Semantic Approximation for Reducing Code Bloat in Genetic Programming

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Suppelment 3: Post-hoc analysis of Friedman's test.

Table 1: Post-hoc analysis of Friedman's test using symmetry test conducted on training errors. If the result of the method in the first column is better than that of the method in the second column, p-value of this post-hoc test is printed in bold face. Significant results marked in italic face ($\alpha = 0.05$).

Probl	ems	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18
Fried		.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
-																			
RDO PP	GP GP	.119	.000	.015	.007	.196	.596	.028	.000	.991	.000	.217	.000	.004	.000	.000	.020	.017	.000
TS-S	GP	.000	.000 1	.000	.094 .767	.014 1	.000	.000	.911	.000 1	.333	.000	.066	.000	. <i>001</i>	.768	.000	.000	. <i>000</i> 1
SA10	GP	.020	.162	.938	.416	.984	.012	.000	.911	.967	.000	.879	.017	.958	.995	.504	.020	.000	.997
SA20	GP	.039	.997	.074	.998	.118	.075	.027	.000	.001	.416	.000	.995	.045	.179	1	.000	.000	.004
SAD	GP	.000	.000	.566	.001	.000	.000	.000	.000	.000	.333	.000	1	.040	.000	.685	.000	.000	.000
DA10	GP	1	.179	.998	.003	.991	.993	.991	1	.859	.000	1	.000	.023	.260	.000	.859	.911	.084
DA20	GP	.030	.991	.949	.131	.444	.179	.000	.259	.793	.000	.145	.000	1	.991	.013	.878	.685	1
DAD	GP	.000	.003	.991	.997	.000	.005	.000	.000	.003	.000	.000	.009	1	1	.307	.004	.132	.387
PP	RDO	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TS-S	RDO	.000	.000	.000	.000	.565	.000	.066	.566	1	.000	.000	.000	.000	.000	.000	.000	.000	.000
SA10	RDO	.026	.260	.000	.895	.878	.656	.089	.998	1	.017	.001	.000	.000	.012	.000	.015	.106	.004
SA20	RDO	.000	.000	.000	.000	.000	.000	1	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
SAD	RDO	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
DA10	RDO	.387	.238	.179	1	.839	.991	.373	1	1	.859	.656	.816	1	.596	.565	.685	.566	.741
DA20	RDO	.000	.000	.000	.995	.000	.000	.986	.059	.162	.015	.000	.045	.035	.017	.026	.000	.000	.000
DAD	RDO	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.008	.000	.000	.000	.000	.000
TS-S	PP	.000	.000	1	.973	.001	.026	.982	.000	.000	.333	.333	.106	.991	.011	.415	.028	.741	.000
SA10	PP	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
SA20	PP	.000	.000	.238	.534	1	.003	.001	1	.084	.001	1	.002	.197	.839	.013	.976	.973	.180
SAD	PP	.949	1	.015	.967	.535	.938	1	.967	.505	.000	1	.059	.217	1	.504	1	.998	.626
DA10	PP	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
DA20	PP	.000	.000	.001	.000	.949	.001	.058	.006	.000	.000	.004	.000	.000	.000	.000	.000	.000	.000
DAD	PP	.284	.859	.000	.566	.817	.058	1	1	.035	.000	.415	.000	.000	.003	.000	.124	.002	.001
SA10	TS-S	.095	.444	.013	.003	1	.009	.000	.967	.998	.000	.145	.009	.000	.839	.004	.035	.000	.878
SA20	TS-S	1	.925	.657	.997	.020	1	.070	.000	.000	.627	.387	.984	.009	.596	.949	.475	1	.039
SAD	TS-S	.017	.000	.105	.308	.000	.596	.827	.000	.000	.535	.106	1	.011	.002	1	.013	.995	.003
DA10	TS-S	.002	.475	.000	.000	1	.000	.000	.596	.973	.000	.000	.000	.000	.045	.000	.000	.000	.011
DA20	TS-S	1	.878	.011	.000	.131	.997	.611	.988	.536	.000	.879	.000	.000	.793	.000	.714	.052	1
DAD	TS-S	.359	.000	.004	.998	.000	1	.970	.000	.001	.000	1	.005	.000	1	.001	1	.445	.816
SA20	SA10	.162	.011	.817	.058	.003	.058	.083	.000	.000	.011	.000	.238	.656	.011	.238	.000	.000	.000
SAD	SA10	.000	.000	1	.000	.000	.000	.000	.000	.000	.017	.000	.019	.626	.000	.002	.000	.000	.000
DA10	SA10	.988	1	.444	.816	1	.997	1	.999	1	.656	.445	.066	.000	.859	.146	.816	.998	.535
DA20	SA10	.131	.007	1	1	.030	.147	.002	.387	.095	1	.967	.878	.685	1	.911	.911	.283	.938
DAD	SA10	.000	.000	1	.051	.000	.003	.000	.000	.000	.993	.106	1	.911	.949	1	.006	.023	.045
SAD	SA20	.008	.002	.993	.030	.146	.239	.000	.896	.998	1	1	.997	1	.535	.911	.932	1	.999
DA10	SA20	.006	.013	.004	.000	.004	.002	.360	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
DA20	SA20	1	1	.793	.009	1	1	.988	.014	.260	.013	.005	.002	.006	.008	.002	.002	.006	.023
DAD	SA20	.238	.074	.596	1	.360	.998	.001	1	1	.198	.475	.162	.026	.387	.118	.816	.132	.859
DA10	SAD	.000	.000	.105	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
DA20	SAD								.000										
DAD	SAD	.979	.991	.991	.034	1	.768	1	.896	.979	.260	.145	.011	.023	.000	.001	.070	.052	.387
DA20	DA10	.004	.008	.475	.984	.039	.009	.023	.066	.035	.627	.020	.878	.132	.896	.949	.058	.030	.020
	DA10								.000										
DAD	DA20	.284	.100	1	.008	.085	.979	.043	2^{014}	.445	.773	.010	.938	1	.923	.979	.300	.993	./14

Table 2: Post-hoc analysis of Friedman's test using symmetry test conducted on testing errors. If the result of the method in the first column is better than that of the method in the second column, p-value of this post-hoc test is printed in bold face. Significant results marked in italic face ($\alpha = 0.05$).

Probl	ame	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18
Fried		.000	.000	.415	.000	.000	.000	.000	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
RDO	GP	.012	.000		.000	.034	1	.805	1	.958	.058	.131	.000	.656	.000	.979	.307	1	.118
PP	GP	1	.997		.878	1	1	.000	1	.817	.596	.009	.180	.685	.741	.958	.154	.001	.058
TS-S	GP	.046	.106		1	1	.938	.805	.839	.998	1	.044	1	.132	1	.938	.995	.046	.793
SA10	GP	.030	.000		.008	.967 .007	.535	.925 .035	1 .993	1 .009	.001	1 .005	.026 .949	.000	.839	.009	.949	.002	.020 .973
SA20	GP	.001 .504	.000		1	.332			.993	.009	.001			.000	1 .197	.030 .596	.000	.000	.973
SAD DA10	GP GP	.000	.004		.260 .000	.332	.001	.000	1	.993	.011	.118	.000	.000	.003	.000	.000	.006	.000
DA10	GP	.656	.000		.002	.000	.002	.118	.839	.993 .993	.000	.003	.000	.000	.003	.000	.000	.000	.035
DA20 DAD	GP	.967	.002		1	.034	.002	.000	.741	.445	.000	.003	.000	.000	.333	.000	.000	.045	.535
PP	RDO	.004	.000		.000	.058	.995	.001	1	1	.000	.000	.000	1	.000	.307	.000	.000	.000
TS-S	RDO	.000	.000		.000	.009	.995	1	.535	.505	.019	.000	.000	.997	.000	1	.026	.009	.000
SA10	RDO	.000	.008		.999	.566	.816	1	1	1	.984	.095	.000	.000	.074	.259	.007	.000	1
SA20	RDO	.000	.009		.004	1	.105	.849	1	.333	.988	.000	.000	.000	.000	.475	.000	.000	.816
SAD	RDO	.000	.000		.000	.997	.004	.001	1	.307	1	.000	.000	.000	.000	.998	.000	.000	.093
DA10	RDO	.000	.023		1	.997	.999	1	1	.415	.793	.030	.911	.008	.999	.000	.000	.000	.878
DA20	RDO	.000	.163		1	.656	.011	.976	.979	1 .995	.027	.000	.361	.000	.993	.000	.000	.000	1 .999
DAD	RDO	.360	.000		.002	1	.006	.000	.949		.938	.000	.017	.000	.415	.000	.000	.006	
TS-S	PP	.283	.596		.967	1	.686	.001	.816	.260	.816	1	.596	.995	.714	.196	.728	.958	.925
SA10	PP	.075	.001		.000	.988	.217	.000	1	.993	.000	.015	.000	.000	.022	.000	.919	1	.000
SA20	PP	.003	.001		.504	.013	.005	.217	.995	.596	.000	1	.002	.000	.911	.000	.320	.535	.001
SAD	PP	.714	.074		.993	.444	.000	1	.993	.565	.000	.998	.026	.000	.998	.034	.162	.118	.074
DA10	PP	.001	.000		.000	.444	.793	.006	1	.197	.000	.051	.000	.007	.000	.000	1	1	.000
DA20	PP	.839	.000		.000	.000	.000	.075	.859	1	.000	1	.000	.000	.000	.000	.780	1	.000
DAD	PP	.878	.045		.626	.058	.000	1	.768	1	.000	1	.000	.000	.001	.000	.037	.979	.000
SA10	TS-S	1	.416		.002	.839	.999	1	.656	.878	.000	.106	.002	.001	.859	.387	1	.991	.000
SA20	TS-S	.878	.387		.997	.001	.626	.849	.217	.000	.000	.998	.596	.009	1	.626	.001	.026	.106
SAD	TS-S	1	.991		.445	.146	.094	.001	.198	.000	.003	1	.938	.005	.179	1	.000	.001	.839
DA10	TS-S	.741	.237		.000	.146	1	1	.793	1	.000	.259	.000	.132	.004	.001	.938	.999	.000
DA20	TS-S	.998	.040		.001	.000	.179	.976	.039	.714	.000	.995	.000	.000	.011	.000	.015	.973	.000
DAD	TS-S	.003	.973		.999	.009	.118	.000	.023	.065	.000	1	.000	.000	.359	.000	.000	1	.006
SA20	SA10	.993	1		.058	.259	.967	.686	1	.084	1	.008	.565	1	.626	1	.005	.360	.416
SAD	SA10	.973	.967		.000	.979	.445	.000	.999	.074	1	.162	.180	1	.001	.816	.001	.058	.015
DA10	SA10	.967	1		.991	.979	.997	1	1	.817	1	1	.058	.938	.387	.596	.993	1	.995
DA20	SA10	.925	.993		1	.003	.626	.911	.949	1	.416	.005	.444	.839	.565	.118	.051	1	1
DAD	SA10	.000	.988		.034	.566	.504	.000	.896	.878	1	.020	.988	1	.999	.105	.000	.997	.938
SAD	SA20	.474	.958		.058	.938	.993	.146	1	1	1	.993	1	1	.387	.949	1	.999	.958
DA10	SA20	1	1		.002	.938	.504	.973	.997	.000	1	.030	.000	.998	.001	.359	.117	.198	.045
DA20	SA20	.333	.995		.020	.911	.999	1	1	.179	.387	1	.001	.505	.002	.045	1	.476	.535
DAD	SA20	.000	.984		1	1	.997	.106	.998	.911	1	1	.058	.979	.161	.039	.998	.039	.997
DA10	SAD	.307	.878		.000	1	.058	.003	.995	.000	.973	.359	.000	.991	.000	.009	.048	.023	.000
DA20	SAD	1	.445		.000		1	.045	1			.984			.000			.095	
DAD	SAD	.026	1		.094		1	1	.999			.999					1		.474
	DA10	.197	1		1		.118			.626				.084	1	.998	.474	1	.984
	DA10					.131					1		.997 .565			.997	.008	_	.387
																		1	
DAD	DA20	.051	.565		.011	.656	1	.030	3 1	.967	.596	1	.979	.993	.958	1	.878	.988	.973

Table 3: Post-hoc analysis of Friedman's test using symmetry test conducted on solution size. If the result of the method in the first column is better than that of the method in the second column, p-value of this post-hoc test is printed in bold face. Significant results marked in italic face ($\alpha = 0.05$).

Probl	ems	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18
Fried	man	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
RDO	GP	.895	.488	.910	.009	.875	.057	.000	.815	.066	.998	1	.999	.571	.666	1	1	1	1
PP	GP	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TS-S	GP	.117	.625	.000	.026	.930	.137	.000	.984	.998	1	.068	1	.054	.789	.003	.000	.001	.986
SA10	GP	.001	.004	.005	.017	.042	.010	.457	.083	.010	.001	.004	.027	.000	.010	.007	.068	.043	.004
SA20	GP	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
SAD	GP	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
DA10	GP	.000	.000	.087	.001	.008	.004	.473	.010	.008	.053	.109	.316	.418	.103	.437	.224	.091	.036
DA20	GP	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
DAD	GP	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PP	RDO	.001	.000	.000	.017	.000	.000	.026	.000	.010	.000	.000	.000	.018	.000	.000	.000	.000	.000
TS-S	RDO	.938	1	.000	1	1	1	1	.000	.412	.989	.303	.000	.000	.000	.003	.001	.004	.996
SA10	RDO	.196	.779	.331	1	.812	1	.293	.949	1	.024	.038	.002	.001	.764	.003	.110	.115	.008
SA20	RDO	.000	.000	.000	.003	.000	.000	.549	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000
SAD	RDO	.000	.000	.000	.000	.000	.000	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
DA10	RDO	.055	.372	.886	1	.482	.999	.282	.610	1	.370	.410	.057	1	.992	.437	.316	.212	.060
DA20	RDO	.000	.000	.000	.000	.000	.000	.070	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000
DAD	RDO	.000	.000	.000	.000	.000	.000	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TS-S	PP	.130	.000	.918	.005	.000	.000	.044	.000	.000	.000	.000	.000	.064	.000	.003	.000	.007	.000
SA10	PP	.878	.153	.196	.009	.038	.002	.000	.000	.066	.895	.000	.047 .993	.998	.000	.001	.000	.000	.097 .545
SA20 SAD	PP PP	.169	.827 .017	.998	.662	.989 .042	1 .457	.953 1	1 1	.088	.019 .012	.986	.803	.002	1 .991	.999	.998 1	.559	.073
DA10	PP	.989	.488	.015	.002	.149	.003	.000	.000	.073	.235	.000	.002	.036	.000	.000	.000	.000	.013
DA10	PP	.969	.887	.013	.810	.574	.003	.000	.000	.073	.233 . 984	.439	.002	.988	.738	.649	.185	.884	1
DAZO	PP	.000	.013	.988	.172	.277	.894	1	1	.027	.487	.993	.918	.335	.736 . 999	1	.638	1	.991
SA10	TS-S	.958	.655	.002	1	.722	.998	.206	.684	.123	.000	.998	.019	.418	.637	1	.937	.989	.135
SA20	TS-S	.000	.000	.979	.001	.000	.000	.669	.000	.000	.000	.000	.000	.995	.000	.000	.003	.000	.000
SAD	TS-S	.000	.000	1	.000	.000	.000	.023	.000	.000	.000	.000	.000	1	.000	.000	.000	.000	.000
DA10	TS-S	.753	.258	.000	.997	.380	.988	.196	.247	.110	.025	1	.256	.000	.973	.775	.711	.953	.469
DA20	TS-S	.000	.000	.815	.000	.000	.000	.110	.000	.000	.000	.013	.000	.587	.000	.574	.501	.438	.000
DAD	TS-S	.000			.000	.000	.000	.054	.000	.000	.000	.000	.000	1	.000	.001	.116	.006	.000
SA20	SA10	.001	.001	.098	.001	.001	.001	.000	.000	.000	.000	.000	.001	.043	.000	.000	.000	.000	.000
SAD	SA10	.000	.000	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.103	.000	.000	.000	.000	.000
DA10	SA10	1	1	.997	.999	1	1	1	1	1	.988	.993	.995	.002	.999	.884	1	1	1
	SA10													1			.016		
DAD	SA10	.000	.000	.008	.000	.000	.000	.000	.000	.000	.010	.003	.000	.867	.001	.000	.001	.000	.003
SAD	SA20			1			.472		1	.917	1			1		.981	.931	1	.994
DA10		.007			.022			.000	.003	.000	.000	.000		.000	.000	.000	.000	.000	.000
DA20		1	1	1		.993	1	.993	1	.997		.576	.894	.087		.182	.711	.076	.315
DAD	SA20	.779	.640	.999	.434	.917	.903	.966	.998	.725	.953	.999	1	.824	1	1	.984	.909	.989
DA10	SAD	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
DA20	SAD	.997	.610	.986	1	.976	.639	1	1	.383	.269	.031	.456	.188	.128	.005	.041	.013	.025
DAD	SAD	1	1	1	.999	.999	.999	1	1	1	.911	.545	1	.943	.724	.845	.268	.590	.591
DA20	DA10	.001	.009	.034	.000	.000	.001	.000	.000	.008	.009	.007	.012	.001	.003	.006	.003	.015	.043
	DA10														.000			.000	
	DA20					1									.992				
DAD	DA20	.704	.547	.333	.770	1	.700	1	4 1	.1//	.707	.700	.038	.747	.374	.+34	.777	.000	.936

Table 4: Post-hoc analysis of Friedman's test using symmetry test conducted on running time. If the result of the method in the first column is better than that of the method in the second column, p-value of this post-hoc test is printed in bold face. Significant results marked in italic face ($\alpha = 0.05$).

D., 1.1		F1	F2	F2	E4	D5	Г(F7	Г0	Ε0	E10	E1.1	E10	E12	T1.4	F1.5	F1.6		
Probl		F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18
Fried	man	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
RDO	GP3	.767	.626	.000	.047	.033	.047	.015	.018	.044	.017	.217	.011	.132	.013	.000	.000	.000	.013
PP	GP	.741	.000	.998	.000	.000	.000	.000	.000	.000	.000	.000	.000	.004	.000	.308	.505	.505	.000
TS-S	GP	.000	.006	.000	.001	.714	.217	.000	.995	1	1	.000	1	.000	.179	.000	.000	.000	.967
SA10	GP	.000	.000	.040	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	1	.000	.001	.000
SA20	GP	.000	.000	.066	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
SAD	GP	.000	.000	.161	.000	.000	.000	.000	.000	.000	.002	1	.000	1	.626	.817	1	.999	1
DA10	GP	.000	.010	.958	.504	.001	.005	.685	.106	.686	1	1	.967	.859	1	.979	.878	.949	.566
DA20	GP	.000	.000	.999	.074	.031	.000	.146	.006	.017	.009	.000	.095	.817	.000	.020	.105	.051	.000
DAD	GP	.993	.999	.333	.958	1	1	.997	.997	1	.973	.045	1	.009	.284	.017	.020	.023	.387
PP	RDO	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TS-S	RDO	.000	.000	.000	.000	.001	.000	.000	.011	.012	.058	.000	.003	.000	.000	.000	.000	.000	.000
SA10	RDO	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
SA20	RDO	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
SAD	RDO	.000	.000	.132	.000	.000	.000	.000	.000	.000	.000	.051	.000	.332	.000	.000	.001	.003	.001
DA10	RDO	.000	.000	.000	.001	.000	.000	.000	.000	.000	.002	.045	.333	.000	.008	.011	.045	.027	.000
DA20	RDO	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
DAD	RDO	.162	.179	.051	.030	.333	.283	.685	.741	.307	.387	1	.023	.998	.984	.958	.958	.958	.958
TS-S	PP	.000	.999	.001	.627	.001	.000	.998	.000	.001	.000	.998	.000	.074	.058	.001	.147	.146	.001
SA10	PP	.083	1	.333	1	.999	.026	.967	1	.979	.984	1	1	.162	1	.217	.162	.475	.974
SA20	PP	.000	.000	.444	.051	.118	.997	.198	.283	.029	.912	.162	.626	.993	1	.131	.017	.001	.859
SAD	PP	.007	1	.013	1	.768	.878	.997	.988	.988	.859	.003	.999	.000	.005	.999	.216	.118	.000
DA10	PP	.083	.998	1	.002	.714	.008	.003	.027	.084	.000	.003	.000	.360	.000	.012	.009	.019	.020
DA20	PP	.000	.004	.839	.046	.118	.283	.067	.283	.938	.626	1	.198	.415	.999	.991	.999	.991	.988
DAD	PP	.998	.006	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
SA10	TS-S	.896	.991	.685	.283	.000	.859	1	.000	.000	.000	1	.000	1	.260	.000	1	1	.000
SA20	TS-S	.026	.000	.565	.000	.000	.000	.017	.000	.000	.000	.656	.000	.566	.020	.938	.999	.926	.000
SAD	TS-S	.999	.998	.000	.714	.216	.022	1	.001	.000	.000	.000	.000	.000	.999	.000	.000	.000	1
DA10	TS-S	.896	1	.005	.504	.260	.967	.058	.627	.949	.997	.000	.839	.000	.237	.000	.000	.000	.998
DA20	TS-S	.741	.000	.000	.967	.896	.283	.445	.118	.095	.002	.997	.238	.000	.359	.051	.596	.768	.045
DAD	TS-S	.000	.065	.000	.084	.714	.387	.000	.714	.979	.998	.000	1	.000	.000	.000	.000	.000	.015
SA20	SA10	.000	.000	1	.197	.504	.001	.004	.387	.474	1	.475	.308	.768	.995	.000	.999	.596	1
SAD	SA10	.999	1	.000	1	.283	.714	1	.967	1	.179	.000	1	.000	.040	.714	.000	.000	.000
DA10	SA10	1	.979	.626	.000	.239	1	.162	.015	.001	.000	.000	.000	.000	.000	.993	.000	.000	.000
DA20	SA10	.034	.013	.003	.008	.013	.997	.714	.198	.259	.065	1	.475	.000	1	.011	.626	.979	.416
DAD	SA10	.006	.002	.000	.000	.000	.004	.000	.000	.000	.000	.000	.000	.000	.000	.030	.000	.000	.000
SAD	SA20	.002	.000	.000	.034	.000	.307	.015	.015	.416	.075	.000	.162	.000	.001	.012	.000	.000	.000
DA10	SA20	.000	.000	.741	.000	.000	.000	.000	.000	.000	.000	.000	.000	.030	.000	.000	.000	.000	.000
DA20	SA20	.859	.995	.005	.000	.000	.026	.000	.000	.000	.023	.131	.000	.040	.984	.741	.162	.051	.197
DAD	SA20	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
DA10	SAD	.999	.993	.003	.003	1	.475	.067	.387	.002	.015	1	.000	.596	.714	.131	.988	1	.925
DA20	SAD	.259		.626			.995		.925	.307	1			.535		.741		_	.005
DAD	SAD	.000		1					.000										.094
	DA10								.997					1		.000			.333
	DA10																		
DAD	DA20	.000	.000	.839	.768	.031	.000	.009	5 ^{.000}	.002	.000	.000	.051	.000	.000	.000	.000	.000	.000