1: ['potential', 'algorithm', 'boosting', 'function', 'condition', 'pac', 'theorem', 'learning', 'distribution', 'polynomial'],

2: ['network', 'set', 'training', 'learning', 'input', 'neural', 'unit', 'rules', 'system', 'algorithm'],

3: ['model', 'network', 'algorithm', 'data', 'function', 'neural', 'system', 'parameter', 'method', 'set'],

4: ['model', 'data', 'algorithm', 'point', 'distribution', 'gaussian', 'set', 'parameter', 'problem', 'component'],

5: ['function', 'network', 'threshold', 'weight', 'neural', 'input', 'number', 'bound', 'result', 'circuit'],

6: ['cell', 'head', 'direction', 'model', 'rat', 'representation', 'hippocampal', 'place', 'learning', 'david'],

7: ['gradient', 'algorithm', 'learning', 'function', 'matrix', 'natural', 'blind', 'amari', 'signal', 'parameter'],

8: ['network', 'learning', 'classifier', 'set', 'training', 'error', 'function', 'problem', 'neural', 'algorithm'],

9: ['learning', 'network', 'weight', 'algorithm', 'function', 'input', 'error', 'neural', 'training', 'output'],

10: ['data', 'vector', 'function', 'algorithm', 'set', 'training', 'problem', 'learning', 'error', 'method'],

11: ['model', 'spin', 'dynamic', 'point', 'neuron', 'interaction', 'phase', 'cluster', 'network', 'system'],

12: ['neuron', 'model', 'network', 'cell', 'input', 'system', 'neural', 'activity', 'pattern', 'synaptic'],

13: ['network', 'unit', 'input', 'training', 'error', 'learning', 'weight', 'set', 'function', 'neural'],

14: ['image', 'model', 'algorithm', 'graph', 'set', 'images', 'matching', 'point', 'data', 'object'],

15: ['function', 'network', 'signal', 'information', 'learning', 'input', 'component', 'output', 'algorithm', 'data'],

16: ['model', 'learning', 'data', 'algorithm', 'number', 'set', 'distribution', 'similarity', 'examples', 'bayesian'],

17: ['goal', 'learning', 'action', 'exploration', 'algorithm', 'robot', 'cell', 'game', 'optimal', 'system'],

18: ['stochastic', 'schedules', 'mean', 'learning', 'rate', 'exemplar', 'parameter', 'converge', 'schedule', 'search'],

19: ['network', 'model', 'field', 'mean', 'distribution', 'variables', 'learning', 'gaussian', 'parameter', 'algorithm'],

20: ['network', 'model', 'object', 'unit', 'input', 'visual', 'pattern', 'system', 'image', 'learning'],

21: ['network', 'function', 'neural', 'system', 'point', 'unit', 'learning', 'input', 'dynamic', 'output'],

22: ['model', 'network', 'learning', 'neural', 'data', 'input', 'function', 'system', 'control', 'algorithm'],

23: ['chip', 'circuit', 'input', 'network', 'output', 'analog', 'system', 'neural', 'current', 'signal'],

24: ['network', 'image', 'input', 'neural', 'set', 'model', 'map', 'output', 'system', 'data'],

25: ['cell', 'neuron', 'input', 'model', 'current', 'spike', 'response', 'firing', 'synaptic', 'membrane'],

26: ['learning', 'function', 'algorithm', 'action', 'policy', 'model', 'problem', 'reinforcement', 'network', 'optimal'],

27: ['model', 'network', 'parameter', 'neural', 'function', 'bootstrap', 'learning', 'method', 'criterion', 'distribution'],

28: ['model', 'speech', 'word', 'hmm', 'system', 'recognition', 'training', 'network', 'data', 'set'],

29: ['speaker', 'information', 'speech', 'letter', 'set', 'system', 'features', 'network', 'signal', 'recognition'],

30: ['learning', 'system', 'network', 'call', 'routing', 'control', 'packet', 'channel', 'problem', 'traffic']