

APPENDIX A

Average values of CR_x and CR_y versus λ under different D_u / D_l for $\sigma = 1.0$

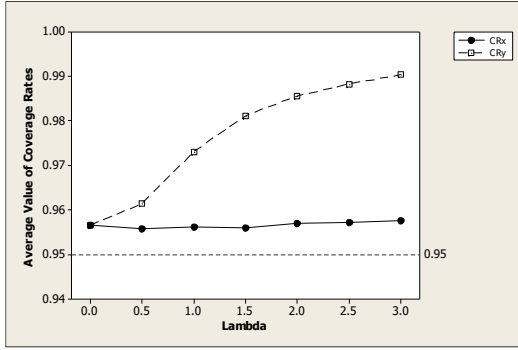


Figure 1. Average values of CR_x and CR_y versus λ under $D_u / D_l = 3/1$.

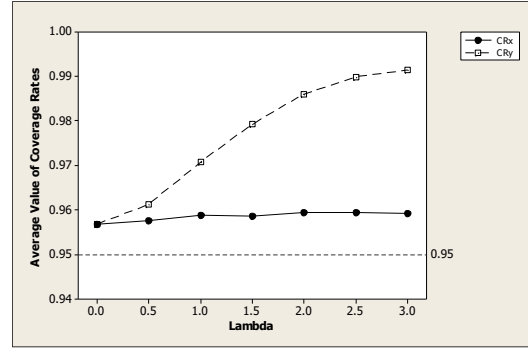


Figure 2. Average values of CR_x and CR_y versus λ under $D_u / D_l = 2/1$.

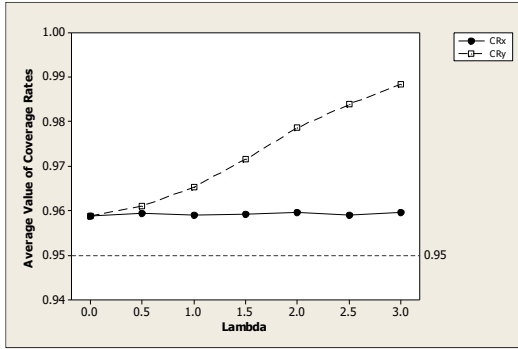


Figure 3. Average values of CR_x and CR_y versus λ under $D_u / D_l = 1/1$.

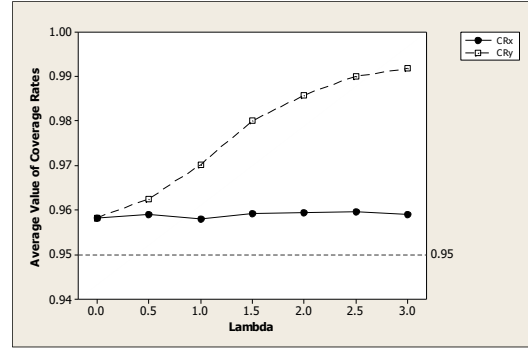


Figure 4. Average values of CR_x and CR_y versus λ under $D_u / D_l = 1/2$.

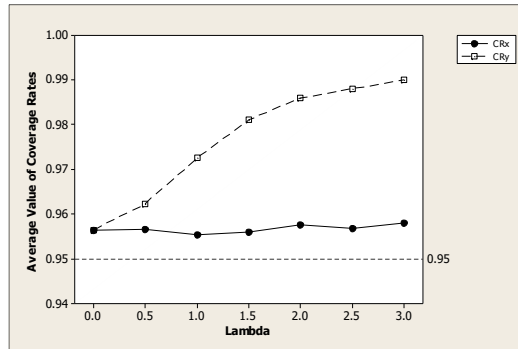


Figure 5. Average values of CR_x and CR_y versus λ under $D_u / D_l = 1/3$.

Appendix B

Average values of generalized lower confidence limits with and without considering GME

Table 1. Average values of generalized lower confidence limits with and without considering GME for different λ under 95% confidence level, $\sigma=0.5$ and $D_u / D_l = 3 / 1$

μ	n	$\lambda=0$		$\lambda=0.1$		$\lambda=0.2$		$\lambda=0.3$	
		\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y
-1	25	0.2256	0.2256	0.2203	0.2200	0.2027	0.2017	0.1835	0.1816
	75	0.2578	0.2578	0.2520	0.2516	0.2394	0.2381	0.2241	0.2214
	100	0.2634	0.2634	0.2577	0.2573	0.2459	0.2445	0.2305	0.2277
	150	0.2707	0.2707	0.2670	0.2666	0.2561	0.2545	0.2438	0.2406
	200	0.2757	0.2757	0.2720	0.2715	0.2625	0.2608	0.2511	0.2477
-0.5	25	0.7320	0.7320	0.6976	0.6877	0.6221	0.5927	0.5318	0.4870
	75	0.8812	0.8812	0.8529	0.8386	0.7863	0.7418	0.7101	0.6379
	100	0.9116	0.9116	0.8838	0.8684	0.8227	0.7743	0.7555	0.6737
	150	0.9515	0.9515	0.9278	0.9106	0.8689	0.8146	0.8074	0.7144
	200	0.9784	0.9784	0.9574	0.9388	0.9044	0.8449	0.8449	0.7424
0	25	2.0316	2.0316	1.9192	1.7798	1.6604	1.3477	1.4374	1.0079
	75	2.3218	2.3218	2.2477	2.0455	2.0614	1.5772	1.8616	1.2169
	100	2.3688	2.3688	2.3005	2.0863	2.1386	1.6148	1.9334	1.2462
	150	2.4225	2.4225	2.3702	2.1391	2.2257	1.6551	2.0483	1.2812
	200	2.4517	2.4517	2.4035	2.1642	2.2763	1.6774	2.1049	1.2976
0.5	25	2.0166	2.0166	1.9225	1.7833	1.7356	1.3931	1.5353	1.0817
	75	2.2606	2.2606	2.1920	2.0017	2.0300	1.5606	1.8412	1.2127
	100	2.3058	2.3058	2.2427	2.0413	2.0988	1.5942	1.9167	1.2388
	150	2.3544	2.3544	2.3066	2.0902	2.1695	1.6280	2.0055	1.2670
	200	2.3867	2.3867	2.3383	2.1143	2.2202	1.6509	2.0608	1.2836
1	25	1.5484	1.5484	1.4947	1.4251	1.3657	1.1783	1.2009	0.9473
	75	1.7213	1.7213	1.6811	1.5878	1.5891	1.3258	1.4649	1.0788
	100	1.7524	1.7524	1.7222	1.6229	1.6292	1.3505	1.5276	1.1058
	150	1.7919	1.7919	1.7641	1.6583	1.6862	1.3843	1.5931	1.1324
	200	1.8153	1.8153	1.7884	1.6787	1.7227	1.4053	1.6342	1.1490

Table 2. Average values of generalized lower confidence limits with and without considering GME for different λ under 95% confidence level, $\sigma=1.0$ and $D_u / D_l = 3 / 1$

μ	n	$\lambda=0$		$\lambda=0.1$		$\lambda=0.2$		$\lambda=0.3$	
		\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y
-1	25	0.1773	0.1773	0.1737	0.1736	0.1683	0.1676	0.1601	0.1585
	75	0.2160	0.2160	0.2145	0.2143	0.2082	0.2071	0.1999	0.1978
	10	0.2264	0.2264	0.2234	0.2231	0.2184	0.2173	0.2103	0.2080
	15	0.2377	0.2377	0.2359	0.2355	0.2295	0.2283	0.2228	0.2202
	20	0.2442	0.2442	0.2424	0.2420	0.2385	0.2371	0.2319	0.2291
-0.5	25	0.4748	0.4748	0.4601	0.4566	0.4305	0.4188	0.3990	0.3778
	75	0.6166	0.6166	0.6081	0.6024	0.5861	0.5658	0.5501	0.5131
	10	0.6486	0.6486	0.6399	0.6335	0.6170	0.5947	0.5903	0.5476
	15	0.6912	0.6912	0.6856	0.6782	0.6659	0.6395	0.6401	0.5898
	20	0.7197	0.7197	0.7143	0.7061	0.6954	0.6665	0.6732	0.6171
0	25	0.9486	0.9486	0.9216	0.9038	0.8710	0.8135	0.8029	0.7043
	75	1.1445	1.1445	1.1361	1.1070	1.1032	1.0063	1.0567	0.8866
	10	1.1759	1.1759	1.1658	1.1347	1.1384	1.0339	1.0951	0.9109
	15	1.2072	1.2072	1.1993	1.1658	1.1746	1.0616	1.1433	0.9400
	20	1.2235	1.2235	1.2173	1.1825	1.1990	1.0800	1.1686	0.9547
0.5	25	1.0200	1.0200	1.0055	0.9840	0.9687	0.8968	0.9185	0.7922
	75	1.1474	1.1474	1.1381	1.1088	1.1086	1.0101	1.0712	0.8953
	10	1.1684	1.1684	1.1606	1.1297	1.1395	1.0340	1.0997	0.9127
	15	1.1971	1.1971	1.1890	1.1561	1.1681	1.0559	1.1365	0.9348
	20	1.2117	1.2117	1.2059	1.1716	1.1888	1.0715	1.1596	0.9482
1	25	0.8999	0.8999	0.8872	0.8716	0.8584	0.8048	0.8093	0.7153
	75	1.0254	1.0254	1.0189	0.9969	0.9952	0.9195	0.9630	0.8247
	10	1.0498	1.0498	1.0435	1.0200	1.0219	0.9410	0.9911	0.8432
	15	1.0786	1.0786	1.0722	1.0469	1.0547	0.9671	1.0268	0.8662
	20	1.0942	1.0942	1.0879	1.0617	1.0720	0.9807	1.0501	0.8807

Table 3. Average values of generalized lower confidence limits with and without considering GME for different λ under 95% confidence level, $\sigma=0.5$ and $D_u / D_l = 2 / 1$

μ	n	$\lambda=0$		$\lambda=0.1$		$\lambda=0.2$		$\lambda=0.3$	
		\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y
-1	25	0.4018	0.4018	0.3896	0.3887	0.3716	0.3684	0.3474	0.3412
	75	0.4515	0.4515	0.4467	0.4455	0.4312	0.4268	0.4117	0.4030
	10	0.4636	0.4636	0.4584	0.4571	0.4438	0.4391	0.4268	0.4173
	15	0.4757	0.4757	0.4715	0.4701	0.4598	0.4546	0.4450	0.4345
	20	0.4841	0.4841	0.4807	0.4792	0.4697	0.4643	0.4577	0.4465
-0.5	25	1.1690	1.1690	1.1278	1.1077	1.0460	0.9840	0.9359	0.8368
	75	1.3804	1.3804	1.3547	1.3245	1.2974	1.1981	1.2169	1.0472
	10	1.4254	1.4254	1.3985	1.3659	1.3488	1.2402	1.2708	1.0853
	15	1.4772	1.4772	1.4594	1.4231	1.4127	1.2922	1.3435	1.1345
	20	1.5113	1.5113	1.4963	1.4577	1.4540	1.3248	1.3914	1.1654
0	25	2.0696	2.0696	2.0119	1.9191	1.8695	1.6064	1.6843	1.3050
	75	2.3256	2.3256	2.2811	2.1554	2.1773	1.8139	2.0361	1.4863
	10	2.3704	2.3704	2.3338	2.2005	2.2321	1.8479	2.0963	1.5130
	15	2.4239	2.4239	2.3888	2.2473	2.3028	1.8899	2.1816	1.5485
	20	2.4562	2.4562	2.4277	2.2800	2.3491	1.9163	2.2424	1.5717
0.5	25	1.9755	1.9755	1.9290	1.8463	1.7969	1.5601	1.6404	1.2822
	75	2.2175	2.2175	2.1851	2.0724	2.0804	1.7532	1.9428	1.4443
	10	2.2641	2.2641	2.2306	2.1117	2.1396	1.7902	2.0177	1.4770
	15	2.3163	2.3163	2.2866	2.1597	2.2071	1.8313	2.0976	1.5117
	20	2.3486	2.3486	2.3201	2.1883	2.2546	1.8593	2.1444	1.5312
1	25	1.3544	1.3544	1.3190	1.2901	1.2455	1.1536	1.1574	1.0049
	75	1.5015	1.5015	1.4864	1.4474	1.4359	1.3078	1.3688	1.1466
	10	1.5299	1.5299	1.5113	1.4705	1.4713	1.3353	1.4097	1.1725
	15	1.5654	1.5654	1.5511	1.5074	1.5149	1.3687	1.4607	1.2033
	20	1.5849	1.5849	1.5705	1.5254	1.5395	1.3873	1.4957	1.2239

Table 4. Average values of generalized lower confidence limits with and without considering GME for different λ under 95% confidence level, $\sigma=1.0$ and $D_u / D_l = 2 / 1$

μ	n	$\lambda=0$		$\lambda=0.1$		$\lambda=0.2$		$\lambda=0.3$	
		\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y
-1	25	0.3038	0.3038	0.3014	0.3009	0.2930	0.2910	0.2903	0.2857
	75	0.3711	0.3711	0.3693	0.3686	0.3628	0.3599	0.3528	0.3468
	10	0.3869	0.3869	0.3842	0.3833	0.3768	0.3737	0.3710	0.3643
	15	0.4050	0.4050	0.4035	0.4026	0.3988	0.3953	0.3897	0.3823
	20	0.4164	0.4164	0.4145	0.4135	0.4094	0.4057	0.4019	0.3939
-0.5	25	0.6749	0.6749	0.6647	0.6601	0.6503	0.6334	0.6172	0.5848
	75	0.8630	0.8630	0.8545	0.8466	0.8385	0.8093	0.8146	0.7572
	10	0.8977	0.8977	0.8980	0.8890	0.8792	0.8466	0.8569	0.7924
	15	0.9495	0.9495	0.9436	0.9334	0.9300	0.8927	0.9047	0.8317
	20	0.9735	0.9735	0.9676	0.9568	0.9585	0.9183	0.9450	0.8640
0	25	1.0018	1.0018	0.9916	0.9797	0.9692	0.9263	0.9268	0.8466
	75	1.1582	1.1582	1.1487	1.1316	1.1358	1.0735	1.1068	0.9875
	10	1.1815	1.1815	1.1769	1.1586	1.1629	1.0967	1.1424	1.0135
	15	1.2096	1.2096	1.2058	1.1864	1.1945	1.1236	1.1761	1.0378
	20	1.2265	1.2265	1.2228	1.2025	1.2128	1.1391	1.1930	1.0497
0.5	25	0.9982	0.9982	0.9902	0.9783	0.9705	0.9275	0.9363	0.8545
	75	1.1361	1.1361	1.1299	1.1133	1.1145	1.0546	1.0886	0.9730
	10	1.1583	1.1583	1.1509	1.1335	1.1400	1.0766	1.1194	0.9956
	15	1.1852	1.1852	1.1824	1.1637	1.1681	1.1006	1.1517	1.0191
	20	1.2036	1.2036	1.1985	1.1791	1.1903	1.1193	1.1738	1.0347
1	25	0.8257	0.8257	0.8168	0.8095	0.7984	0.7718	0.7733	0.7214
	75	0.9534	0.9534	0.9502	0.9396	0.9337	0.8952	0.9191	0.8417
	10	0.9767	0.9767	0.9743	0.9630	0.9616	0.9201	0.9450	0.8623
	15	1.0054	1.0054	1.0029	0.9907	0.9916	0.9467	0.9781	0.8882
	20	1.0231	1.0231	1.0177	1.0050	1.0103	0.9632	0.9965	0.9023

Table 5. Average values of generalized lower confidence limits with and without considering GME for different λ under 95% confidence level, $\sigma=0.5$ and $D_u / D_l = 1/1$

μ	n	$\lambda=0$		$\lambda=0.1$		$\lambda=0.2$		$\lambda=0.3$	
		\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y
-1	25	0.8450	0.8450	0.8354	0.8317	0.8135	0.7995	0.7882	0.7600
	75	0.9480	0.9480	0.9437	0.9387	0.9284	0.9096	0.9095	0.8706
	10	0.9702	0.9702	0.9639	0.9586	0.9528	0.9327	0.9338	0.8925
	15	0.9945	0.9945	0.9920	0.9864	0.9804	0.9589	0.9621	0.9177
	20	1.0102	1.0102	1.0070	1.0011	0.9968	0.9744	0.9810	0.9345
-0.5	25	1.7446	1.7446	1.7312	1.7026	1.6714	1.5735	1.5887	1.4121
	75	2.0131	2.0131	1.9913	1.9505	1.9560	1.8132	1.8868	1.6269
	10	2.0598	2.0598	2.0469	2.0030	2.0075	1.8552	1.9446	1.6659
	15	2.1161	2.1161	2.1028	2.0556	2.0694	1.9049	2.0181	1.7137
	20	2.1468	2.1468	2.1358	2.0866	2.1039	1.9323	2.0632	1.7423
0	25	2.0845	2.0845	2.0562	2.0107	1.9817	1.8307	1.8923	1.6233
	75	2.3248	2.3248	2.3049	2.2446	2.2531	2.0496	2.1807	1.8158
	10	2.3698	2.3698	2.3506	2.2872	2.3034	2.0884	2.2338	1.8485
	15	2.4232	2.4232	2.4088	2.3411	2.3659	2.1360	2.3091	1.8931
	20	2.4567	2.4567	2.4400	2.3699	2.4019	2.1630	2.3460	1.9144
0.5	25	1.7585	1.7585	1.7333	1.7044	1.6746	1.5761	1.5792	1.4060
	75	2.0140	2.0140	1.9953	1.9543	1.9532	1.8110	1.8877	1.6278
	10	2.0610	2.0610	2.0471	2.0032	2.0094	1.8566	1.9464	1.6669
	15	2.1132	2.1132	2.1031	2.0559	2.0691	1.9047	2.0196	1.7146
	20	2.1456	2.1456	2.1353	2.0861	2.1082	1.9356	2.0654	1.7436
1	25	0.8403	0.8403	0.8367	0.8329	0.8138	0.7999	0.7823	0.7546
	75	0.9497	0.9497	0.9431	0.9381	0.9280	0.9092	0.9083	0.8696
	10	0.9684	0.9684	0.9638	0.9585	0.9512	0.9313	0.9304	0.8895
	15	0.9952	0.9952	0.9902	0.9845	0.9814	0.9598	0.9626	0.9182
	20	1.0107	1.0107	1.0060	1.0001	0.9959	0.9735	0.9831	0.9363

Table 6. Average values of generalized lower confidence limits with and without considering GME for different λ under 95% confidence level, $\sigma=1.0$ and $D_u / D_l = 1/1$

μ	n	$\lambda=0$		$\lambda=0.1$		$\lambda=0.2$		$\lambda=0.3$	
		\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y
-1	25	0.5790	0.5790	0.5757	0.5743	0.5678	0.5624	0.5587	0.5472
	75	0.6967	0.6967	0.6961	0.6940	0.6908	0.6825	0.6821	0.6645
	10	0.7182	0.7182	0.7196	0.7173	0.7125	0.7037	0.7077	0.6886
	15	0.7487	0.7487	0.7462	0.7437	0.7414	0.7317	0.7359	0.7149
	20	0.7643	0.7643	0.7645	0.7619	0.7612	0.7508	0.7562	0.7338
-0.5	25	0.9118	0.9118	0.9046	0.9003	0.9036	0.8865	0.8840	0.8490
	75	1.0756	1.0756	1.0740	1.0674	1.0659	1.0407	1.0553	1.0024
	10	1.1064	1.1064	1.1022	1.0951	1.0996	1.0723	1.0862	1.0294
	15	1.1398	1.1398	1.1356	1.1279	1.1320	1.1025	1.1222	1.0605
	20	1.1568	1.1568	1.1556	1.1476	1.1515	1.1207	1.1441	1.0792
0	25	1.0211	1.0211	1.0220	1.0162	1.0078	0.9861	0.9958	0.9500
	75	1.1591	1.1591	1.1579	1.1500	1.1506	1.1205	1.1396	1.0767
	10	1.1838	1.1838	1.1804	1.1722	1.1749	1.1431	1.1656	1.0990
	15	1.2087	1.2087	1.2081	1.1993	1.2026	1.1688	1.1950	1.1240
	20	1.2256	1.2256	1.2249	1.2157	1.2182	1.1833	1.2129	1.1391
0.5	25	0.9163	0.9163	0.9112	0.9068	0.8993	0.8826	0.8780	0.8438
	75	1.0770	1.0770	1.0711	1.0645	1.0655	1.0403	1.0523	0.9998
	10	1.1060	1.1060	1.1037	1.0966	1.0955	1.0685	1.0870	1.0301
	15	1.1382	1.1382	1.1377	1.1300	1.1318	1.1024	1.1239	1.0619
	20	1.1574	1.1574	1.1554	1.1474	1.1511	1.1204	1.1433	1.0785
1	25	0.5810	0.5810	0.5796	0.5782	0.5723	0.5669	0.5592	0.5476
	75	0.6943	0.6943	0.6946	0.6925	0.6907	0.6825	0.6829	0.6653
	10	0.7188	0.7188	0.7180	0.7158	0.7141	0.7052	0.7092	0.6900
	15	0.7459	0.7459	0.7470	0.7445	0.7415	0.7318	0.7380	0.7169
	20	0.7650	0.7650	0.7625	0.7599	0.7617	0.7513	0.7560	0.7336

Table 7. Average values of generalized lower confidence limits with and without considering GME for different λ under 95% confidence level, $\sigma=0.5$ and $D_u / D_l = 1/2$

μ	n	$\lambda=0$		$\lambda=0.1$		$\lambda=0.2$		$\lambda=0.3$	
		\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y
-1	25	1.3478	1.3478	1.3217	1.2926	1.2484	1.1566	1.1475	0.9980
	75	1.5007	1.5007	1.4790	1.4406	1.4377	1.3092	1.3657	1.1452
	10	1.5315	1.5315	1.5153	1.4742	1.4693	1.3337	1.4111	1.1733
	15	1.5631	1.5631	1.5497	1.5062	1.5149	1.3686	1.4652	1.2059
	20	1.5828	1.5828	1.5724	1.5271	1.5398	1.3875	1.4954	1.2238
-0.5	25	1.9740	1.9740	1.9214	1.8395	1.7919	1.5567	1.6258	1.2775
	75	2.2248	2.2248	2.1846	2.0719	2.0804	1.7531	1.9503	1.4473
	10	2.2632	2.2632	2.2300	2.1112	2.1398	1.7902	2.0104	1.4750
	15	2.3157	2.3157	2.2850	2.1584	2.2074	1.8315	2.0922	1.5102
	20	2.3468	2.3468	2.3184	2.1868	2.2494	1.8564	2.1479	1.5325
0	25	2.0710	2.0710	2.0147	1.9218	1.8531	1.5990	1.6959	1.3031
	75	2.3201	2.3201	2.2801	2.1545	2.1821	1.8167	2.0327	1.4845
	10	2.3681	2.3681	2.3285	2.1960	2.2359	1.8501	2.1023	1.5150
	15	2.4201	2.4201	2.3937	2.2513	2.3016	1.8891	2.1893	1.5513
	20	2.4548	2.4548	2.4275	2.2798	2.3517	1.9178	2.2406	1.5712
0.5	25	1.1693	1.1693	1.1254	1.1055	1.0449	0.9821	0.9387	0.8385
	75	1.3804	1.3804	1.3523	1.3223	1.2956	1.1968	1.2128	1.0447
	10	1.4275	1.4275	1.3997	1.3671	1.3435	1.2363	1.2771	1.0895
	15	1.4792	1.4792	1.4612	1.4248	1.4110	1.2909	1.3427	1.1342
	20	1.5152	1.5152	1.4941	1.4557	1.4487	1.3209	1.3941	1.1670
1	25	0.3988	0.3988	0.3913	0.3904	0.3723	0.3690	0.3467	0.3405
	75	0.4514	0.4514	0.4453	0.4441	0.4317	0.4273	0.4127	0.4039
	10	0.4614	0.4614	0.4569	0.4556	0.4438	0.4391	0.4272	0.4177
	15	0.4766	0.4766	0.4717	0.4703	0.4591	0.4540	0.4450	0.4345
	20	0.4842	0.4842	0.4808	0.4794	0.4692	0.4638	0.4553	0.4443

Table 8. Average values of generalized lower confidence limits with and without considering GME for different λ under 95% confidence level, $\sigma=1.0$ and $D_u / D_l = 1/2$

μ	n	$\lambda=0$		$\lambda=0.1$		$\lambda=0.2$		$\lambda=0.3$	
		\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y
-1	25	0.8190	0.8190	0.8146	0.8074	0.8006	0.7739	0.7746	0.7222
	75	0.9535	0.9535	0.9497	0.9392	0.9363	0.8976	0.9170	0.8400
	10	0.9786	0.9786	0.9754	0.9641	0.9629	0.9213	0.9447	0.8622
	15	1.0059	1.0059	1.0014	0.9892	0.9921	0.9472	0.9779	0.8880
	20	1.0216	1.0216	1.0201	1.0074	1.0118	0.9646	0.9987	0.9040
-0.5	25	0.9992	0.9992	0.9895	0.9777	0.9700	0.9272	0.9345	0.8531
	75	1.1357	1.1357	1.1270	1.1105	1.1143	1.0544	1.0917	0.9752
	10	1.1575	1.1575	1.1540	1.1365	1.1382	1.0751	1.1217	0.9971
	15	1.1856	1.1856	1.1819	1.1632	1.1711	1.1030	1.1529	1.0199
	20	1.2020	1.2020	1.1996	1.1802	1.1863	1.1159	1.1718	1.0334
0	25	0.9988	0.9988	0.9908	0.9789	0.9635	0.9213	0.9268	0.8469
	75	1.1529	1.1529	1.1529	1.1356	1.1316	1.0699	1.1096	0.9894
	10	1.1819	1.1819	1.1763	1.1581	1.1628	1.0967	1.1383	1.0106
	15	1.2115	1.2115	1.2071	1.1876	1.1926	1.1221	1.1760	1.0376
	20	1.2272	1.2272	1.2241	1.2037	1.2111	1.1376	1.1955	1.0514
0.5	25	0.6767	0.6767	0.6713	0.6666	0.6506	0.6337	0.6118	0.5801
	75	0.8628	0.8628	0.8587	0.8507	0.8424	0.8128	0.8161	0.7584
	10	0.8976	0.8976	0.8954	0.8865	0.8816	0.8487	0.8583	0.7936
	15	0.9433	0.9433	0.9389	0.9289	0.9301	0.8927	0.9113	0.8369
	20	0.9727	0.9727	0.9704	0.9595	0.9582	0.9181	0.9408	0.8608
1	25	0.3026	0.3026	0.3021	0.3016	0.2965	0.2944	0.2826	0.2784
	75	0.3718	0.3718	0.3687	0.3680	0.3637	0.3608	0.3549	0.3488
	10	0.3852	0.3852	0.3829	0.3821	0.3780	0.3749	0.3692	0.3626
	15	0.4030	0.4030	0.4036	0.4027	0.3967	0.3932	0.3895	0.3821
	20	0.4169	0.4169	0.4151	0.4141	0.4092	0.4055	0.4035	0.3955

Table 9. Average values of generalized lower confidence limits with and without considering GME for different λ under 95% confidence level, $\sigma=0.5$ and $D_u / D_l = 1/3$

μ	n	$\lambda=0$		$\lambda=0.1$		$\lambda=0.2$		$\lambda=0.3$	
		\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y
-1	25	0.225	0.225	0.2203	0.2200	0.2027	0.2017	0.1835	0.1816
	75	0.257	0.257	0.2520	0.2516	0.2394	0.2381	0.2241	0.2214
	10	0.263	0.263	0.2577	0.2573	0.2459	0.2445	0.2305	0.2277
	15	0.270	0.270	0.2670	0.2666	0.2561	0.2545	0.2438	0.2406
	20	0.275	0.275	0.2720	0.2715	0.2625	0.2608	0.2511	0.2477
-0.5	25	0.732	0.732	0.6976	0.6877	0.6221	0.5927	0.5318	0.4870
	75	0.881	0.881	0.8529	0.8386	0.7863	0.7418	0.7101	0.6379
	10	0.911	0.911	0.8838	0.8684	0.8227	0.7743	0.7555	0.6737
	15	0.951	0.951	0.9278	0.9106	0.8689	0.8146	0.8074	0.7144
	20	0.978	0.978	0.9574	0.9388	0.9044	0.8449	0.8449	0.7424
0	25	2.031	2.031	1.9192	1.7798	1.6604	1.3477	1.4374	1.0079
	75	2.321	2.321	2.2477	2.0455	2.0614	1.5772	1.8616	1.2169
	10	2.368	2.368	2.3005	2.0863	2.1386	1.6148	1.9334	1.2462
	15	2.422	2.422	2.3702	2.1391	2.2257	1.6551	2.0483	1.2812
	20	2.451	2.451	2.4035	2.1642	2.2763	1.6774	2.1049	1.2976
0.5	25	2.016	2.016	1.9225	1.7833	1.7356	1.3931	1.5353	1.0817
	75	2.260	2.260	2.1920	2.0017	2.0300	1.5606	1.8412	1.2127
	10	2.305	2.305	2.2427	2.0413	2.0988	1.5942	1.9167	1.2388
	15	2.354	2.354	2.3066	2.0902	2.1695	1.6280	2.0055	1.2670
	20	2.386	2.386	2.3383	2.1143	2.2202	1.6509	2.0608	1.2836
1	25	1.548	1.548	1.4947	1.4251	1.3657	1.1783	1.2009	0.9473
	75	1.721	1.721	1.6811	1.5878	1.5891	1.3258	1.4649	1.0788
	10	1.752	1.752	1.7222	1.6229	1.6292	1.3505	1.5276	1.1058
	15	1.791	1.791	1.7641	1.6583	1.6862	1.3843	1.5931	1.1324
	20	1.815	1.815	1.7884	1.6787	1.7227	1.4053	1.6342	1.1490

Table 10. Average values of generalized lower confidence limits with and without considering GME for different λ under 95% confidence level, $\sigma=1.0$ and $D_u / D_l = 1/3$

μ	n	$\lambda=0$		$\lambda=0.1$		$\lambda=0.2$		$\lambda=0.3$	
		\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y	\bar{L}_x	\bar{L}_y
-1	25	0.8957	0.8957	0.8863	0.8708	0.8537	0.8012	0.9616	0.8239
	75	1.0262	1.0262	1.0189	0.9969	0.9972	0.9212	0.9908	0.8432
	100	1.0496	1.0496	1.0452	1.0216	1.0222	0.9413	1.0277	0.8668
	150	1.0755	1.0755	1.0729	1.0476	1.0543	0.9667	1.0492	0.8803
	200	1.0931	1.0931	1.0880	1.0617	1.0744	0.9826	0.9129	0.7886
-0.5	25	1.0168	1.0168	1.0029	0.9815	0.9700	0.8978	1.0721	0.8957
	75	1.1424	1.1424	1.1365	1.1072	1.1104	1.0115	1.1042	0.9155
	100	1.1685	1.1685	1.1584	1.1277	1.1326	1.0289	1.1353	0.9342
	150	1.1936	1.1936	1.1890	1.1561	1.1680	1.0559	1.1592	0.9480
	200	1.2128	1.2128	1.2057	1.1715	1.1889	1.0716	0.8011	0.7041
0	25	0.9404	0.9404	0.9271	0.9092	0.8729	0.8148	1.0548	0.8852
	75	1.1434	1.1434	1.1344	1.1055	1.1048	1.0075	1.0954	0.9109
	100	1.1747	1.1747	1.1655	1.1345	1.1399	1.0350	1.1436	0.9401
	150	1.2056	1.2056	1.2009	1.1673	1.1784	1.0644	1.1674	0.9540
	200	1.2242	1.2242	1.2188	1.1839	1.1984	1.0795	0.3931	0.3727
0.5	25	0.4715	0.4715	0.4608	0.4573	0.4305	0.4188	0.5558	0.5177
	75	0.6175	0.6175	0.6064	0.6007	0.5822	0.5623	0.5906	0.5478
	100	0.6483	0.6483	0.6428	0.6364	0.6206	0.5980	0.6402	0.5897
	150	0.6911	0.6911	0.6847	0.6774	0.6653	0.6391	0.6726	0.6168
	200	0.7197	0.7197	0.7106	0.7026	0.6928	0.6642	0.1574	0.1558
1	25	0.1774	0.1774	0.1728	0.1726	0.1678	0.1671	0.1999	0.1978
	75	0.2172	0.2172	0.2153	0.2151	0.2073	0.2063	0.2100	0.2077
	100	0.2251	0.2251	0.2236	0.2233	0.2174	0.2163	0.2236	0.2210
	150	0.2375	0.2375	0.2346	0.2343	0.2295	0.2283	0.2331	0.2302
	200	0.2449	0.2449	0.2438	0.2435	0.2381	0.2367	0.9616	0.8239

Appendix C

Average values of \bar{L}_x and \bar{L}_y versus λ under different D_u / D_l for $\sigma = 1.0$

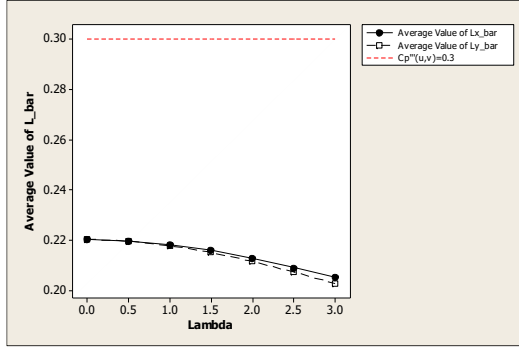


Figure 1. Average values of \bar{L}_x and \bar{L}_y against λ under $D_u / D_l = 3/1$.

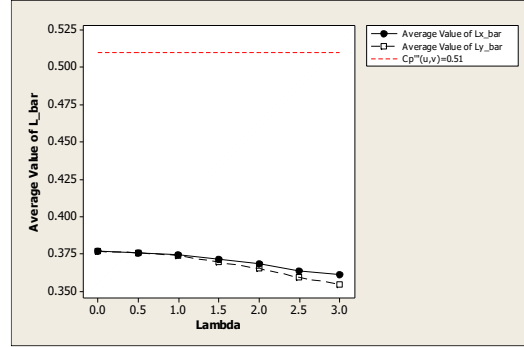


Figure 2. Values of \bar{L}_x and \bar{L}_y against λ under $D_u / D_l = 2/1$.

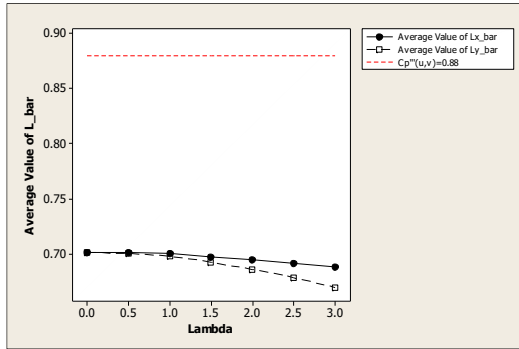


Figure 3. Average values of \bar{L}_x and \bar{L}_y against λ under $D_u / D_l = 1/1$.

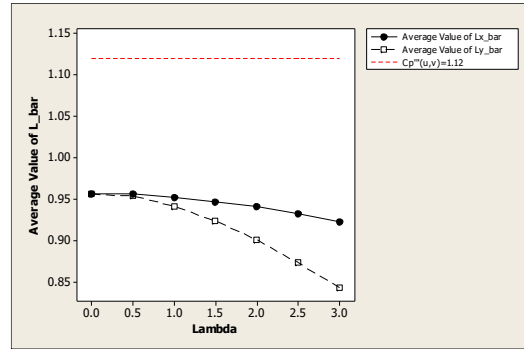


Figure 4. Average values of \bar{L}_x and \bar{L}_y against λ under $D_u / D_l = 1/2$.

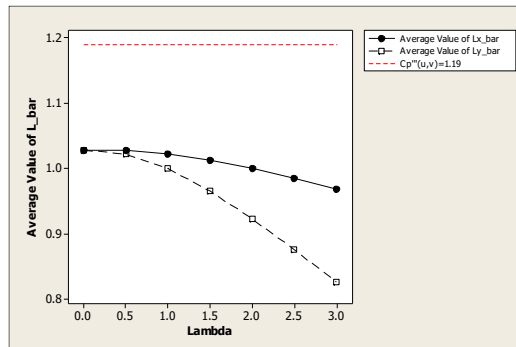


Figure 5. Average values of \bar{L}_x and \bar{L}_y against λ under $D_u / D_l = 1/3$.

Appendix D

Percentage of underestimation

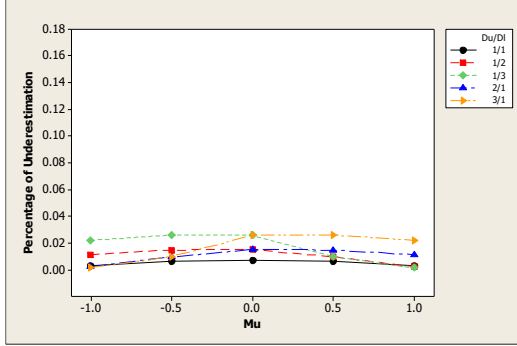


Figure 1. UP for different combinations of μ and D_u/D_l under $\lambda=0.1$.

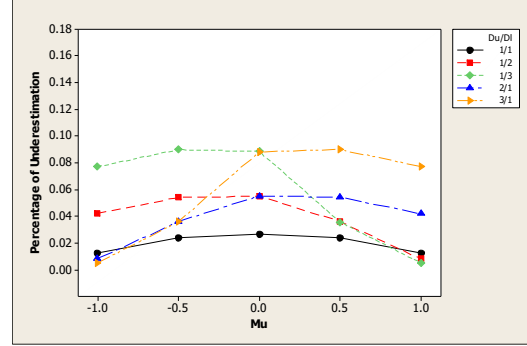


Figure 2. UP for different combinations of μ and D_u/D_l under $\lambda=0.2$.

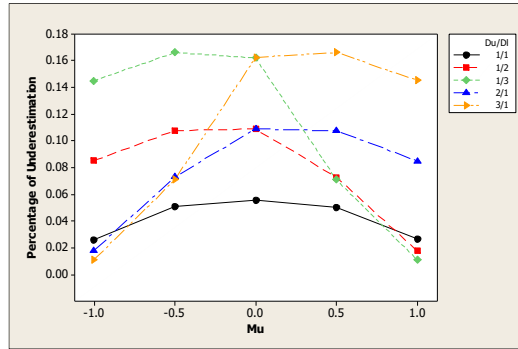


Figure 3. UP for different combinations of μ and D_u/D_l under $\lambda=0.3$.

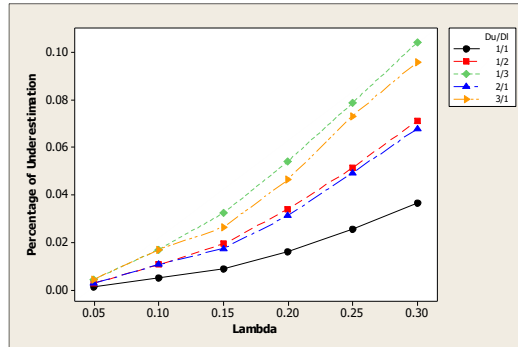


Figure 4. UP versus λ under different D_u/D_l and $\sigma=0.5$.