#### Blue dots in cluster 1:

- Precision =  $\frac{4}{7}$  = 0.571
- Recall =  $\frac{4}{8}$  = 0.5
- F-score =  $\frac{8}{15}$  = 0.533

## Red dots in cluster 1:

- Precision =  $\frac{2}{7}$  = 0.286
- Recall =  $\frac{2}{11}$  = 0.182
- F-score =  $\frac{2}{9}$  = 0.222

#### Green dots in cluster 1:

- Precision =  $\frac{1}{7}$  = 0.143
- Recall =  $\frac{1}{7}$  = 0.143
- F-score =  $\frac{1}{7}$  = 0.143

## Blue dots in cluster 2:

- Precision =  $\frac{2}{7}$  = **0**. 286
- Recall =  $\frac{1}{4}$  = 0.25
- F-score =  $\frac{4}{15}$  = 0.267

## Red dots in cluster 2 = Red dots in cluster 1

# Green dots in cluster 2:

- Precision =  $\frac{3}{7}$  = 0.429
- Recall =  $\frac{3}{7}$  = 0.429
- F-score =  $\frac{3}{7}$  = 0.429

#### Blue dots in cluster 3:

- Precision =  $\frac{1}{6}$  = 0.167
- Recall =  $\frac{1}{8}$  = 0.125
- F-score =  $\frac{1}{7}$  = 0.143

## Red dots in cluster 3:

- Precision =  $\frac{5}{6}$  = 0.833 Recall =  $\frac{5}{11}$  = 0.455
- F-score =  $\frac{10}{17}$  = 0.588

## Blue dots in cluster 4 = Blue dots in cluster 3

## Red dots in cluster 4:

• Precision = 
$$\frac{2}{6}$$
 = 0.333  
• Recall =  $\frac{2}{11}$  = 0.182  
• F-score =  $\frac{4}{17}$  = 0.235

• Recall = 
$$\frac{2}{11}$$
 = 0.182

• F-score = 
$$\frac{4}{17}$$
 = 0.235

# Green dots in cluster 4:

• Precision = 
$$\frac{3}{6}$$
 = 0.5

• Recall = 
$$\frac{3}{7}$$
 = 0.429

• F-score = 
$$\frac{6}{13}$$
 = 0.422

B-CUBED Precision = 
$$\frac{127}{273}$$
 = 0.465

B-CUBED Recall = 
$$\frac{2719}{8008}$$
 = 0.3395