

| Model                     | Additional Information | WN18       |             | FB15k     |             |
|---------------------------|------------------------|------------|-------------|-----------|-------------|
|                           |                        | Mean Rank  | Hits@10     | Mean Rank | Hits@10     |
| SE                        | No                     | 985        | 80.5        | 162       | 39.8        |
| Unstructured              | No                     | 304        | 38.2        | 979       | 6.3         |
| TransE                    | No                     | 251        | 89.2        | 125       | 47.1        |
| TransH                    | No                     | 303        | 86.7        | 87        | 64.4        |
| TransR                    | No                     | 225        | 92.0        | 77        | 68.7        |
| CTransR                   | No                     | 218        | 92.3        | 75        | 70.2        |
| KG2E                      | No                     | 348        | 93.2        | 59        | 74.0        |
| TransD                    | No                     | 212        | 92.2        | 91        | 77.3        |
| TATEC                     | No                     | -          | -           | <b>58</b> | 76.7        |
| NTN                       | No                     | -          | 66.1        | -         | 41.4        |
| DISTMULT                  | No                     | -          | 94.2        | -         | 57.7        |
| STransE                   | No                     | 206 (244)  | 93.4 (94.7) | 69        | 79.7        |
| ITransF                   | No                     | <b>205</b> | 94.2        | 65        | 81.0        |
| ITransF (domain sampling) | No                     | 223        | <b>95.2</b> | 77        | <b>81.4</b> |
| rTransE                   | Path                   | -          | -           | 50        | 76.2        |
| pTransE                   | Path                   | -          | -           | 58        | 84.6        |
| NLFeat                    | Node + Link Features   | -          | 94.3        | -         | 87.0        |
| Random Walk               | Path                   | -          | 94.8        | -         | 74.7        |
| IRN                       | External Memory        | 249        | 95.3        | 38        | 92.7        |