

Digital Libraries WS 2018/2019

Übungsblatt 9

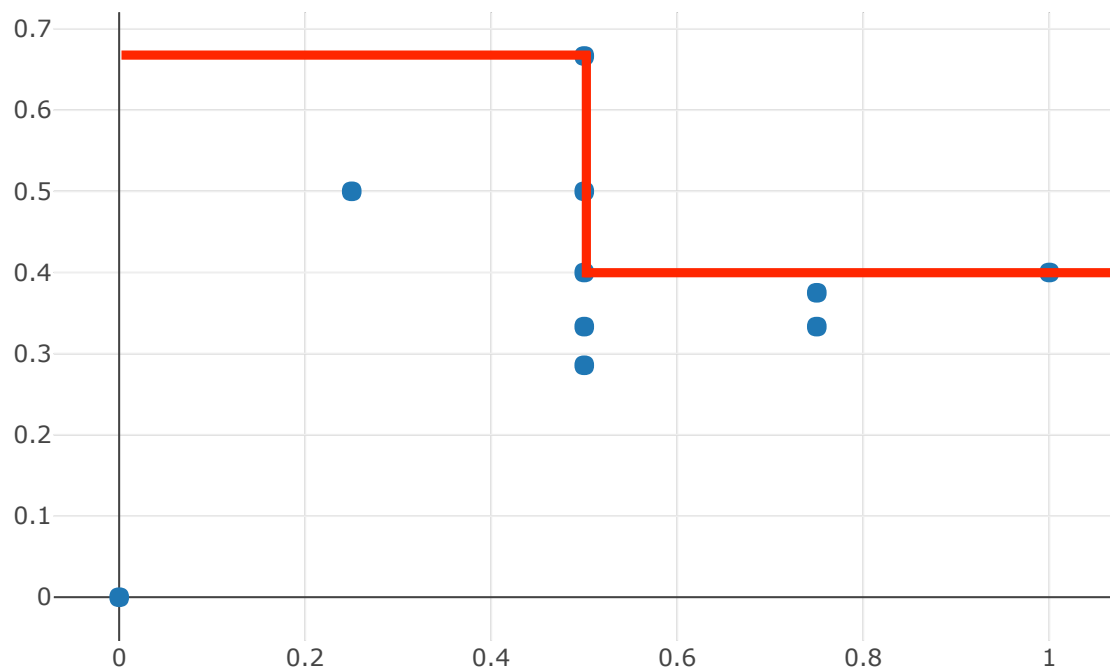
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13. Januar 2019

Aufgabe 1

a)

(Interpolierter) Precision-Recall-Graph



b)

precision	0.67	0.67	0.67	0.67	0.67	0.67	0.4	0.4	0.4	0.4	0.4
recall	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1

$$AIP = (0.67 + 0.67 + 0.67 + 0.67 + 0.675 + 0.67 + 0.4 + 0.4 + 0.4 + 0.4 + 0.4) / 11 = 0.55$$

c)

1)

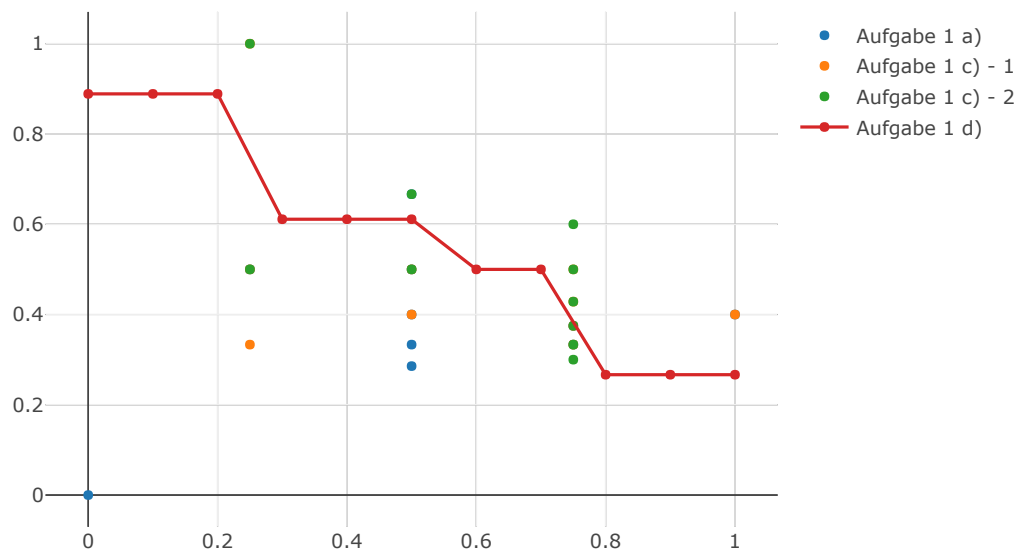
precision	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4
recall	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1

2)

mean precision	1.0	1.0	1.0	0.67	0.67	0.67	0.6	0.6	0	0	0
recall	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1

d)

precision	0.89	0.89	0.89	0.61	0.61	0.61	0.5	0.5	0.27	0.27	0.27
recall	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1



Aufgabe 2

Rang	1	2	3	4	5	6	7	8	9	10
Ideal NDCG	2	4	4.63	5.13	5.13	5.13	5.13	5.13	5.13	5.13
Aufgabe 1 (NDCG)	1.0	0.5	0.57	0.51	0.6	0.6	0.6	0.6	0.6	0.6
Aufgabe 2 (NDCG)	1.0	0.5	0.43	0.59	0.59	0.66	0.66	0.66	0.66	0.72
Aufgabe 3 (MNDCG)	1.0	0.5	0.5	0.55	0.59	0.63	0.63	0.63	0.63	0.66

Aufgabe 3

a)

b)

c)

d)