

New plots regarding the new experiments are listed below. The first 7 plots show the results of leave-one-out experiments, and the remaining 6 plots (From Figure 8 on) show the results of 10-by-3-way experiments.

Data set	Variant	Win	Tie	Loss	Win - Loss
Cocomo81	TEAK	87	73	0	87
	Best(K)	49	110	1	48
	k=16	42	107	11	31
	k=8	41	100	19	22
	k=4	28	96	36	-8
	NNet	37	76	47	-10
	k=1	28	88	44	-16
	k=2	26	82	52	-26
	SLReg	7	18	135	-128
Cocomo81e	TEAK	55	105	0	55
	NNet	43	117	0	43
	k=8	32	126	2	30
	k=16	32	126	2	30
	Best(K)	32	126	2	30
	k=4	18	113	29	-11
	k=1	8	97	55	-47
	k=2	4	101	55	-51
	SLReg	11	59	90	-79
Cocomo81o	TEAK		136	0	24
	k=16	9	151	0	9
	k=8	8	152	0	8
	Best(K)	8	152	0	8
	NNet	9	150	1	8
	k=4	7	151	2	5
	SLReg	7	145	8	-1
	k=2	2	128	30	-28
	k=1	1	125	34	-33
Nasa93c5	TEAK	40	120	0	40
	SLReg	25	135	0	25
	k=16	17	141	2	15
	Best(K)	17	139	4	13
	k=8	16	134	10	6
	NNet	10	144	6	4
	k=4	10	127	23	-13
	k=2	7	110	43	-36
	k=1	3	100	57	-54
SDR	TEAK	67	93	0	67
	k=1	43	97	20	23
	NNet	25	123	12	13
	k=4	26	118	16	10
	k=8	18	132	10	8
	k=2	20	126	14	6
	Best(K)	16	126	18	-2
	k=16	13	120	27	-14
	SLReg	0	49	111	-111
ISBSG-Banking	TEAK	30	130	0	30
	NNet	24	136	0	24
	SLReg	23	137	0	23
	k=16	22	138	0	22
	k=8	19	141	0	19
	Best(K)	21	137	2	19
	k=4	14	112	34	-20
	k=1	8	106	46	-38
	k=2	4	73	83	-79
Nasa93	SLReg	72	88	0	72
	TEAK	26	134	0	26
	NNet	16	143	1	15
	k=16	13	133	14	-1
	k=8	15	128	17	-2
	Best(K)	14	128	18	-4
	k=4	6	122	32	-26
	k=2	4	113	43	-39
	k=1	6	107	47	-41
Nasa93c2	SLReg	158	2	0	158
	TEAK	36	106	18	18
	k=16	25	115	20	5
	NNet	17	123	20	-3
	k=8	15	116	29	-14
	Best(K)	15	116	29	-14
	k=4	11	101	48	-37
	k=2	5	95	60	-55
	k=1	6	90	64	-58
Desharnais	SLReg	63	97	0	63
	NNet	51	109	0	51
	TEAK	37	121	2	35
	k=16	25	129	6	19
	k=8	22	124	14	8
	Best(K)	16	120	24	-8
	k=4	14	116	30	-16
	k=2	6	80	74	-68
	k=1	1	74	85	-84

Fig. 1: MdmRE based win-loss-tie results from the *randomized assessment* procedure. For each data set results are sorted by wins minus loss values. Gray cells indicate variants with zero losses.

	TEAK	SLReg	NNet	Best(K)	k=1	k=16	k=2	k=4	k=8
Cocomo81	▲								
Cocomo81e	▲								
Cocomo81o	▲								
Nasa93		▲							
Nasa93c2		▲							
Nasa93c5	▲								
Desharnais		▲							
Sdr	▲								
ISBSG-Banking	▲								
Total	6	3	0	0	0	0	0	0	0

Fig. 2: For each dataset, the top performing variant according to MdMRE based ($win-loss$) value is indicated with a ▲. The last row, shows the sum of times a method appeared as the top performing variant. Rows are sorted according to alphabetical order of the datasets, whereas columns are sorted according to sum of top performance.

	TEAK	SLReg	NNet	Best(K)	k=1	k=16	k=2	k=4	k=8
Cocomo81	▲								
Cocomo81e	▲								
Cocomo81o	▲		▲						
Nasa93	▲	▲							
Nasa93c2	▲	▲							
Nasa93c5	▲	▲							
Desharnais		▲	▲						
Sdr	▲				▲				
ISBSG-Banking	▲		▲						
Total	8	4	3	1	1	1	0	0	0

Fig. 3: This figure is similar to Figure 2., except the fact that this time the top performing 2 variants according to MdMRE based ($win-loss$) value are indicated with a ▲. The last row shows the sum of times a method appeared as one of the top performing 2 variants. Rows are sorted according to alphabetical order of the datasets, whereas columns are sorted according to sum of top performance.

	TEAK	SLReg	NNet	Best(K)	k=1	k=16	k=2	k=4	k=8
Cocomo81	▲								
Cocomo81e									
Cocomo81o	▲		▲						
Nasa93		▲							
Nasa93c2		▲							
Nasa93c5	▲								
Desharnais		▲							
Sdr	▲								
ISBSG-Banking	▲								
Total	5	3	1	0	0	0	0	0	0

Fig. 4: For each dataset, the top performing variant according to Pred(25) based ($win-loss$) value is indicated with a ▲. The last row, shows the sum of times a method appeared as the top performing variant. Rows are sorted according to alphabetical order of the datasets, whereas columns are sorted according to sum of top performance.

	TEAK	SLReg	NNet	Best(K)	k=1	k=16	k=2	k=4	k=8
Cocomo81	▲								
Cocomo81e	▲		▲						
Cocomo81o	▲								
Nasa93	▲	▲							
Nasa93c2	▲	▲							
Nasa93c5	▲	▲							
Desharnais		▲	▲						
Sdr	▲				▲				
ISBSG-Banking	▲		▲						
Total	8	4	3	1	1	1	0	0	0

Fig. 5: This figure is similar to Figure 4., except the fact that this time the top performing 2 variants according to Pred(25) based ($win-loss$) value are indicated with a ▲. The last row shows the sum of times a method appeared as one of the top performing 2 variants. Rows are sorted according to alphabetical order of the datasets, whereas columns are sorted according to sum of top performance.

	TEAK	SLReg	NNet	Best(K)	k=1	k=16	k=2	k=4	k=8
Cocomo81	▲								
Cocomo81e	▲								
Cocomo81o	▲								
Nasa93		▲							
Nasa93c2		▲							
Nasa93c5	▲								
Desharnais		▲							
Sdr	▲								
ISBSG-Banking	▲								
Total	6	3	0	0	0	0	0	0	0

Fig. 6: For each dataset, the top performing variant according to MdAR based ($win-loss$) value is indicated with a ▲. The last row, shows the sum of times a method appeared as the top performing variant. Rows are sorted according to alphabetical order of the datasets, whereas columns are sorted according to sum of top performance.

	TEAK	SLReg	NNet	Best(K)	k=16	k=1	k=2	k=4	k=8
Cocomo81	▲								
Cocomo81e	▲		▲						
Cocomo81o	▲					▲			
Nasa93	▲	▲	▲						
Nasa93c2	▲	▲							
Nasa93c5	▲	▲							
Desharnais		▲	▲						
Sdr	▲					▲			
ISBSG-Banking	▲		▲						
Total	7	4	4	2	0	1	0	0	0

Fig. 7: This figure is similar to Figure 6., except the fact that this time the top performing 2 variants according to MdAR based ($win-loss$) value are indicated with a ▲. The last row shows the sum of times a method appeared as one of the top performing 2 variants. Rows are sorted according to alphabetical order of the datasets, whereas columns are sorted according to sum of top performance.

	TEAK	SLReg	NNet	Best(K)	k=1	k=16	k=2	k=4	k=8
Cocomo81	▲								
Cocomo81e	▲								
Cocomo81o	▲								
Nasa93		▲							
Nasa93c2		▲							
Nasa93c5	▲								
Desharnais		▲							
Sdr	▲								
ISBSG-Banking	▲								
Total	6	3	0	0	0	0	0	0	0

Fig. 8: For each dataset, the top performing variant according to MdmRE based ($win-loss$) value is indicated with a ▲. The testing strategy for these experiments are ten-by-3-way. The last row, shows the sum of times a method appeared as the top performing variant. Rows are sorted according to alphabetical order of the datasets, whereas columns are sorted according to sum of top performance.

	TEAK	SLReg	NNet	Best(K)	k=1	k=16	k=2	k=4	k=8
Cocomo81	▲			▲					
Cocomo81e	▲		▲						
Cocomo81o	▲					▲			
Nasa93	▲	▲							
Nasa93c2	▲	▲							
Nasa93c5	▲								▲
Desharnais	▲	▲	▲						
Sdr	▲			▲					
ISBSG-Banking	▲		▲						
Total	8	3	3	2	0	1	0	0	1

Fig. 9: This figure is similar to Figure 8., except the fact that this time the top performing 2 variants according to MdmRE based ($win-loss$) value are indicated with a ▲. The last row shows the sum of times a method appeared as one of the top performing 2 variants. Rows are sorted according to alphabetical order of the datasets, whereas columns are sorted according to sum of top performance.

	TEAK	SLReg	NNet	Best(K)	k=1	k=16	k=2	k=4	k=8
Cocomo81	▲								
Cocomo81e	▲								
Cocomo81o	▲		▲						
Nasa93		▲							
Nasa93c2		▲							
Nasa93c5	▲								
Desharnais		▲							
Sdr	▲								
ISBSG-Banking	▲								
Total	5	3	1	0	0	0	0	0	0

Fig. 10: For each dataset, the top performing variant according to Pred(25) based ($win-loss$) value is indicated with a ▲. The last row, shows the sum of times a method appeared as the top performing variant. Rows are sorted according to alphabetical order of the datasets, whereas columns are sorted according to sum of top performance.

	TEAK	SLReg	NNet	Best(K)	k=1	k=16	k=2	k=4	k=8
Cocomo81	▲								
Cocomo81e	▲		▲						
Cocomo81o	▲					▲			
Nasa93		▲							
Nasa93c2	▲	▲							
Nasa93c5	▲								▲
Desharnais		▲							
Sdr	▲		▲						
ISBSG-Banking	▲		▲						
Total	8	3	5	0	0	2	0	0	0

Fig. 11: This figure is similar to Figure 10., except the fact that this time the top performing 2 variants according to Pred(25) based ($win-loss$) value are indicated with a ▲. The last row shows the sum of times a method appeared as one of the top performing 2 variants. Rows are sorted according to alphabetical order of the datasets, whereas columns are sorted according to sum of top performance.

	TEAK	SLReg	NNet	Best(K)	k=1	k=16	k=2	k=4	k=8
Cocomo81				▲					
Cocomo81e	▲								
Cocomo81o	▲								
Nasa93		▲							
Nasa93c2		▲							
Nasa93c5	▲								
Desharnais		▲							
Sdr	▲								
ISBSG-Banking	▲								
Total	6	3	0	1	0	0	0	0	0

Fig. 12: For each dataset, the top performing variant according to MdAR based ($win-loss$) value is indicated with a ▲. The last row, shows the sum of times a method appeared as the top performing variant. Rows are sorted according to alphabetical order of the datasets, whereas columns are sorted according to sum of top performance.

	TEAK	SLReg	NNet	Best(K)	k=16	k=1	k=2	k=4	k=8
Cocomo81	▲								
Cocomo81e	▲								
Cocomo81o	▲		▲			▲			
Nasa93	▲	▲							
Nasa93c2	▲	▲							
Nasa93c5	▲					▲			
Desharnais		▲							
Sdr	▲		▲						
ISBSG-Banking	▲		▲						
Total	8	3	4	1	2	0	0	0	0

Fig. 13: This figure is similar to Figure 12., except the fact that this time the top performing 2 variants according to MdAR based ($win-loss$) value are indicated with a ▲. The last row shows the sum of times a method appeared as one of the top performing 2 variants. Rows are sorted according to alphabetical order of the datasets, whereas columns are sorted according to sum of top performance.