

## **2 topics from original training data:**

### **topic 32:**

classification classifier class classifiers classes decision patterns test rate feature problems regions trained high multi samples rates gaussian train maximum form probabilities complexity techniques large algorithms experiments work rule statistical basis low applications performed methods good research design inputs mixture consists region determine ieee vol binary study application real presented required dimensional task tasks simple size outputs dimension speech sample vectors back provide accuracy shows small correct desired determined

### **topic 26:**

cell cells direction complex firing properties spatial goal step active environment cortex connections activity rate analysis simulation location relative university brain determined experimental simple shows center similar left circuit measure level present press inputs presented specific significant higher references long proposed respect structure average found temporal position dependent form paper

## **Matched up bursty topics from original training data**

### **topic 16:**

classification binary class stage features terms basic neuron experiments scheme term work rules represent presented classes feature threshold representation table signals performed methods real algorithms sample previous multi rule component ieee cross environment step process memory similar learn due techniques represented accuracy obtained present frequency determined exp experiment task fig found distance lower total considered

### **topic 3:**

cortex orientation cortical visual activity cells center connections contrast cell receptive response eye field stimulus inputs fig local simple similar spatial synaptic responses left long properties range simulations patterns gain stimuli higher fields dependent observed neuron complex experimental position