Additional data file 2: Ten initializations of a PPRE classifier by random sampling. Ten rounds of random sampling were performed to create training sets (10 % of data) and validation sets for each classifier instance. Category averages calculated based on the training sets are shown.

Category	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	average
1/0/0	0.62	0.71	0.62	0.68	0.67	0.65	0.69	0.71	0.66	0.74	**0.68**
0/1/0	0.45	0.4	0.46	0.46	0.39	0.47	0.44	0.50	0.40	0.45	**0.44**
2/0/0	0.27	0.26	0.6	0.26	0.25	0.5	0.21	0.25	0.50	0.50	**0.36**
3/0/0	0.15	0.24	0.09	0.35	0.25	0.09	0.18	0.18	0.6	0.09	**0.22**
1/1/0	0.14	0.26	0.28	0.13	0.17	0.26	0.19	0.19	0.19	0.17	**0.20**
0/0/1	0.22	0.28	0.15	0.09	0.19	0.18	0.29	0.26	0.19	0.15	**0.20**
0/2/0	0.09	0.00	0.13	0.00	0.09	0.06	0.09	0.09	0.00	0.18	**0.07**
2/1/0	0.04	0.05	0.01	0.06	0.03	0.04	0.06	0.07	0.07	0.02	**0.05**
1/0/1	0.02	0.02	0.06	0.02	0.06	0.01	0.06	0.01	0.02	0.02	**0.03**
3/1/0	0.00	0.01	0.00	0.01	0.00	0.01	0.05	0.03	0.03	0.03	**0.02**
4/0/0	0.02	0.04	0.02	0.02	0.00	0.04	0.00	0.04	0.02	0.04	**0.02**
1/2/0	0.01	0.00	0.02	0.01	0.00	0.01	0.00	0.01	0.01	0.02	**0.01**
2/2/0	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	**0.00**
1/3/0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
4/1/0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
2/0/1	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.01	0.01	**0.01**
1/1/1	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.01	**0.00**
0/3/0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
3/0/1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
2/2/1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
2/3/1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
2/1/1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
3/2/0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
3/3/0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
0/2/1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**