

KRACKHARDT-HIGH-TECH MULTIPLEX NETWORK

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Reference and Acknowledgments

This README file accompanies the dataset representing the multiplex social network of the managers of a high-tech company. If you use this dataset in your work either for analysis or for visualization, you should acknowledge/cite the following papers:

```
"Cognitive social structures"  
D. Krackhardt  
Social Networks (1987), 9, 104-134
```

Description of the dataset

The multiplex social network consists of 3 kinds of relationships (Advice, Friendship and "Reports to") between managers of a high-tech company.

There are 21 nodes in total, labelled with integer ID between 1 and 21, with 312 connections. The multiplex is directed and unweighted, stored as edges list in the file

```
Krackhardt-High-Tech_multiplex.edges
```

with format

```
layerID nodeID nodeID weight
```

(Note: all weights are set to 1)

The IDs of all layers are stored in

```
Krackhardt-High-Tech_layers.txt
```

The IDs of nodes can be found in the file

```
Krackhardt-High-Tech_nodes.txt
```

The values for the 5 columns (attributes) are

1. node id
2. age (in years)
3. tenure (length of service or tenure in years)
4. level (in the corporate hierarchy; 1 = CEO, 2 = Vice President, 3 = manager)
5. deparment (coded 1,2,3,4 with the CEO in department 0 ie not in a department)

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