

TABLE V
TRACE REPAIR ACCURACY (ACC_L) FOR EACH ANOMALOUS PATTERN.
THE BEST PERFORMANCE PER EVENT LOG FOR THE ACCURACY IS
HIGHLIGHTED IN BOLD.

Group	Event Log	Pattern	Methods			
			P-BEAR -RL	Aligner TR	Aligner ED	Deep Align
ART-LOG-1	<i>Small</i>	Skip	1.00	1.00	0.94	0.90
		Insert	1.00	1.00	0.96	0.94
		Rework	1.00	1.00	1.00	1.00
		Replace	0.99	0.98	1.00	0.90
		Move	1.00	1.00	1.00	0.95
		Complex	0.95	0.98	0.93	0.88
	<i>Medium</i>	Skip	0.88	0.87	0.88	0.86
		Insert	0.98	0.98	0.97	0.82
		Rework	1.00	1.00	1.00	0.94
		Replace	0.90	0.89	0.90	0.74
		Move	0.90	0.92	0.88	0.74
		Complex	0.90	1.00	0.70	0.80
	<i>Large</i>	Skip	0.97	0.93	0.92	0.92
		Insert	0.99	0.98	0.98	0.84
		Rework	1.00	1.00	1.00	0.92
		Replace	0.95	0.87	0.87	0.84
		Move	0.97	0.89	0.84	0.82
		complex	0.87	0.93	0.93	0.91
	<i>Huge</i>	Skip	0.92	0.96	0.86	0.86
		Insert	1.00	0.98	0.98	0.92
		Rework	1.00	1.00	1.00	0.98
		Replace	0.90	0.94	0.95	0.86
		Move	0.99	0.96	0.95	0.89
		Complex	0.85	0.93	0.90	0.87
	<i>Wide</i>	Skip	0.91	0.94	0.95	0.92
		Insert	0.97	0.97	0.95	0.86
		Rework	1.00	1.00	1.00	0.89
		Replace	0.88	0.88	0.90	0.75
		Move	0.87	0.96	0.95	0.84
		Complex	0.76	0.95	0.80	0.75
ART-LOG-2	<i>Credit</i>	Skip	0.99	0.87	0.99	0.52
		Insert	0.98	0.84	0.85	0.51
		Rework	1.00	1.00	0.68	0.66
		Replace	0.99	0.74	0.99	0.58
		Move	1.00	0.77	0.96	0.47
		Complex	0.95	0.52	0.67	0.33
	<i>Pub</i>	Skip	0.70	0.72	0.71	0.36
		Insert	0.93	0.94	0.68	0.21
		Rework	1.00	1.00	0.55	0.31
		Replace	0.79	0.76	0.97	0.30
		Move	0.68	0.74	0.69	0.26
		Complex	0.52	0.50	0.62	0.33
REAL-LOG	<i>RoadTraffic</i>	Skip	0.70	0.27	0.65	0.64
		Insert	0.54	0.12	0.07	0.65
		Rework	0.73	0.00	0.04	0.73
		Replace	0.52	0.15	0.77	0.64
		Move	0.98	0.99	0.97	0.71
		Complex	0.58	0.07	0.30	0.55
	<i>BPIC2017</i>	Skip	0.47	0.09	0.55	0.28
		Insert	0.90	0.23	0.49	0.31
		Rework	0.79	0.37	0.36	0.37
		Replace	0.65	0.05	0.84	0.27
		Move	0.55	0.18	0.54	0.28
		Complex	0.43	0.03	0.32	0.25

TABLE VI
TRACE REPAIR ABILITY FOR EACH ANOMALOUS PATTERN. THE BEST
PERFORMANCE PER EVENT LOG FOR THE REPAIR ABILITY IS
HIGHLIGHTED IN BOLD.

Group	Event Log	Pattern	Methods			
			P-BEAR -RL	Aligner TR	Aligner ED	Deep Align
ART-LOG-1	<i>Small</i>	Skip	0.00	0.00	0.13	0.33
		Insert	0.01	0.00	0.10	0.14
		Rework	0.00	0.00	0.00	0.00
		Replace	0.03	0.04	0.00	0.26
		Move	0.00	0.00	0.00	0.16
		Complex	0.17	0.07	0.17	0.33
	<i>Medium</i>	Skip	0.13	0.12	0.09	0.19
		Insert	0.02	0.03	0.02	0.19
		Rework	0.00	0.00	0.00	0.06
		Replace	0.10	0.09	0.12	0.53
		Move	0.10	0.14	0.16	0.42
		Complex	0.20	0.05	0.55	0.35
	<i>Large</i>	Skip	0.03	0.04	0.25	0.26
		Insert	0.02	0.01	0.03	0.10
		Rework	0.00	0.00	0.00	0.02
		Replace	0.05	0.06	0.05	0.26
		Move	0.03	0.05	0.05	0.16
		Complex	0.33	0.07	0.13	0.23
	<i>Huge</i>	Skip	0.08	0.07	0.05	0.16
		Insert	0.00	0.03	0.08	0.21
		Rework	0.00	0.00	0.00	0.11
		Replace	0.11	0.15	0.12	0.38
		Move	0.01	0.06	0.07	0.30
		Complex	0.15	0.15	0.25	0.45
	<i>Wide</i>	Skip	0.09	0.08	0.10	0.08
		Insert	0.01	0.01	0.01	0.16
		Rework	0.00	0.00	0.00	0.08
		Replace	0.12	0.14	0.11	0.17
		Move	0.13	0.07	0.14	0.18
		Complex	0.52	0.09	0.10	0.10
ART-LOG-2	<i>Credit</i>	Skip	0.07	0.07	0.04	2.33
		Insert	0.00	0.22	0.45	2.03
		Rework	0.00	0.12	0.97	1.40
		Replace	0.04	0.29	0.07	2.01
		Move	0.00	0.17	0.08	2.47
		Complex	0.14	0.33	1.19	4.00
	<i>Pub</i>	Skip	0.33	0.46	0.48	1.47
		Insert	0.08	0.06	0.61	1.97
		Rework	0.00	0.00	0.98	1.79
		Replace	0.24	0.46	0.05	1.60
		Move	0.64	0.52	0.61	1.65
		Complex	0.58	0.79	1.08	1.67
REAL-LOG	<i>RoadTraffic</i>	Skip	0.80	0.61	0.44	0.94
		Insert	0.67	1.75	1.78	0.90
		Rework	0.40	1.96	1.57	0.79
		Replace	0.56	0.90	0.24	1.03
		Move	0.03	0.03	0.04	0.72
		Complex	0.99	2.11	1.38	1.38
	<i>BPIC2017</i>	Skip	0.61	1.16	0.81	3.44
		Insert	0.13	1.26	1.05	3.24
		Rework	0.43	1.27	1.41	2.83
		Replace	0.48	1.24	0.40	3.32
		Move	0.64	1.52	0.90	3.04
		Complex	1.06	2.51	3.97	3.91