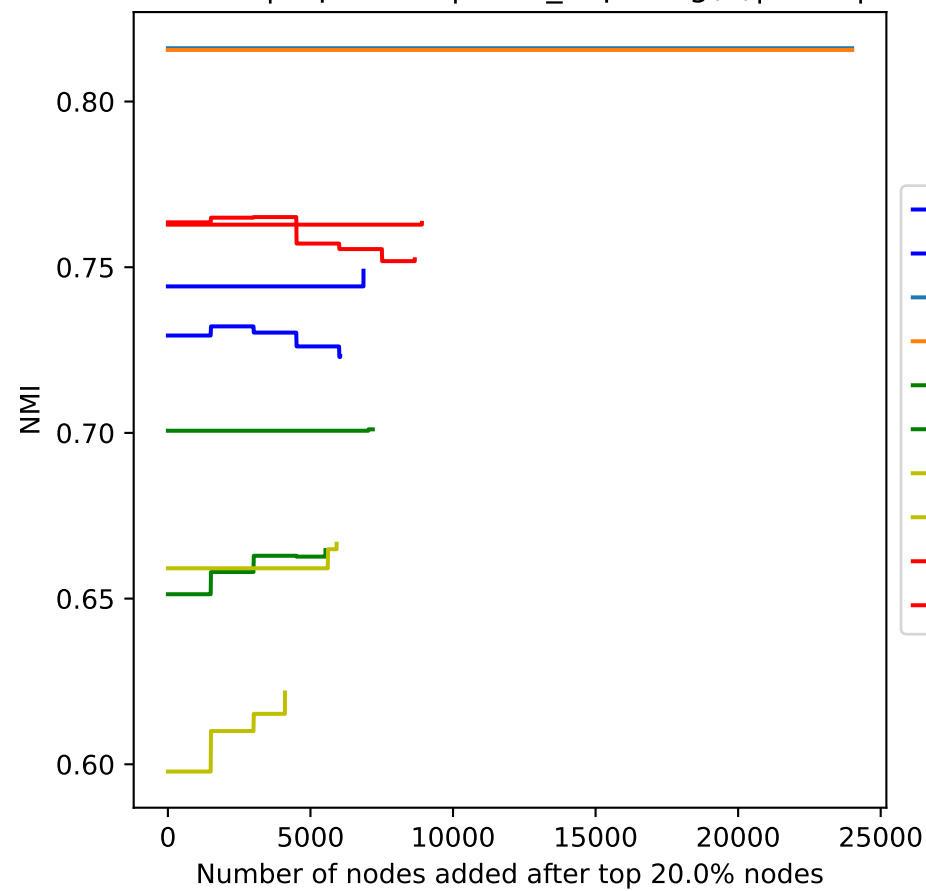
- FL|50.8% nodes
- FLx2|52.86% nodes
- Louv_baseline
- Leiden_baseline
- FL_ng|50.06% nodes
- FL_ngx2|61.74% nodes
- FL_ng_pr|42.02% nodes
- FL_ng_prx2|56.03% nodes
- PageRank|61.92% nodes
- PageRankx2|64.97% nodes

MNIST | top 20.0%| Num_hops: log(n)|res: 0.5|



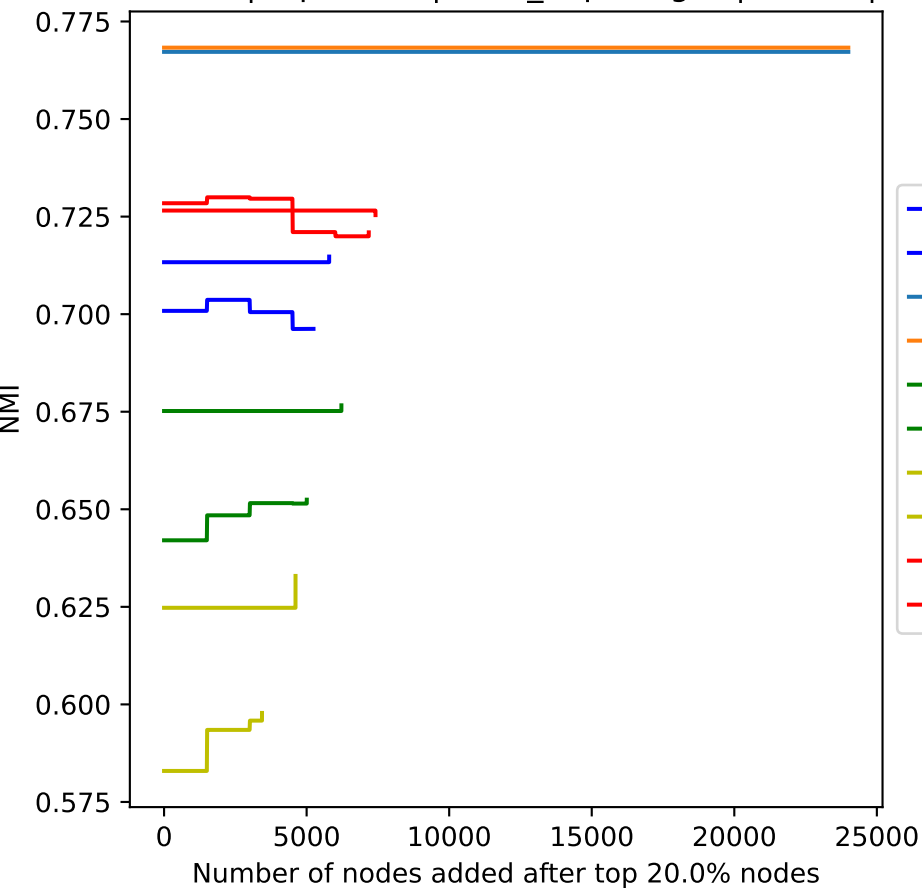
- FL|46.21% nodes
- FLx2|48.04% nodes
- Louv_baseline
- Leiden_baseline
- FL_ng|42.58% nodes
- FL_ngx2|53.48% nodes
- FL_ng_pr|37.59% nodes
- FL_ng_prx2|48.3% nodes
- PageRank|55.11% nodes
- PageRankx2|56.7% nodes

MNIST | top 20.0%| Num_hops: log(n)|res: 1|



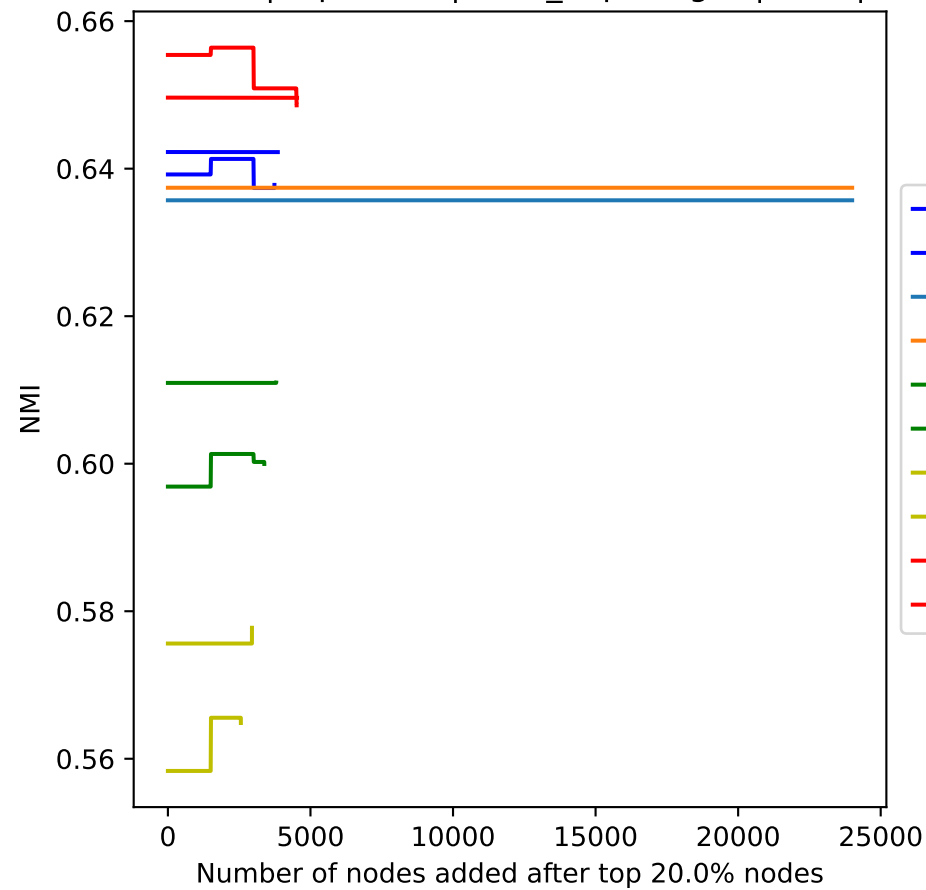
- FL|40.15% nodes
- FLx2|42.86% nodes
- Louv_baseline
- Leiden_baseline
- FL_ng|38.43% nodes
- FL_ngx2|43.95% nodes
- FL_ng_pr|33.68% nodes
- FL_ng_prx2|39.72% nodes
- PageRank|48.86% nodes
- PageRankx2|49.69% nodes

MNIST | top 20.0%| Num_hops: log(n)|res: 1.5|



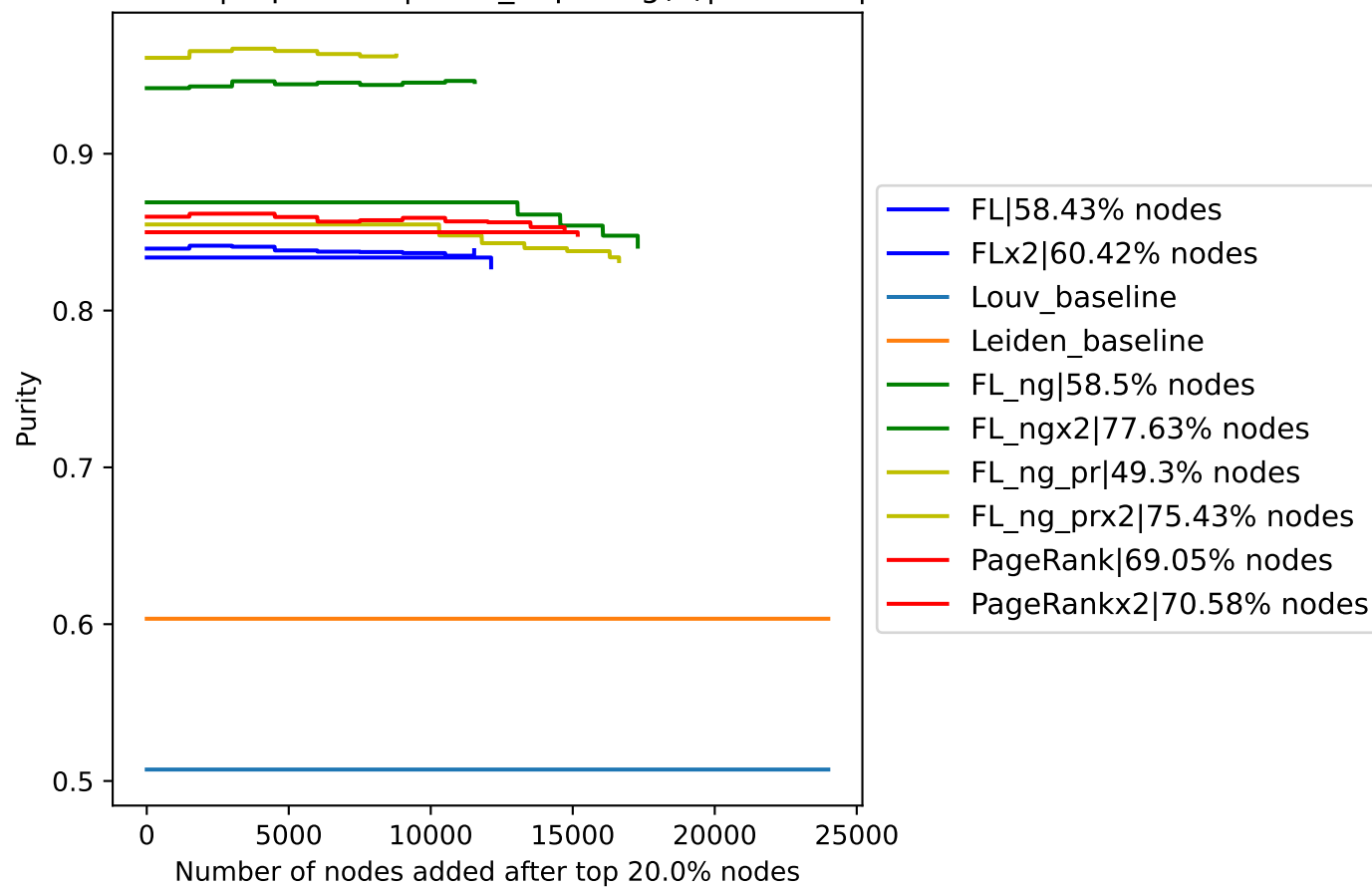
- FL|37.47% nodes
- FLx2|39.3% nodes
- Louv_baseline
- Leiden_baseline
- FL_ng|36.69% nodes
- FL_ngx2|40.73% nodes
- FL_ng_pr|31.45% nodes
- FL_ng_prx2|35.37% nodes
- PageRank|43.93% nodes
- PageRankx2|44.72% nodes

MNIST | top 20.0%| Num_hops: log(n)|res: 5|

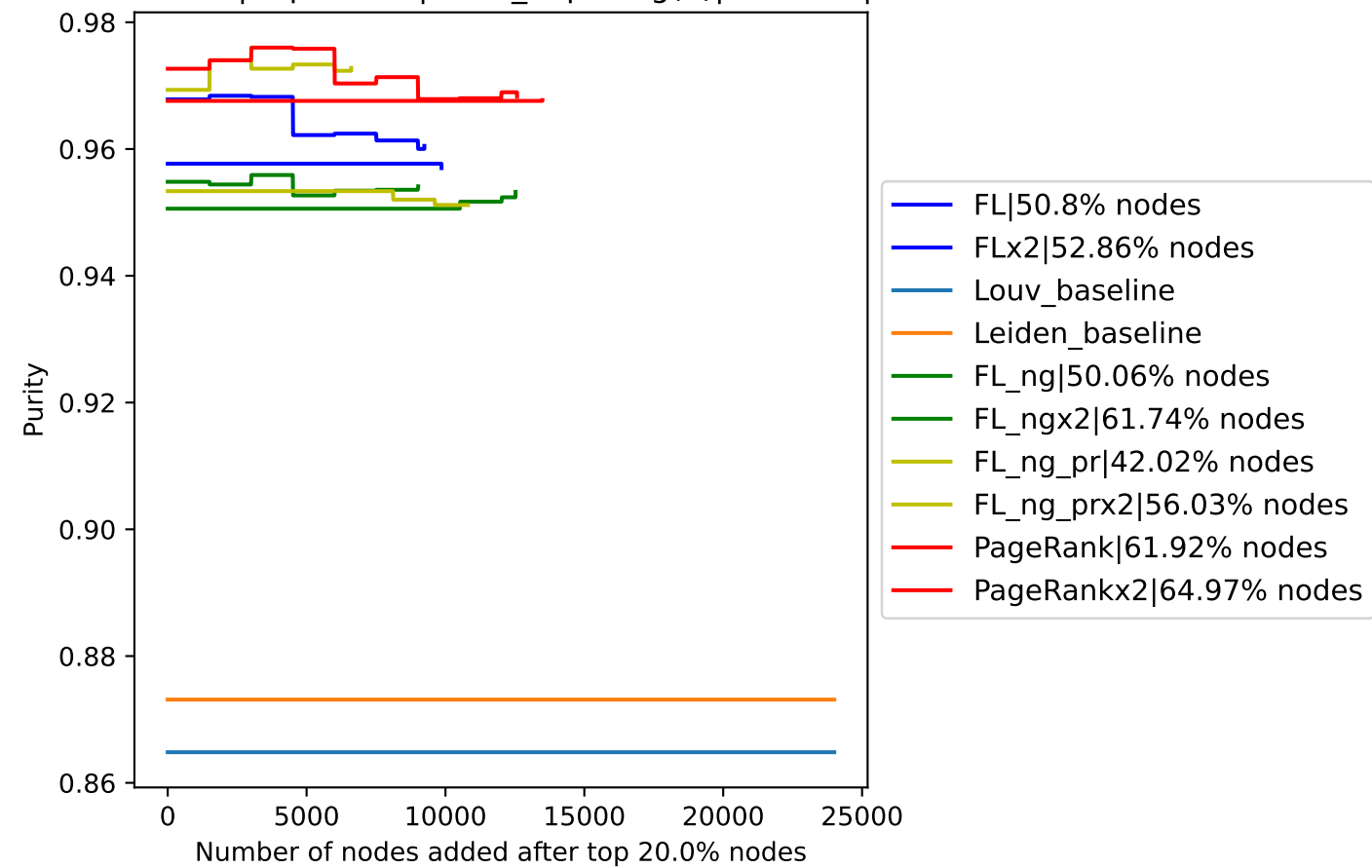


- FL|32.45% nodes
- FLx2|32.85% nodes
- Louv_baseline
- Leiden_baseline
- FL_ng|31.27% nodes
- FL_ngx2|32.66% nodes
- FL_ng_pr|28.53% nodes
- FL_ng_prx2|29.82% nodes
- PageRank|35.05% nodes
- PageRankx2|35.1% nodes

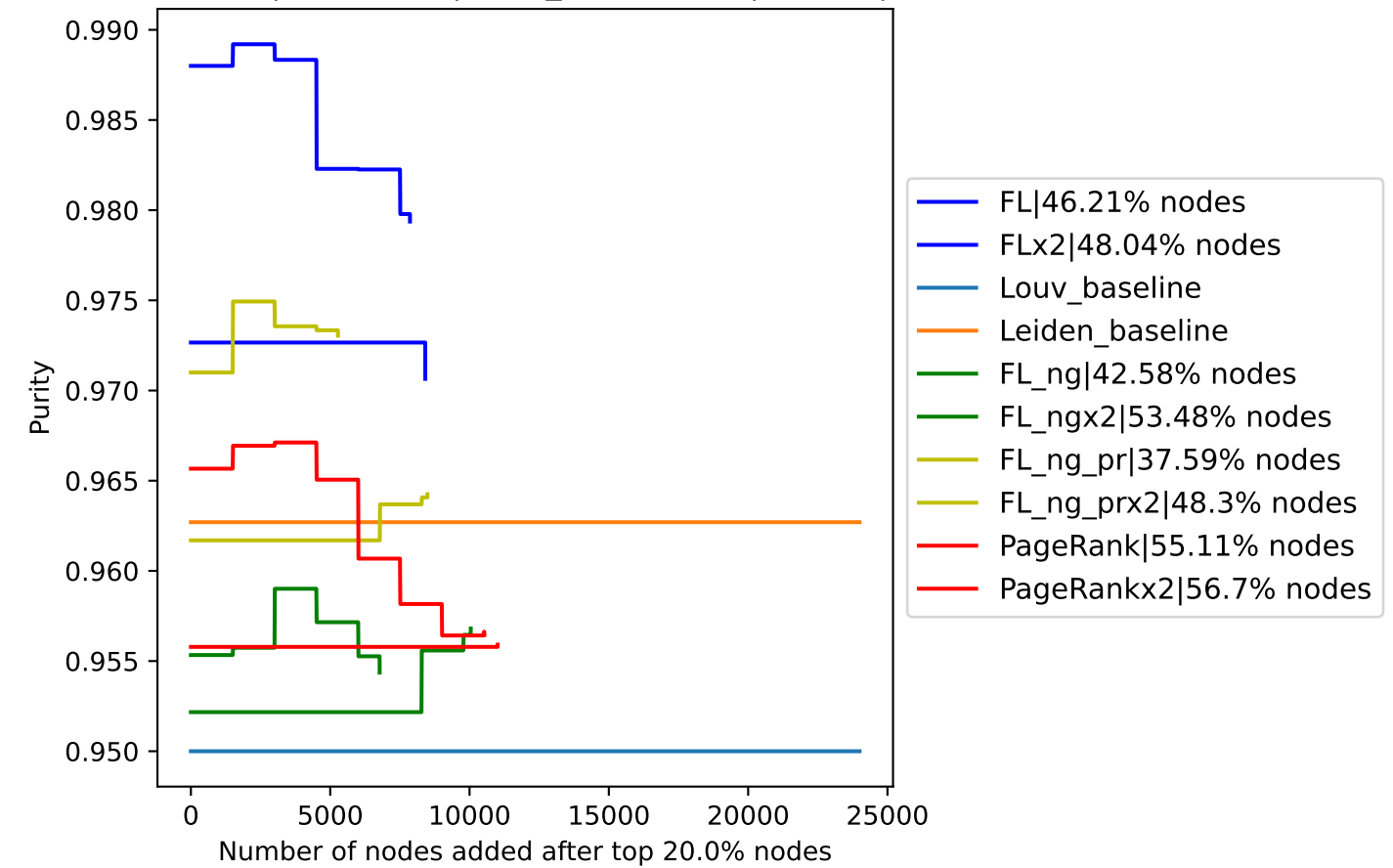
MNIST | top 20.0%| Num_hops: log(n)|res: 0.05|



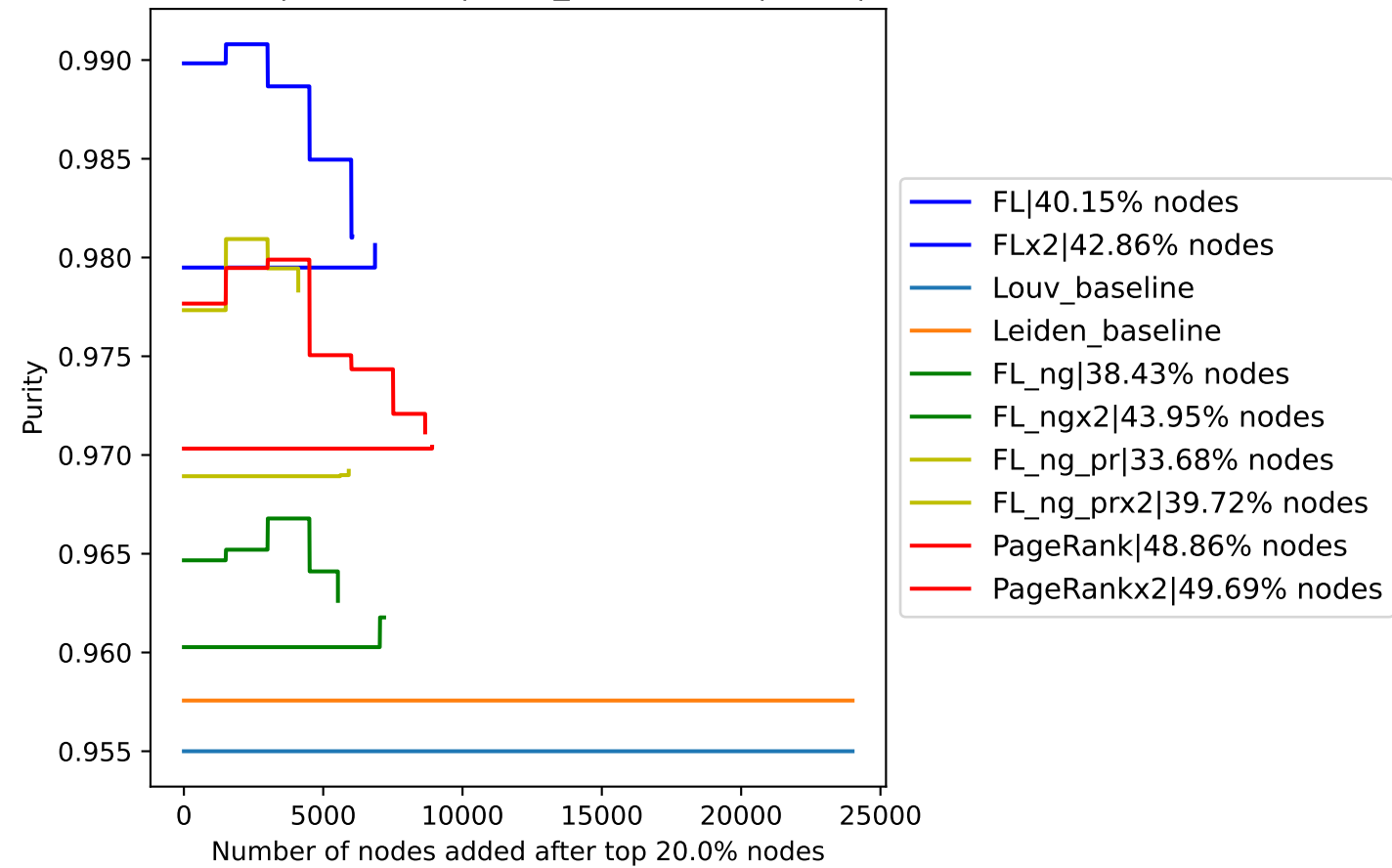
MNIST | top 20.0%| Num_hops: log(n)|res: 0.25|



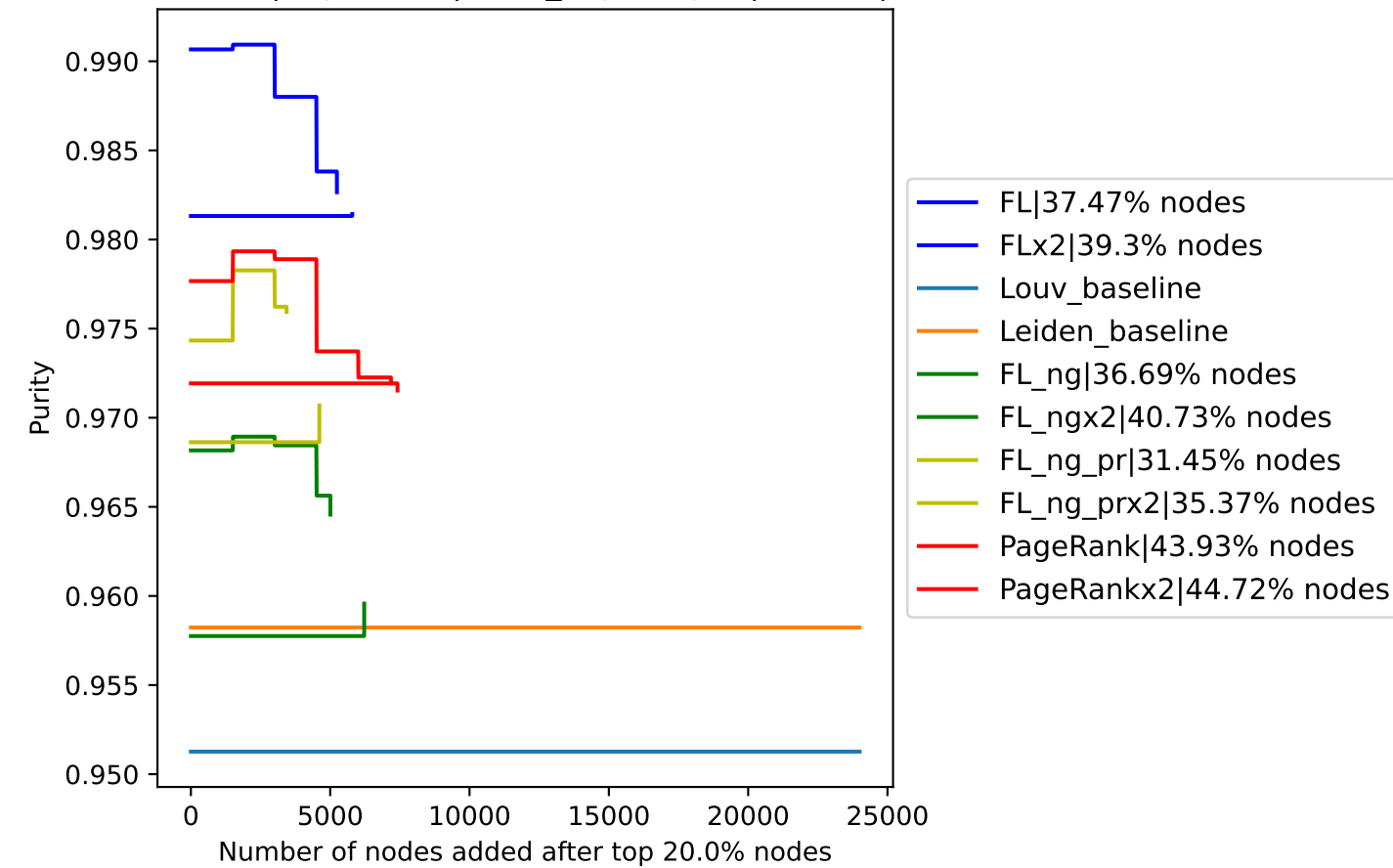
MNIST | top 20.0%| Num_hops: log(n)|res: 0.5|



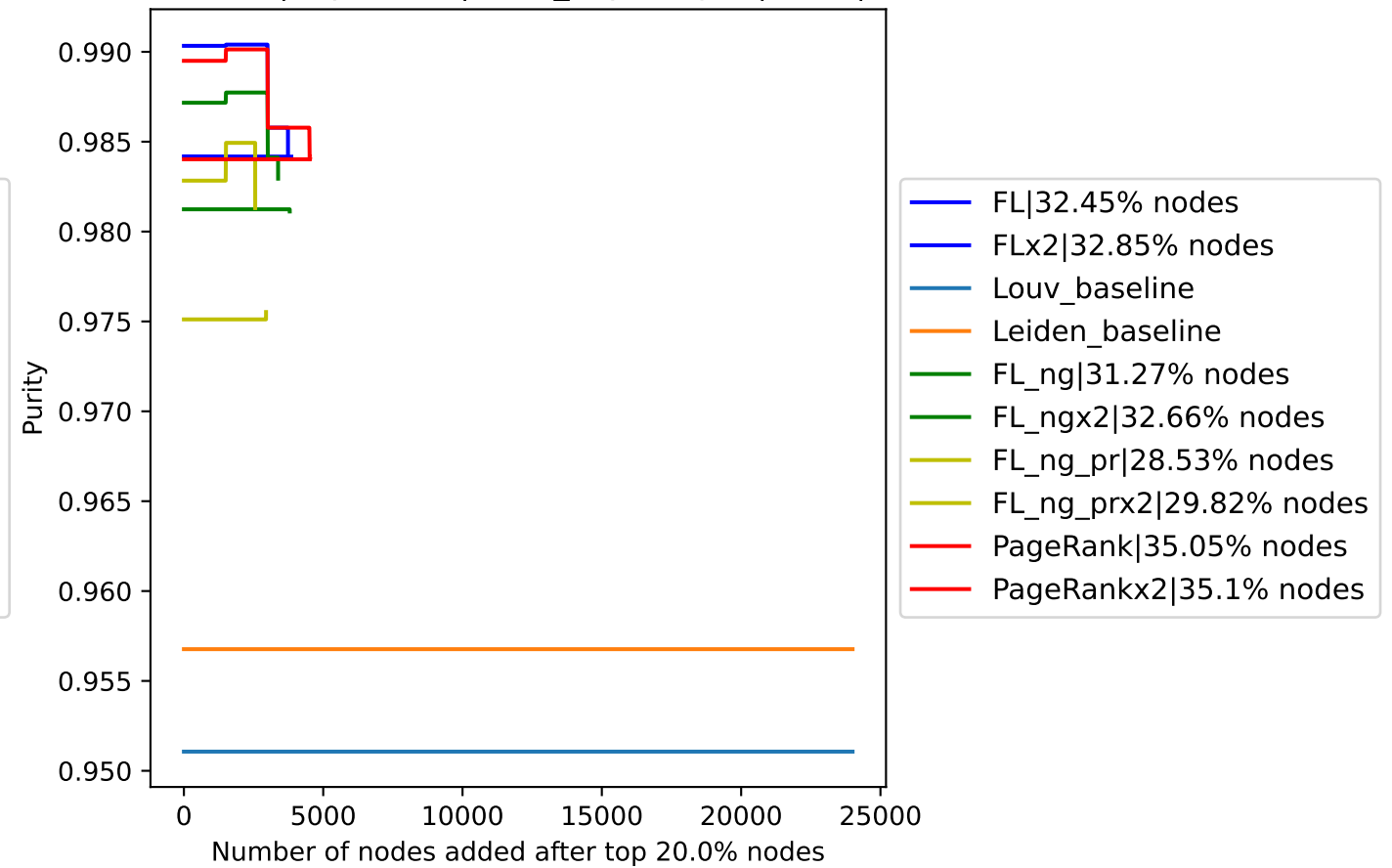
MNIST | top 20.0%| Num_hops: log(n)|res: 1|



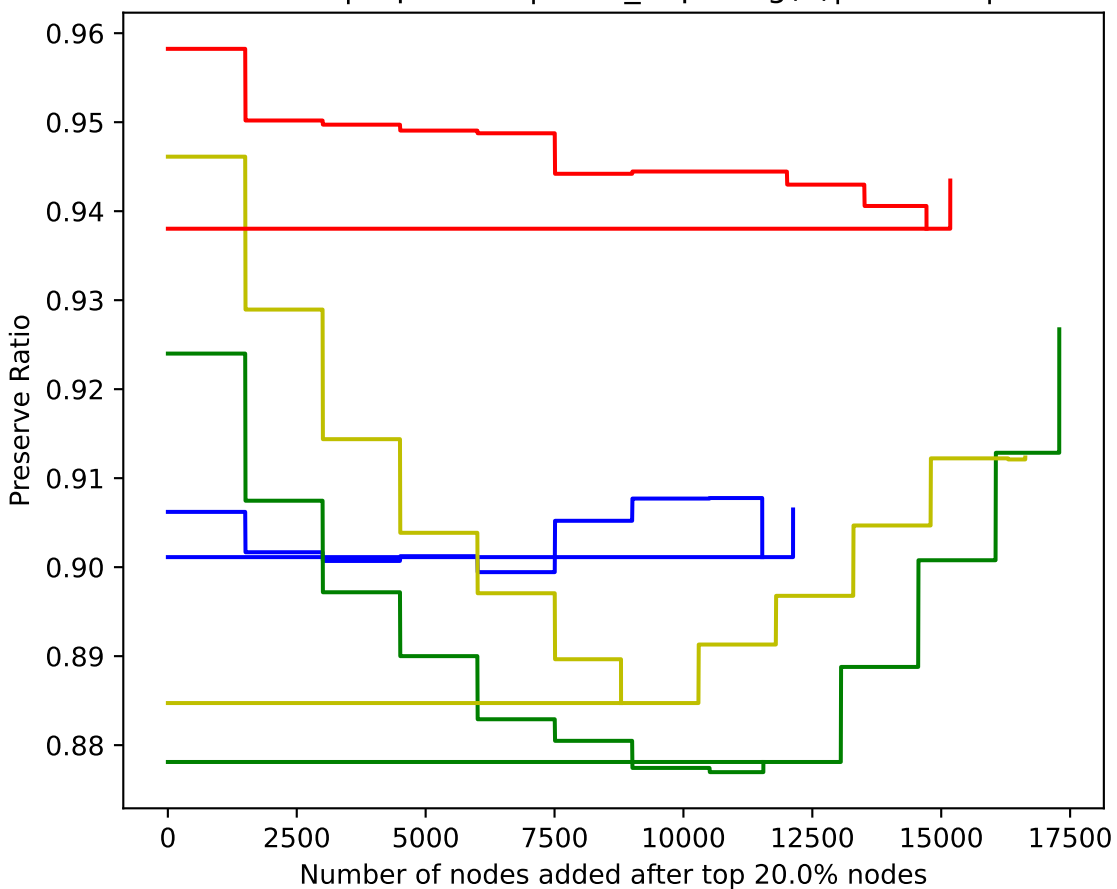
MNIST | top 20.0%| Num_hops: log(n)|res: 1.5|



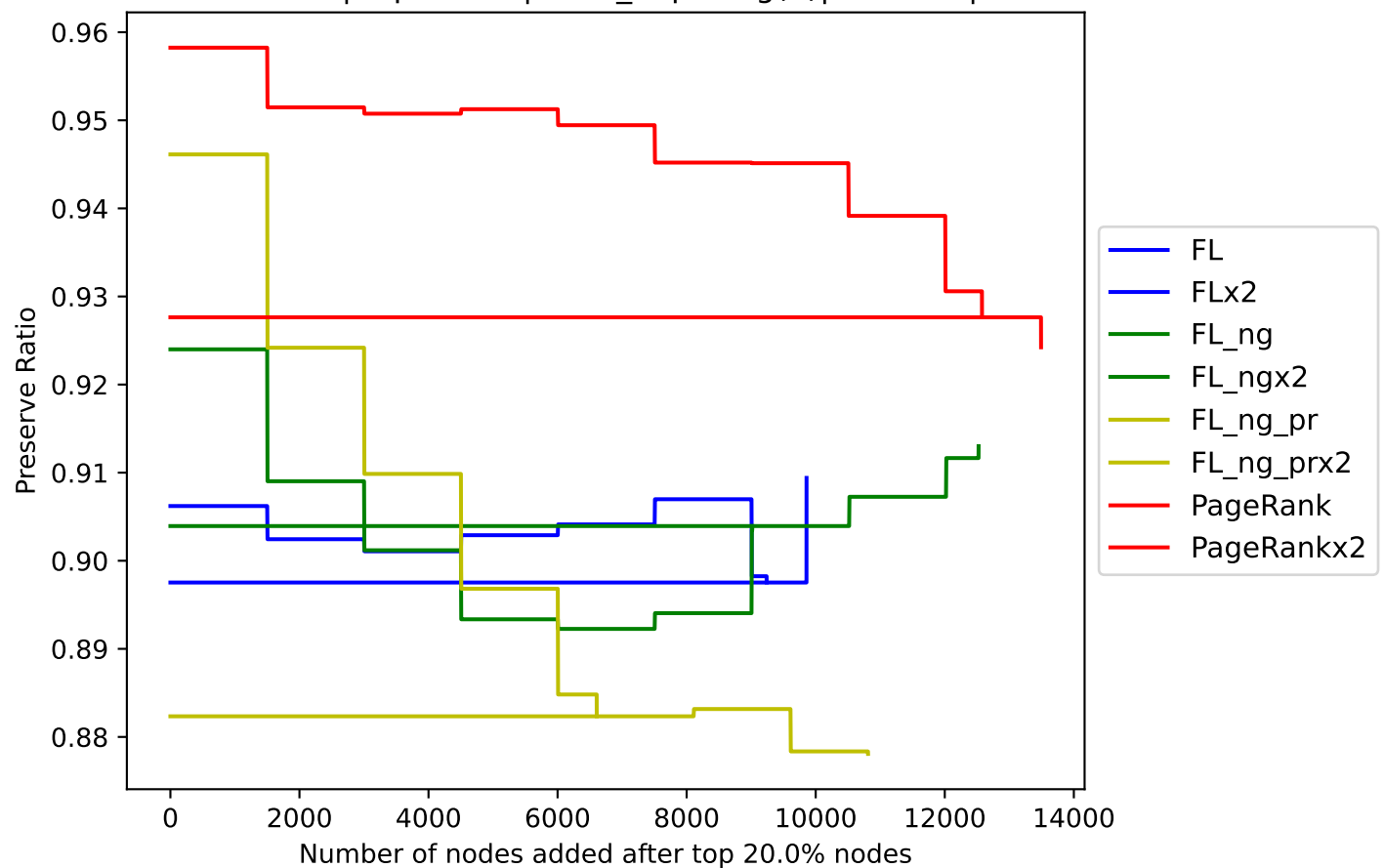
MNIST | top 20.0%| Num_hops: log(n)|res: 5|



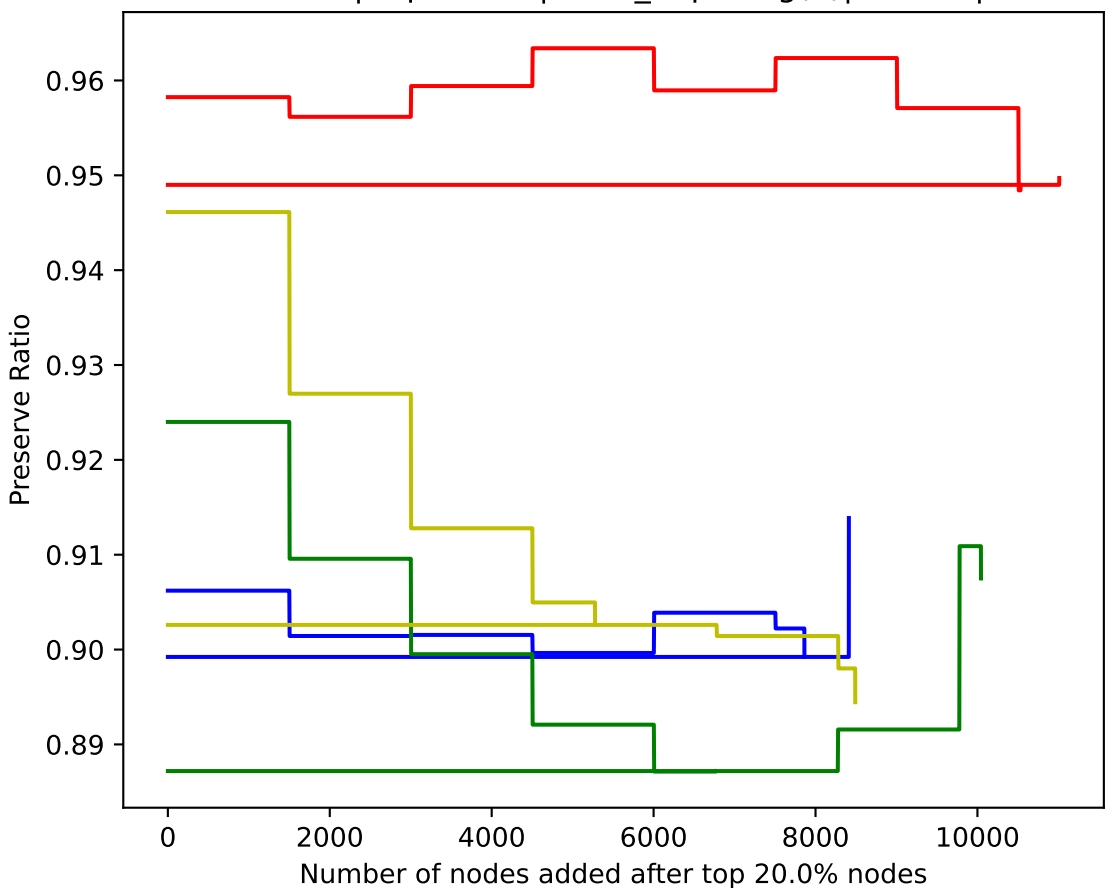
MNIST | top 20.0%| Num_hops: log(n)|res: 0.05|



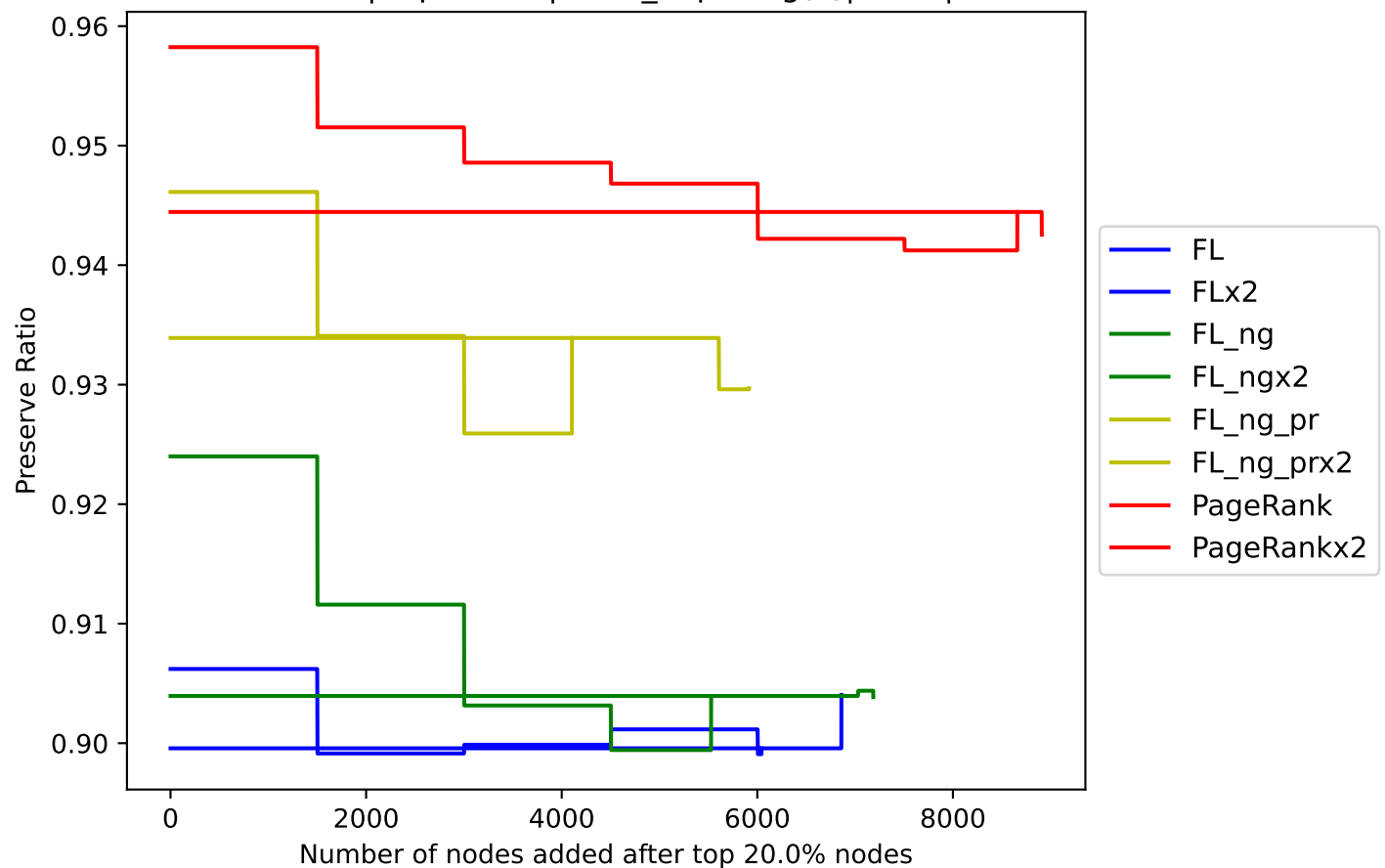
MNIST | top 20.0%| Num_hops: log(n)|res: 0.25|



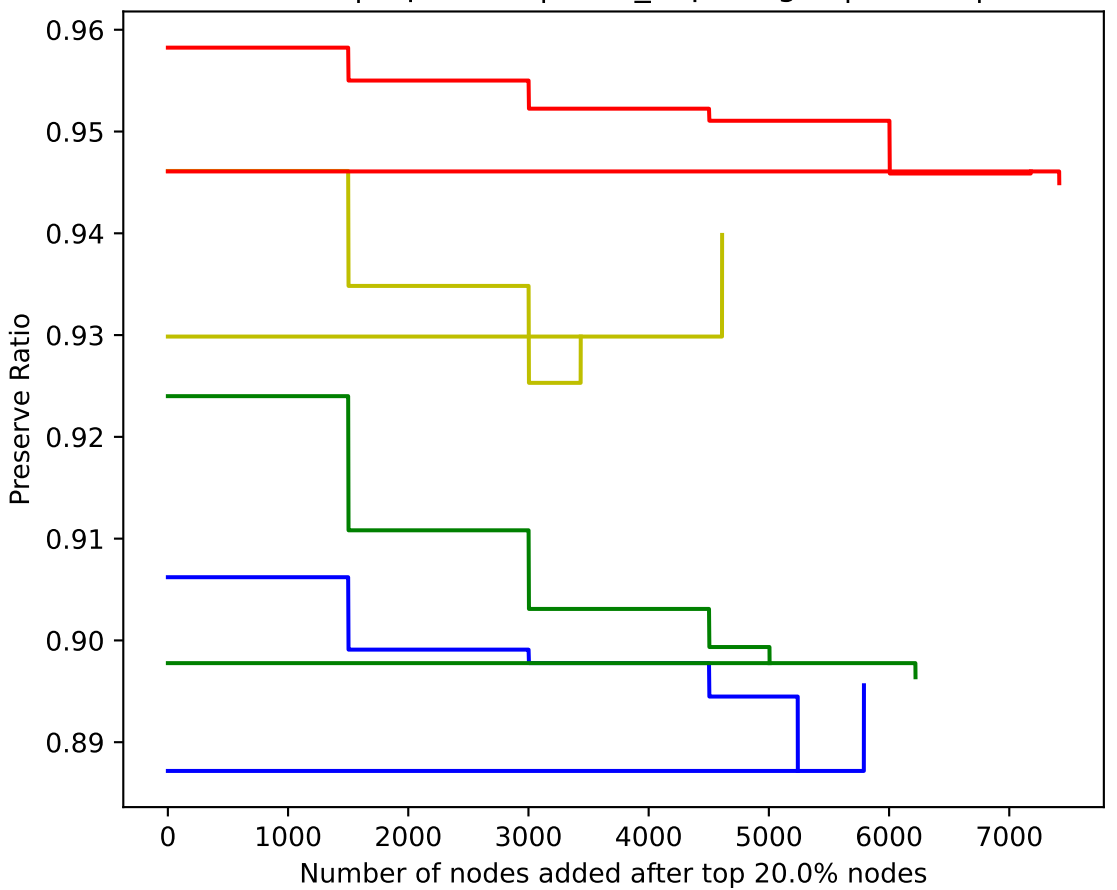
MNIST | top 20.0%| Num_hops: log(n)|res: 0.5|



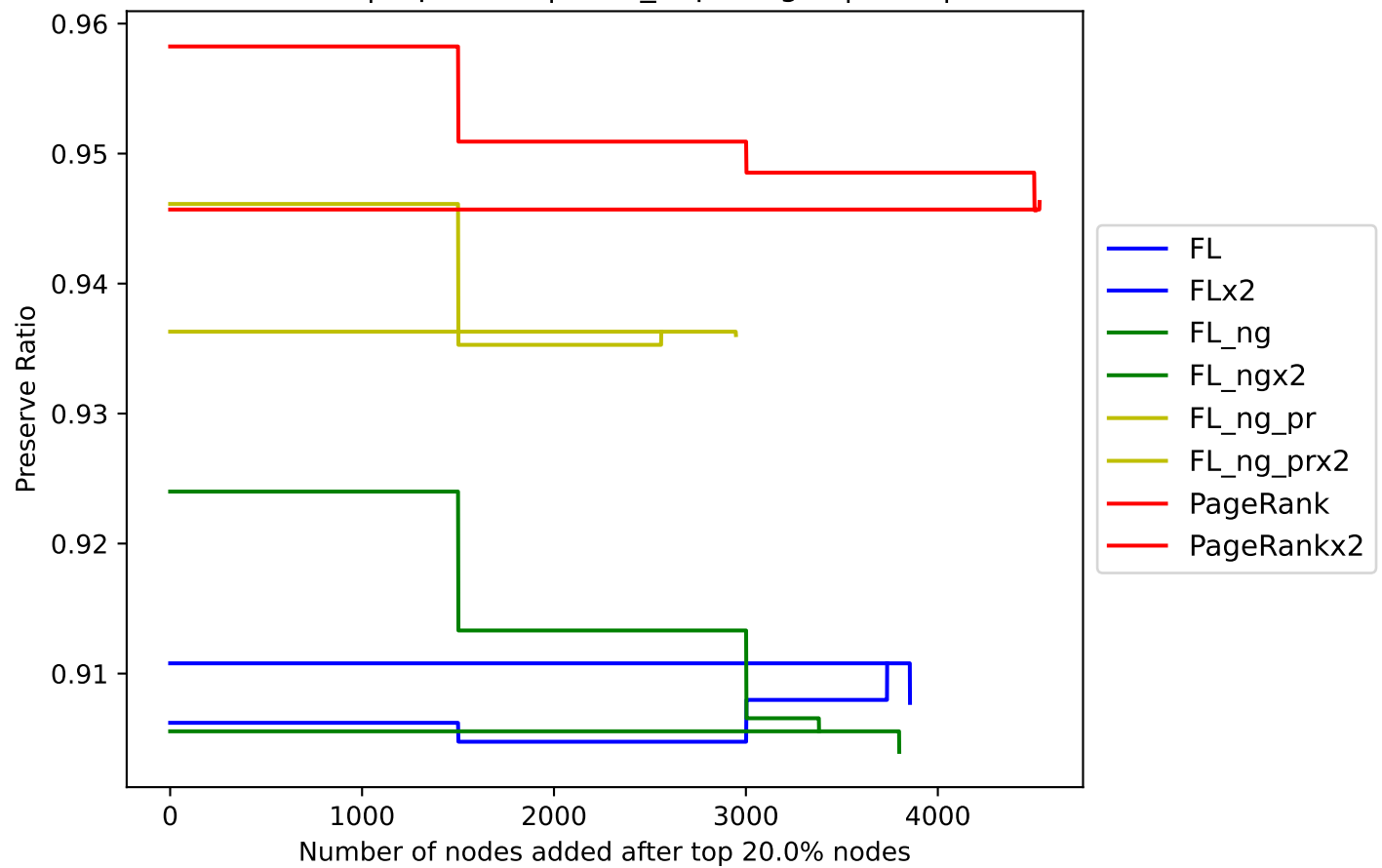
MNIST | top 20.0%| Num_hops: log(n)|res: 1|



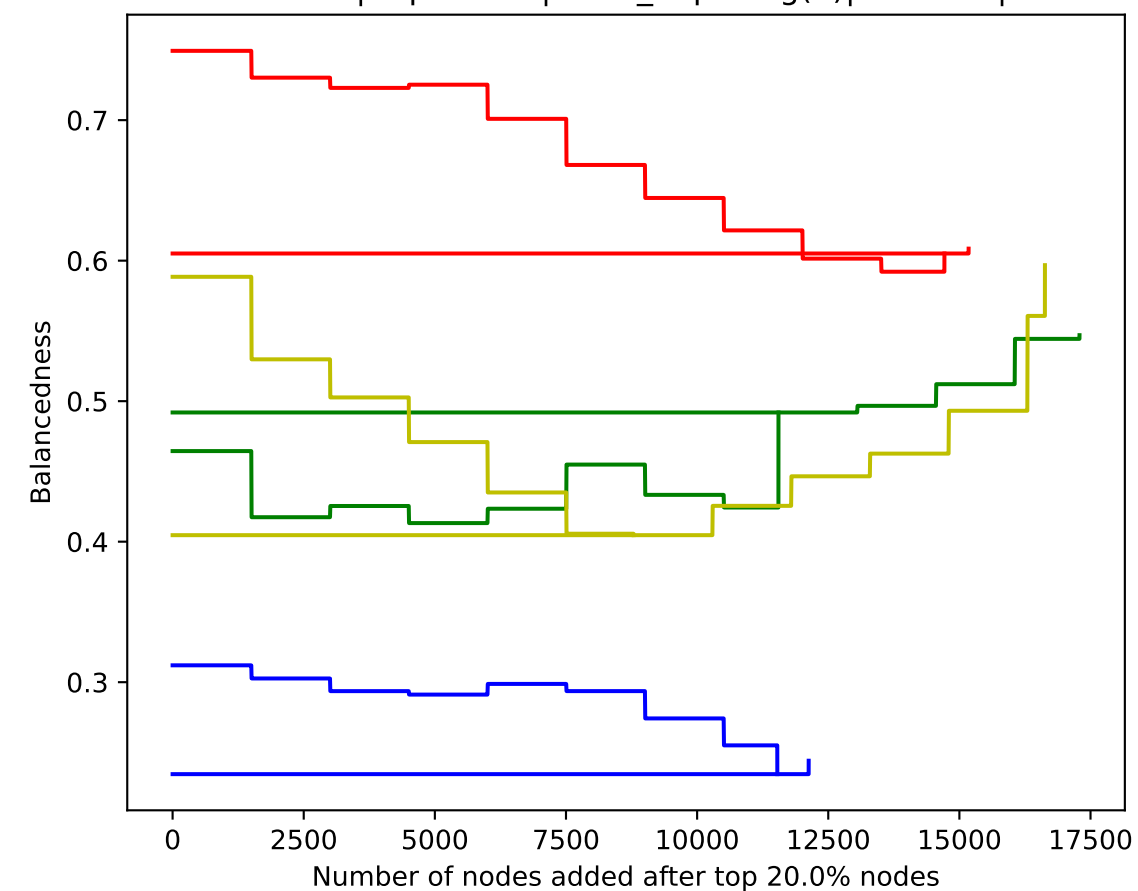
MNIST | top 20.0%| Num_hops: log(n)|res: 1.5|



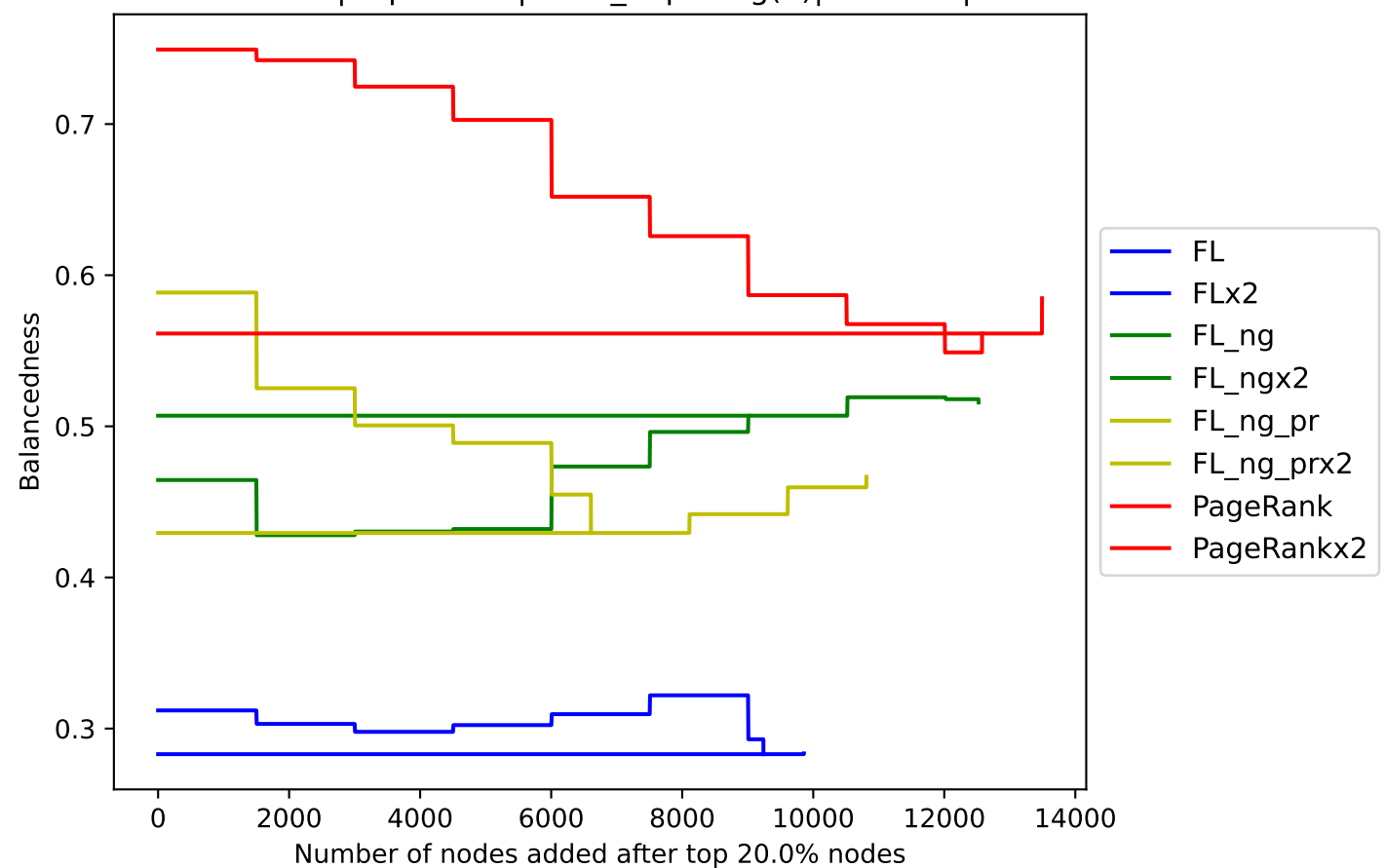
MNIST | top 20.0%| Num_hops: log(n)|res: 5|



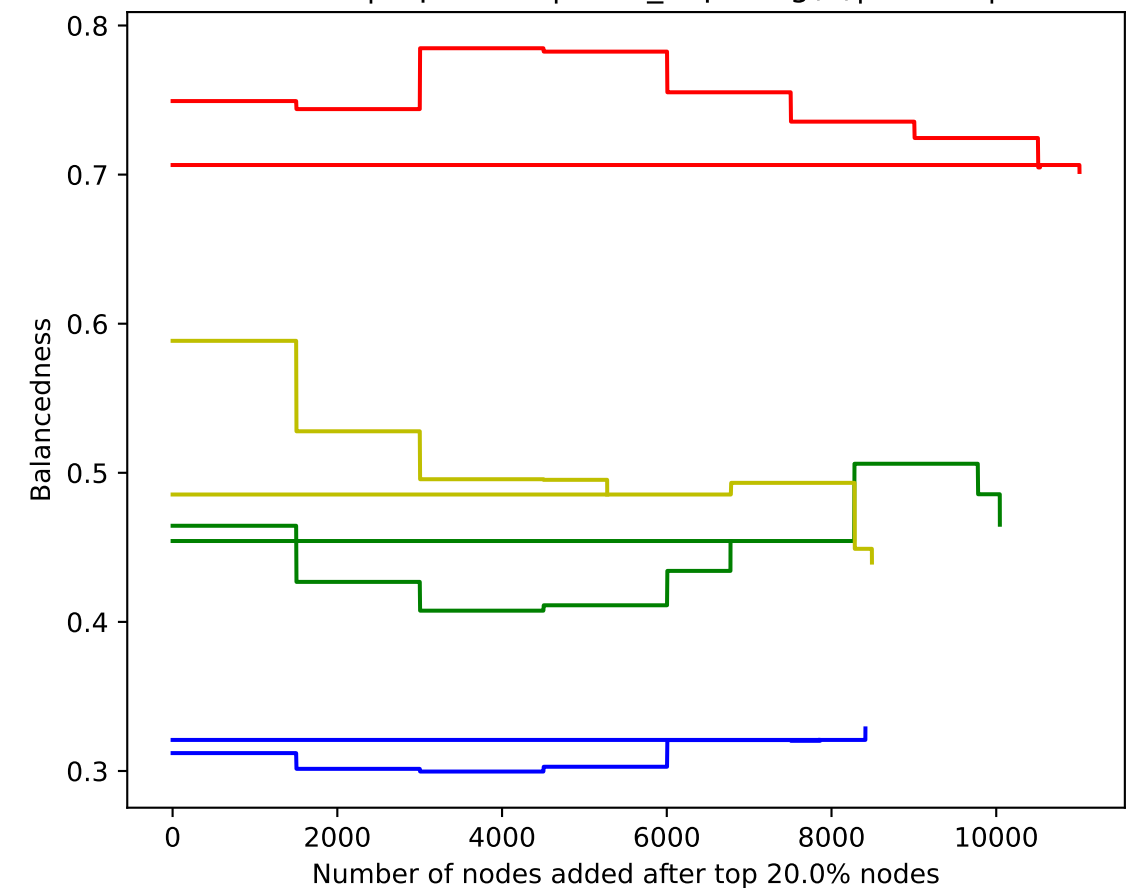
MNIST | top 20.0%| Num_hops: log(n)|res: 0.05|



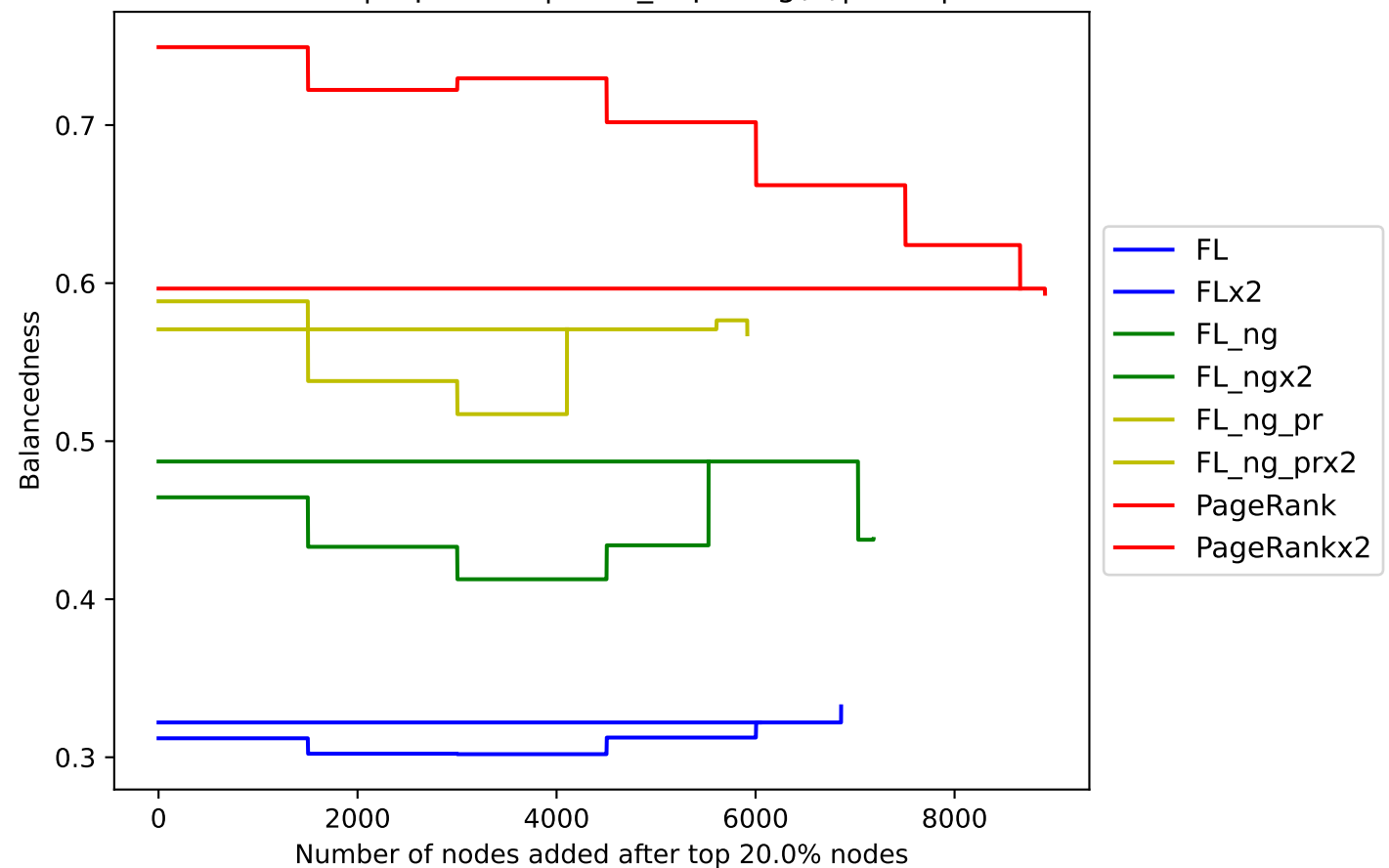
MNIST | top 20.0%| Num_hops: log(n)|res: 0.25|



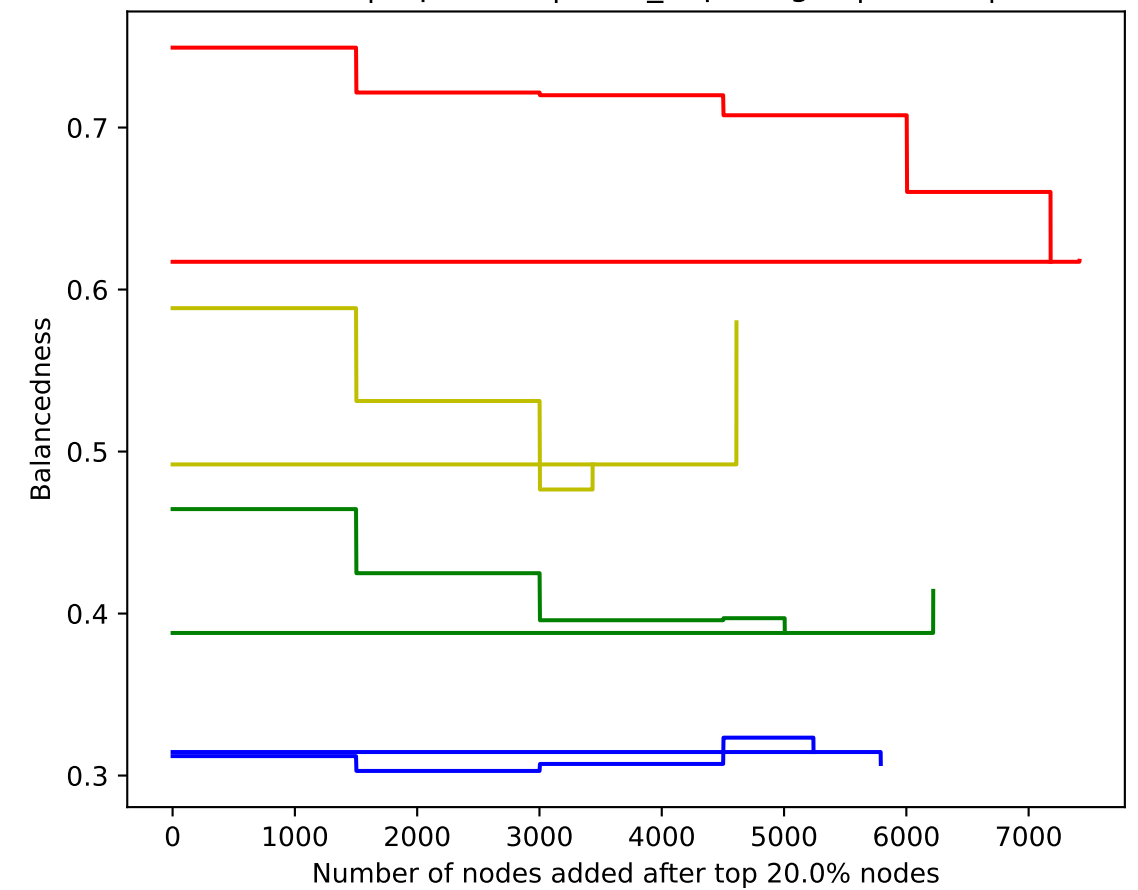
MNIST | top 20.0%| Num_hops: log(n)|res: 0.5|



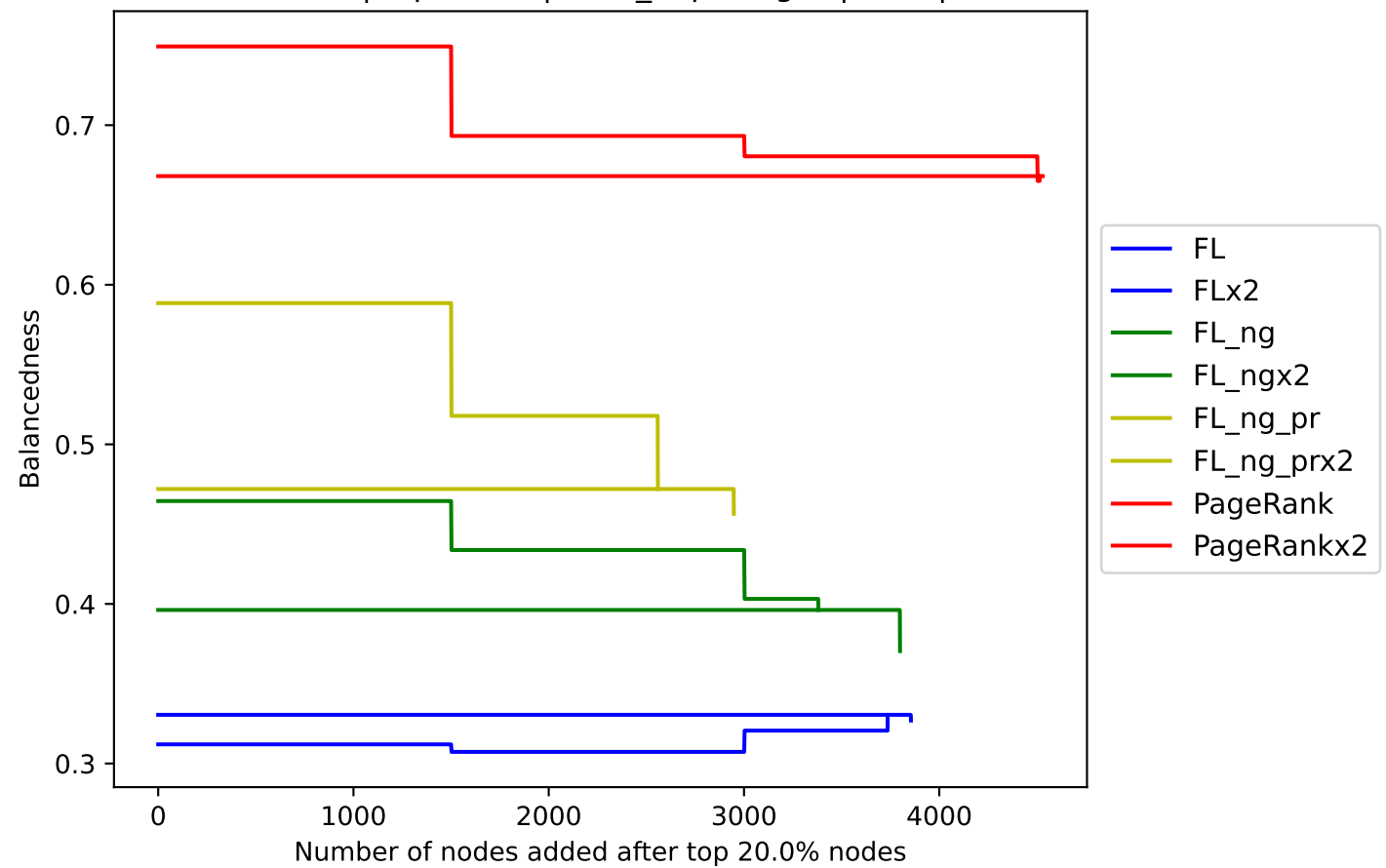
MNIST | top 20.0%| Num_hops: log(n)|res: 1|



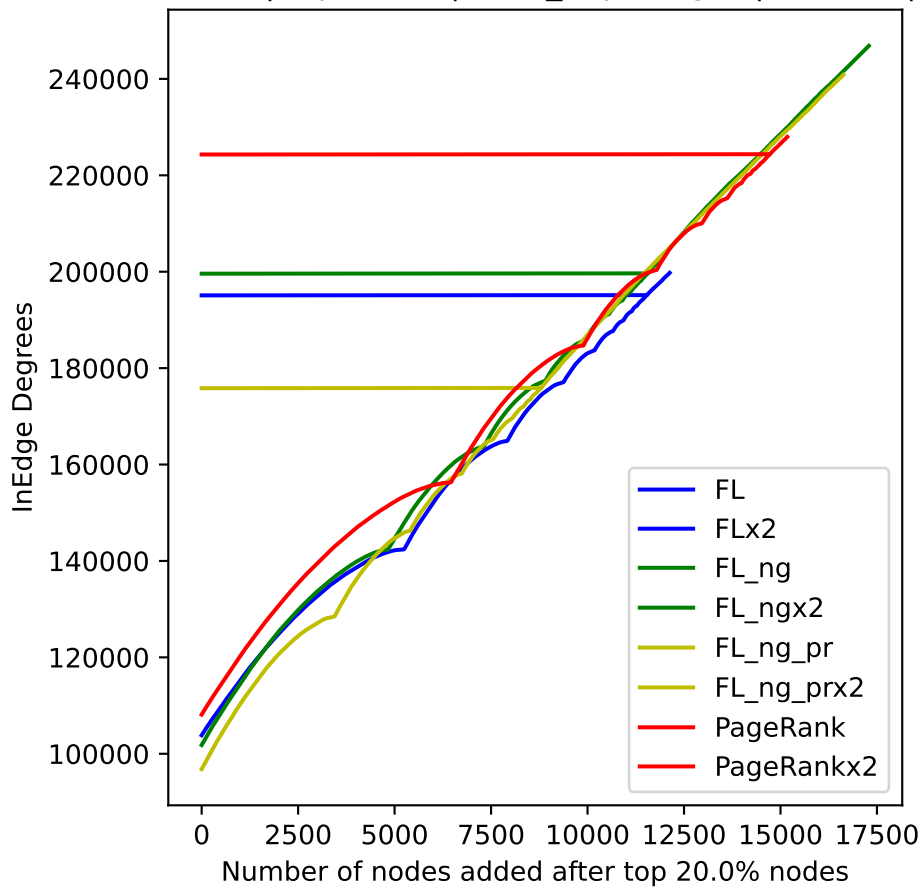
MNIST | top 20.0%| Num_hops: log(n)|res: 1.5|



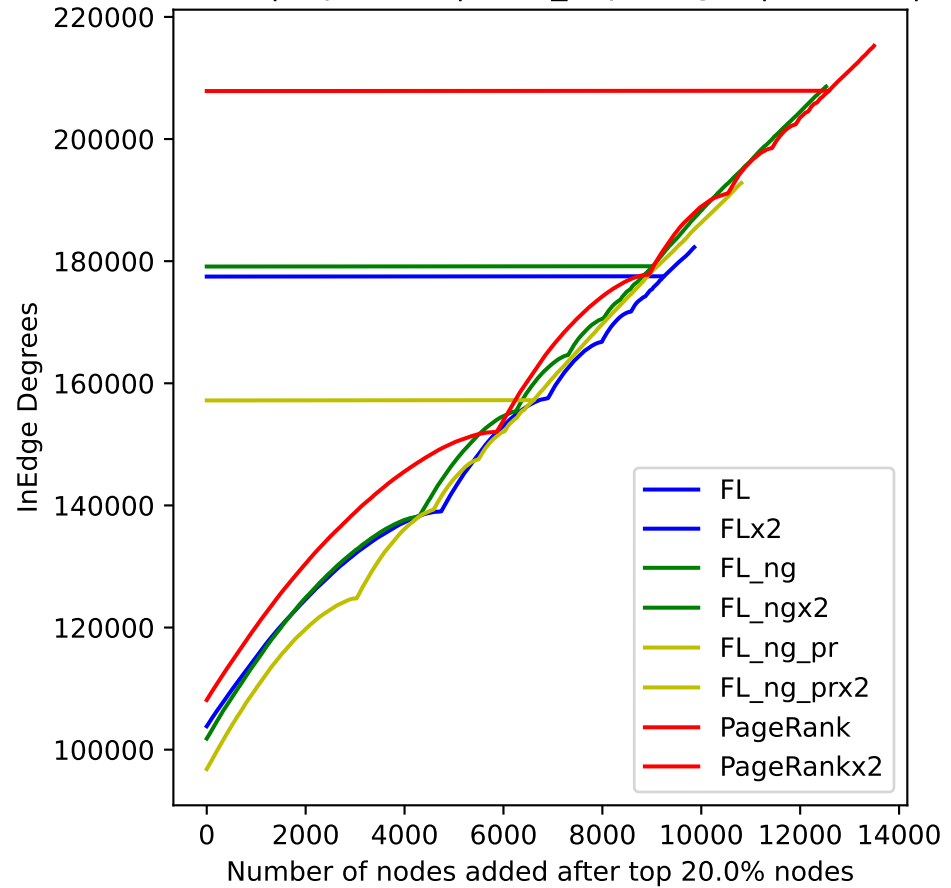
MNIST | top 20.0%| Num_hops: log(n)|res: 5|



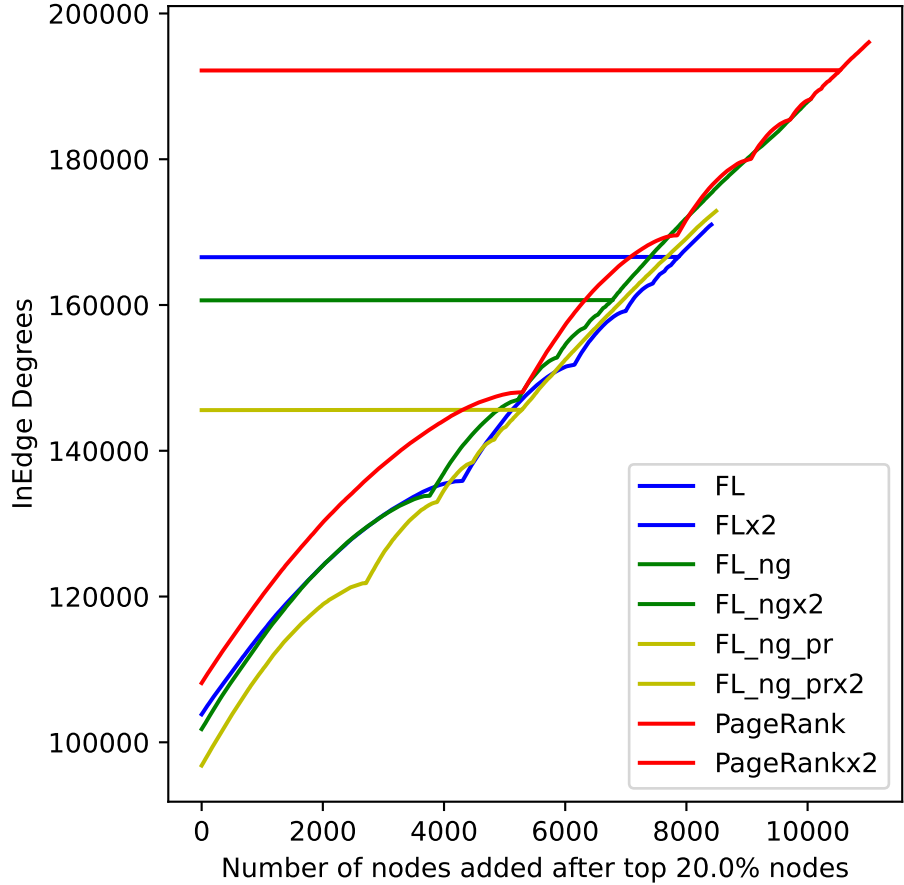
MNIST | top 20.0%| Num_hops: log(n)|res: 0.05|



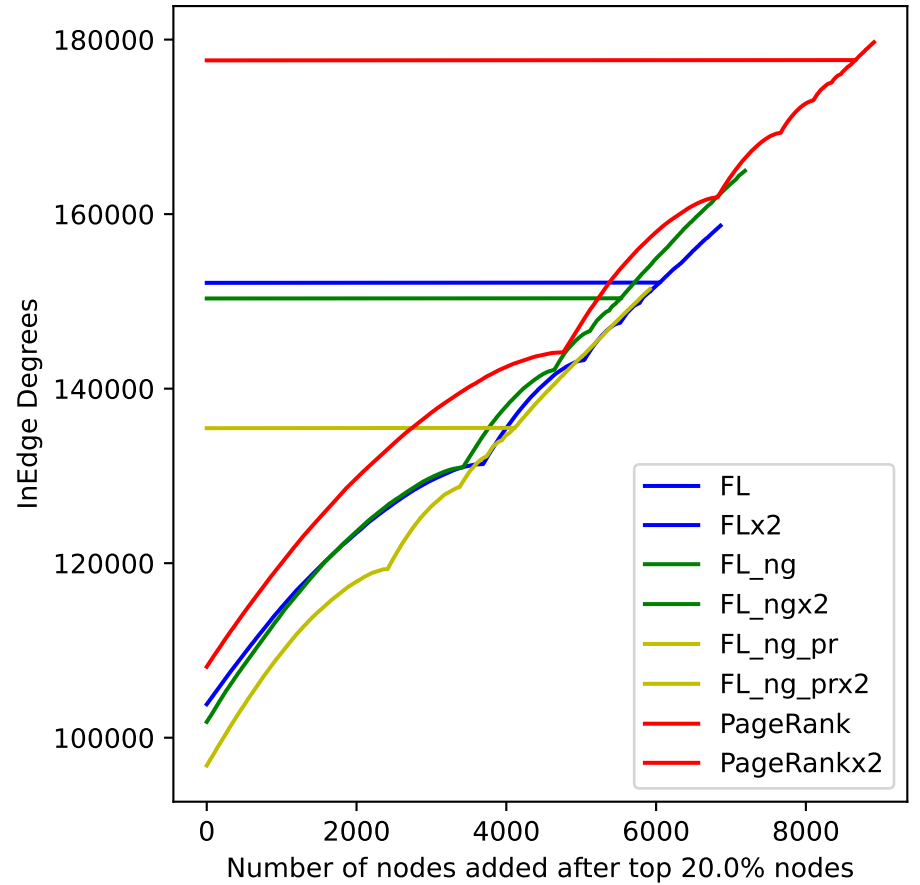
MNIST | top 20.0%| Num_hops: log(n)|res: 0.25|



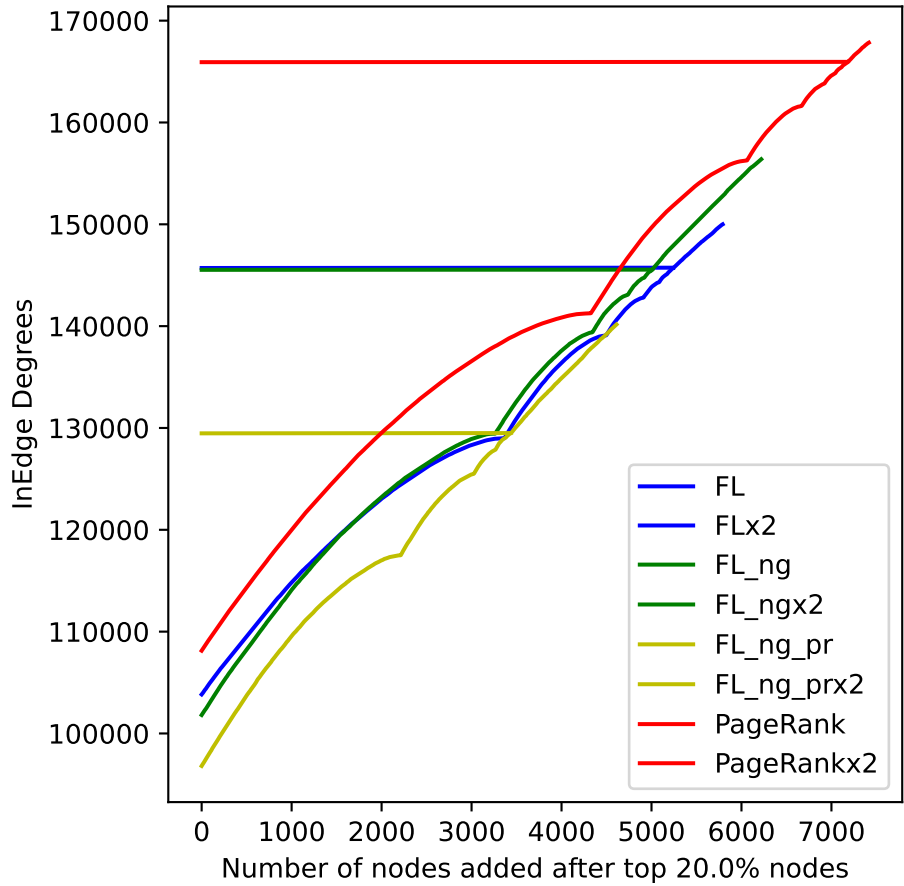
MNIST | top 20.0%| Num_hops: log(n)|res: 0.5|



MNIST | top 20.0%| Num_hops: log(n)|res: 1|



MNIST | top 20.0%| Num_hops: log(n)|res: 1.5|



MNIST | top 20.0%| Num_hops: log(n)|res: 5|

