Move Class

Coefficient	Ant			ArgoUML			Collections			Hibernate			JEdit		
	Top1	Top2	Top3	Top1	Top2	Top3	Top1	Top2	Top3	Top1	Top2	Top3	Top1	Top2	Top3
Baroni-Urbani and Buser	29.24%	33.73%	37.33%	16.59%%	28.20%	31.51%	45.27%	72.43%	81.07%	21.89%	30.53%	35.38%	26.81%	47.10%	56.28%
Dot-product	37.18%	45.88%	50.52%	32.98%	40.39%	45.37%	60.08%	80.25%	86.83%	45.68%	58.37%	63.46%	54.11%	65.22%	72.22%
Hamann	23.99%	30.28%	31.63%	21.46%	25.76%	27.12%	43.62%	51.03%	55.14%	14.41%	17.54%	18.52%	13.29%	14.73%	17.15%
Jaccard	41.23%	48.13%	52.47%	35.32%	42.44%	47.51%	63.37%	80.25%	89.30%	48.99%	60.94%	65.85%	55.80%	66.43%	72.95%
Kulczynski	39.43%	45.28%	51.12%	32.59%	40.88%	45.85%	58.85%	76.54%	85.60%	43.78%	58.55%	63.09%	49.52%	63.77%	71.50%
Ochiai	38.98%	47.68%	51.12%	32.59%	40.98%	45.85%	58.44%	79.01%	86.83%	45.74%	59.47%	64.56%	53.14%	65.46%	71.98%
Phi	39.43%	47.68%	51.12%	32.59%	41.07%	46.15%	58.44%	79.01%	85.60%	45.74%	59.53%	64.56%	53.14%	64.98%	71.74%
PSC	45.28%	52.47%	59.82%	38.34%	48.20%	52.39%	62.96%	81.48%	90.12%	54.02%	66.03%	71.92%	58.70%	67.87%	79.23%
Relative Matching	26.24%	33.58%	39.13%	22.93%	35.51%	39.90%	56.79%	76.54%	83.95%	29.98%	46.11%	53.28%	41.06%	54.11%	63.53%
Rogers and Tanimoto	23.99%	30.43%	31.63%	21.46%	26.05%	27.32%	43.62%	51.44%	55.14%	14.47%	17.54%	18.58%	13.29%	14.73%	17.39%
Russell and Rao	30.43%	39.73%	45.73%	29.27%	41.46%	45.37%	60.08%	81.89%	87.65%	37.16%	54.32%	61.31%	47.34%	62.08%	70.77%
Simple matching	23.99%	30.28%	31.48%	21.46%	25.76%	27.02%	43.62%	51.03%	55.14%	14.35%	17.54%	18.52%	13.29%	14.73%	17.15%
Sokal and Sneath	23.99%	29.39%	31.33%	21.46%	25.76%	27.02%	43.62%	50.62%	55.14%	14.16%	17.35%	18.27%	12.56%	14.49%	16.91%
Sokal and Sneath 2	42.43%	49.48%	53.52%	37.17%	45.37%	49.17%	62.96%	80.66%	88.89%	50.89%	61.93%	67.32%	57.00%	66.67%	73.19%
Sokal and Sneath 4	39.43%	45.28%	50.97%	32.68%	40.98%	45.85%	58.85%	75.72%	84.77%	43.96%	58.55%	63.09%	50.24%	63.53%	71.50%
Sokal binary distance	25.34%	31.33%	33.13%	22.73%	26.34%	27.80%	44.44%	52.67%	57.61%	16.31%	20.48%	21.46%	14.01%	17.15%	20.53%
Sorenson	37.18%	45.88%	50.52%	32.98%	40.39%	45.37%	60.08%	80.25%	86.83%	45.68%	58.37%	63.46%	54.11%	65.22%	72.22%
Yule	22.64%	26.84%	29.24%	5.66%	8.98%	11.80%	43.21%	62.55%	74.49%	14.65%	21.89%	26.36%	21.01%	35.02%	43.48%

Move Method

Coefficient	Ant			ArgoUML			Collections			Hibernate			JEdit		
	Top1	Top2	Top3	Top1	Top2	Top3	Top1	Top2	Top3	Top1	Top2	Top3	Top1	Top2	Top3
Baroni-Urbani and Buser	11.71%	15.62%	17.28%	5.93%	9.31%	11.86%	21.71%	27.13%	29.92%	12.18%	17.19%	20.17%	13.70%	17.57%	22.57%
Dot-product	18.63%	26.35%	30.16%	15.15%	22.29%	26.92%	32.87%	40.16%	45.74%	24.62%	33.29%	39.36%	26.17%	35.29%	42.45%
Hamann	12.07%	19.70%	21.59%	8.57%	12.70%	16.82%	22.33%	27.75%	32.87%	14.64%	19.23%	21.59%	16.23%	21.23%	26.84%
Jaccard	21.27%	28.99%	33.26%	19.60%	27.66%	31.79%	38.29%	46.82%	51.16%	27.32%	36.48%	43.09%	29.83%	39.52%	47.14%
Kulczynski	15.08%	23.61%	27.33%	12.42%	19.74%	25.39%	22.79%	29.30%	34.26%	16.09%	22.74%	27.82%	18.29%	27.46%	36.27%
Ochiai	18.36%	26.08%	29.67%	14.27%	21.59%	26.27%	27.91%	35.19%	40.93%	22.26%	30.69%	36.28%	22.31%	32.56%	39.88%
Phi	18.40%	26.17%	29.67%	14.23%	21.50%	26.32%	27.75%	35.19%	40.93%	22.22%	30.61%	36.18%	22.31%	32.56%	39.88%
PSC	22.80%	31.69%	36.31%	21.83%	30.72%	35.40%	35.66%	46.05%	51.32%	27.66%	37.34%	44.57%	29.68%	41.78%	50.80%
Relative Matching	15.13%	20.78%	22.98%	11.86%	17.42%	20.85%	31.01%	38.45%	42.95%	19.75%	27.68%	32.83%	17.98%	25.45%	31.27%
Rogers and Tanimoto	12.39%	19.93%	21.81%	9.08%	12.79%	17.10%	22.33%	28.06%	33.02%	14.74%	19.47%	21.83%	16.33%	21.43%	27.25%
Russell and Rao	18.94%	26.53%	29.76%	18.72%	25.81%	29.80%	41.40%	49.77%	53.95%	26.00%	35.62%	41.55%	25.14%	36.22%	44.20%
Simple matching	12.21%	19.66%	21.54%	8.85%	12.65%	16.68%	22.02%	27.91%	32.71%	14.40%	19.15%	21.43%	16.28%	21.28%	26.79%
Sokal and Sneath	11.27%	18.99%	20.92%	8.25%	12.33%	16.36%	21.40%	27.44%	32.09%	13.86%	18.63%	20.93%	15.82%	20.71%	26.12%
Sokal and Sneath 2	23.43%	31.78%	36.36%	22.98%	31.23%	34.80%	40.78%	49.92%	53.64%	30.13%	39.28%	46.25%	32.20%	43.64%	50.95%
Sokal and Sneath 4	15.08%	23.65%	27.29%	12.47%	19.83%	25.35%	22.64%	29.15%	34.26%	16.01%	22.64%	27.68%	18.29%	27.51%	36.27%
Sokal binary distance	14.90%	21.68%	24.64%	13.53%	18.07%	21.69%	23.72%	30.85%	37.05%	16.65%	21.67%	24.12%	17.21%	23.60%	31.22%
Sorenson	18.63%	26.35%	30.16%	15.15%	22.29%	26.92%	32.87%	40.16%	45.74%	24.62%	33.29%	39.36%	26.17%	35.29%	42.45%
Yule	7.09%	11.98%	13.73%	4.12%	6.16%	8.57%	12.71%	17.98%	22.64%	6.05%	9.70%	12.58%	7.88%	14.12%	18.13%

Extact Method

Coefficient	Ant	ArgoUML	Collections	Hibernate	JEdit
	Hits	Hits	Hits	Hits	Hits
Baroni-Urbani and Buser	48.95%	52.46%	36.63%	59.75%	49.62%
Dot-product	51.83%	54.36%	37.21%	67.20%	55.22%
Hamann	12.65%	11.45%	40.70%	8.68%	9.29%
Jaccard	53.95%	57.54%	45.93%	71.45%	56.99%
Kulczynski	63.65%	61.36%	44.19%	77.15%	64.67%
Ochiai	56.07%	57.15%	40.12%	71.97%	58.83%
Phi	56.12%	56.97%	40.12%	71.88%	58.76%
PSC	59.54%	59.41%	48.84%	76.99%	61.21%
Relative Matching	65.48%	71.39%	40.12%	77.09%	64.21%
Rogers and Tanimoto	12.65%	11.28%	40.70%	8.65%	8.99%
Russell and Rao	72.69%	77.86%	43.02%	84.45%	72.58%
Simple matching	12.65%	11.34%	40.70%	8.75%	9.29%
Sokal and Sneath	12.56%	11.39%	40.12%	8.65%	9.29%
Sokal and Sneath 2	57.26%	59.53%	63.37%	75.76%	62.14%
Sokal and Sneath 4	63.61%	61.13%	43.02%	77.12%	64.44%
Sokal binary distance	21.37%	17.86%	45.93%	15.86%	16.51%
Sorenson	51.83%	54.36%	37.21%	67.20%	55.22%
Yule	55.75%	54.30%	41.28%	60.89%	53.76%

Move Class

Coefficient	JFreeChart			JHotDraw			JMeter			JUnit			TomCat			Mean		
	Top1	Top2	Top3	Top1	Top2	Top3	Top1	Top2	Top3	Top1	Top2	Top3	Top1	Top2	Top3	Top1	Top2	Top3
Baroni-Urbani and Buser	38.16%	46.71%	50.66%	32.22%	48.33%	54.03%	22.44%	30.88%	34.47%	18.67%	44.00%	52.00%	27.02%	36.79%	43.55%	27.83%	41.87%	47.63%
Dot-product	45.18%	53.07%	61.84%	45.78%	60.31%	67.39%	34.65%	44.17%	50.27%	36.00%	57.33%	62.67%	44.27%	54.04%	62.00%	43.59%	55.90%	62.26%
Hamann	26.75%	32.46%	38.82%	13.75%	19.45%	23.18%	15.62%	20.11%	21.18%	18.67%	34.67%	45.33%	11.94%	15.32%	16.04%	20.35%	26.13%	29.41%
Jaccard	46.05%	55.48%	64.69%	47.94%	62.87%	69.16%	35.37%	47.58%	54.22%	36.00%	61.33%	62.67%	46.56%	57.54%	63.81%	45.66%	58.30%	64.26%
Kulczynski	45.39%	54.82%	62.94%	42.63%	60.31%	65.62%	32.85%	44.17%	50.81%	29.33%	56.00%	64.00%	34.14%	50.66%	61.04%	40.85%	55.10%	62.16%
Ochiai	44.96%	54.17%	61.62%	44.99%	60.71%	66.99%	35.73%	44.88%	52.24%	37.33%	58.67%	64.00%	42.82%	54.76%	63.09%	43.47%	56.58%	62.83%
Phi	45.61%	54.39%	61.62%	45.38%	60.71%	67.39%	35.55%	45.42%	52.24%	34.67%	58.67%	62.67%	42.22%	55.01%	63.33%	43.28%	56.65%	62.64%
PSC	50.44%	60.75%	71.71%	48.13%	67.19%	74.26%	42.55%	53.14%	62.48%	42.67%	61.33%	65.33%	48.85%	63.33%	70.93%	49.19%	62.18%	69.82%
Relative Matching	39.47%	45.83%	52.19%	37.33%	52.06%	59.72%	26.21%	32.14%	37.88%	25.33%	45.33%	53.33%	36.67%	46.08%	52.23%	34.20%	46.73%	53.52%
Rogers and Tanimoto	26.75%	32.46%	39.04%	13.75%	19.84%	23.38%	15.80%	20.29%	21.36%	18.67%	34.67%	45.33%	11.94%	15.68%	16.41%	20.37%	26.31%	29.56%
Russell and Rao	41.89%	49.34%	57.46%	43.81%	56.78%	63.46%	31.60%	40.93%	46.68%	28.00%	52.00%	61.33%	43.43%	54.28%	60.92%	39.30%	53.28%	60.07%
Simple matching	26.54%	32.24%	38.60%	13.56%	19.84%	23.38%	15.80%	20.11%	21.01%	16.00%	33.33%	45.33%	12.06%	15.44%	16.28%	20.07%	26.03%	29.39%
Sokal and Sneath	26.54%	32.24%	38.38%	13.56%	19.45%	22.59%	15.26%	19.39%	20.29%	14.67%	33.33%	44.00%	11.22%	14.48%	15.44%	19.70%	25.65%	28.94%
Sokal and Sneath 2	47.81%	58.55%	66.89%	47.35%	64.83%	71.12%	38.06%	49.19%	57.09%	38.67%	61.33%	62.67%	47.65%	58.87%	65.26%	47.00%	59.69%	65.51%
Sokal and Sneath 4	45.61%	55.04%	63.16%	43.03%	60.71%	66.40%	32.85%	44.34%	50.99%	30.67%	56.00%	64.00%	34.14%	50.66%	61.04%	41.15%	55.08%	62.18%
Sokal binary distance	29.39%	35.31%	41.01%	14.93%	20.43%	26.33%	18.13%	22.80%	23.88%	18.67%	37.33%	46.67%	14.72%	19.66%	20.87%	21.87%	28.35%	31.93%
Sorenson	45.18%	53.07%	61.84%	45.78%	60.31%	67.39%	34.65%	44.17%	50.27%	36.00%	57.33%	62.67%	44.27%	54.04%	62.00%	43.59%	55.90%	62.26%
Yule	32.68%	42.32%	45.83%	21.61%	33.60%	40.47%	8.80%	14.90%	18.49%	16.00%	32.00%	40.00%	13.75%	20.27%	26.78%	20.00%	29.84%	35.69%

Move Method

Coefficient	JFreeChart			JHotDraw			JMeter			JUnit			TomCat			Mean		
	Top1	Top2	Top3	Top1	Top2	Top3	Top1	Top2	Top3	Top1	Top2	Top3	Top1	Top2	Top3	Top1	Top2	Top3
Baroni-Urbani and Buser	30.18%	47.73%	60.49%	14.98%	21.06%	24.74%	12.07%	17.40%	20.06%	22.77%	30.36%	39.29%	15.34%	20.49%	26.05%	16.06%	22.39%	27.24%
Dot-product	53.21%	65.67%	72.39%	29.04%	39.57%	46.68%	23.61%	31.12%	37.57%	35.27%	44.64%	55.80%	32.32%	43.58%	50.76%	29.09%	38.20%	44.78%
Hamann	25.56%	36.13%	42.85%	18.71%	26.33%	30.11%	14.08%	18.82%	22.43%	25.89%	31.25%	38.84%	20.56%	27.57%	31.48%	17.86%	24.07%	28.54%
Jaccard	55.44%	66.87%	72.77%	32.67%	43.56%	50.05%	26.69%	36.69%	42.13%	39.29%	50.45%	62.50%	36.70%	48.50%	55.04%	32.71%	42.55%	48.89%
Kulczynski	50.17%	66.18%	73.16%	24.90%	35.07%	42.74%	18.05%	25.86%	32.72%	32.14%	42.86%	53.57%	23.66%	33.27%	41.22%	23.36%	32.61%	39.45%
Ochiai	53.21%	67.29%	73.59%	28.12%	39.31%	46.22%	21.89%	30.12%	35.62%	33.48%	41.07%	55.36%	30.81%	41.25%	48.10%	27.26%	36.52%	43.19%
Phi	53.04%	67.42%	73.76%	28.17%	39.31%	46.32%	21.89%	30.18%	35.62%	33.48%	41.07%	54.02%	30.81%	41.19%	48.13%	27.23%	36.52%	43.08%
PSC	56.46%	67.12%	72.73%	34.41%	45.71%	52.81%	28.93%	39.76%	45.56%	40.18%	50.89%	63.39%	39.37%	51.13%	58.68%	33.70%	44.22%	51.16%
Relative Matching	45.46%	60.10%	66.52%	19.89%	28.12%	34.00%	18.28%	25.74%	30.77%	30.36%	40.63%	48.21%	23.86%	32.25%	39.00%	23.36%	31.66%	36.94%
Rogers and Tanimoto	25.64%	36.52%	43.24%	18.71%	26.48%	30.42%	14.44%	18.99%	22.54%	26.34%	31.25%	39.73%	20.66%	27.57%	31.55%	18.07%	24.25%	28.85%
Russell and Rao	48.76%	60.70%	67.34%	26.64%	36.04%	42.84%	26.21%	35.38%	40.77%	38.39%	51.79%	62.05%	33.13%	43.31%	50.66%	30.33%	40.12%	46.29%
Simple matching	25.34%	36.04%	42.77%	18.61%	26.28%	29.86%	14.32%	19.11%	22.60%	27.23%	32.14%	39.29%	20.16%	27.23%	31.11%	17.94%	24.15%	28.48%
Sokal and Sneath	24.23%	35.02%	41.91%	17.48%	25.41%	29.04%	13.02%	17.69%	21.18%	23.66%	30.36%	38.84%	19.82%	26.56%	30.20%	16.88%	23.31%	27.76%
Sokal and Sneath 2	57.71%	68.15%	73.12%	36.15%	46.88%	53.58%	30.06%	40.12%	45.74%	42.41%	53.57%	64.29%	41.59%	51.97%	58.65%	35.74%	45.65%	51.74%
Sokal and Sneath 4	50.21%	66.05%	73.03%	24.90%	35.07%	42.79%	17.99%	25.80%	32.66%	32.14%	41.96%	52.68%	23.59%	33.20%	41.22%	23.33%	32.49%	39.32%
Sokal binary distance	34.03%	47.60%	54.07%	21.11%	29.60%	35.28%	17.81%	23.85%	27.93%	28.57%	32.14%	41.52%	24.50%	30.57%	35.02%	21.20%	27.96%	33.25%
Sorenson	53.21%	65.67%	72.39%	29.04%	39.57%	46.68%	23.61%	31.12%	37.57%	35.27%	44.64%	55.80%	32.32%	43.58%	50.76%	29.09%	38.20%	44.78%
Yule	20.25%	30.61%	39.43%	7.57%	11.91%	15.24%	8.28%	12.96%	16.63%	11.16%	23.21%	36.16%	7.04%	12.67%	17.93%	9.22%	15.13%	20.10%

Extact Method

Coefficient	JFreeChart	JHotDraw	JMeter	JUnit	TomCat	Mean
	Hits	Hits	Hits	Hits	Hits	Hits
Baroni-Urbani and Buser	42.18%	60.95%	60.09%	57.14%	57.93%	52.57%
Dot-product	55.54%	65.49%	62.93%	64.29%	65.89%	58.00%
Hamann	7.35%	19.01%	9.05%	28.57%	9.13%	15.59%
Jaccard	61.87%	67.68%	63.97%	71.43%	70.03%	62.09%
Kulczynski	71.12%	68.70%	70.60%	71.43%	72.36%	66.52%
Ochiai	61.05%	68.23%	66.38%	71.43%	68.74%	62.00%
Phi	60.99%	68.15%	66.38%	71.43%	68.64%	61.94%
PSC	71.69%	72.07%	67.41%	71.43%	73.25%	66.18%
Relative Matching	74.79%	73.71%	73.10%	71.43%	80.39%	69.17%
Rogers and Tanimoto	7.41%	19.01%	9.05%	28.57%	9.31%	15.56%
Russell and Rao	83.03%	77.23%	80.00%	71.43%	85.65%	74.79%
Simple matching	7.28%	19.01%	8.79%	28.57%	9.28%	15.57%
Sokal and Sneath	7.28%	19.01%	8.79%	28.57%	9.03%	15.47%
Sokal and Sneath 2	70.11%	73.94%	67.59%	71.43%	73.80%	67.49%
Sokal and Sneath 4	70.74%	68.62%	70.34%	71.43%	72.33%	66.28%
Sokal binary distance	11.78%	24.02%	18.62%	28.57%	16.97%	21.75%
Sorenson	55.54%	65.49%	62.93%	64.29%	65.89%	58.00%
Yule	46.11%	62.91%	62.24%	57.14%	60.05%	55.44%