

# Appendix A

## Imbalance frequency and percentage from simulation experiment

Table (1): Imbalance when sample size is 10 for single layer 1

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	601	60.1	579	57.9	557	55.7
1	391	39.1	390	39.0	386	38.6
2	8	0.8	30	3.0	52	5.2
3	0	0.0	1	0.1	5	0.5

Table (2): Imbalance when sample size is 10 for single layer 2

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	643	64.3	619	61.9	585	58.5
1	349	34.9	349	34.9	343	34.3
2	8	0.0	32	3.2	66	6.6
3	0	0.0	0	0.0	6	0.6

Table (3): Imbalance when sample size is 10 for single layer 3

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	835	83.5	833	83.3	829	82.9
1	165	16.5	165	16.5	165	16.5
2	0	0.0	2	0.2	6	0.6

Table (4): Imbalance when sample size is 10 for single layer 4

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	862	86.2	858	85.8	852	85.2
1	138	13.8	138	13.8	138	13.8
2	0	0.0	4	0.4	10	1.0

Table (5): Imbalance when sample size is 10 for single layer 5

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	526	52.6	459	45.9	355	35.5
1	455	45.5	450	45.0	408	40.8
2	19	1.9	86	8.6	182	18.2
3	0	0.0	5	0.5	45	4.5
4	0	0.0	0	0.0	8	0.8
5	0	0.0	0	0.0	2	0.2

Table (6): Imbalance when sample size is 10 for single layer 6

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	485	48.5	411	41.1	322	32.2
1	500	50.0	492	49.2	457	45.7
2	15	1.5	89	8.9	171	17.1
3	0	0.0	8	0.8	41	4.1
4	0	0.0	0	0.0	7	0.7
5	0	0.0	0	0.0	2	0.2

Table (7): Imbalance when sample size is 10 for single layer 7

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	612	61.2	587	58.7	547	54.7
1	381	38.1	381	38.1	376	37.6
2	7	0.7	32	3.2	72	7.2
3	0	0.0	0	0.0	5	0.5

Table (8): Imbalance when sample size is 10 for single layer 8

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	617	61.7	588	58.8	557	55.7
1	383	38.3	383	38.3	377	37.7
2	0	0.0	29	2.9	60	6.0
3	0	0.0	0	0.0	6	0.6

Table (9): Imbalance when sample size is 10 for single layer 9

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	864	86.4	863	86.3	862	86.2
1	136	13.6	136	13.6	136	13.6
2	0	0.0	1	0.1	2	0.2

Table (10): Imbalance when sample size is 10 for single layer 10

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	851	85.1	851	85.1	846	84.6
1	149	14.9	149	14.9	148	14.8
2	0	0.0	0	0.0	5	0.5
3	0	0.0	0	0.0	1	0.1

Table (11): Imbalance when sample size is 10 for single layer 11

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	498	49.8	432	43.2	330	33.0
1	489	48.9	485	48.5	446	44.6
2	13	1.3	79	7.9	174	17.4
3	0	0.0	4	4.	42	4.2
4	0	0.0	0	0.0	7	0.7
5	0	0.0	0	0.0	1	0.1

Table (12): Imbalance when sample size is 10 for single layer 12

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	497	49.7	404	40.4	328	32.8
1	484	48.4	468	46.8	435	43.5
2	19	1.9	112	11.2	181	18.1
3	0	0.0	16	1.6	47	4.7
4	0	0.0	0	0.0	7	0.7
5	0	0.0	0	0.0	2	0.2

Table (13): Imbalance when sample size is 20 for single layer 1

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	521	52.1	441	44.1	389	38.9
1	463	46.3	455	45.5	433	43.3
2	16	1.6	96	9.6	142	14.2
3	0	0.0	8	0.8	30	3.0
4	0	0.0	0	0.0	6	0.6

Table (14): Imbalance when sample size is 20 for single layer 2

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	522	52.2	439	43.9	376	37.6
1	463	46.3	456	45.6	428	42.8
2	15	1.5	97	9.7	156	15.6
3	0	0.0	7	0.7	34	3.4
4	0	0.0	1	0.1	5	0.5
5	0	0.0	0	0.0	1	0.1

Table (15): Imbalance when sample size is 20 for single layer 3

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	758	75.8	751	75.1	739	73.9
1	242	24.2	242	24.2	242	24.2
2	0	0.0	7	0.7	19	1.9

Table (16): Imbalance when sample size is 20 for single layer 4

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	735	73.5	730	73.0	718	71.8
1	263	26.3	263	26.3	261	26.1
2	2	0.2	7	0.7	19	1.9
3	0	0.0	0	0.0	2	0.2

Table (17): Imbalance when sample size is 20 for single layer 5

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	487	48.7	332	33.2	227	22.7
1	487	48.7	444	44.4	373	37.3
2	24	2.4	176	17.6	240	24.0
3	2	0.2	44	4.4	109	10.9
4	0	0.0	3	0.3	42	4.2
5	0	0.0	1	0.1	6	0.6
6	0	0.0	0	0.0	2	0.2
7	0	0.0	0	0.0	1	0.1

Table (18): Imbalance when sample size is 20 for single layer 6

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	492	49.2	313	31.3	247	24.7
1	484	48.4	440	44.0	358	35.8
2	23	2.3	193	19.3	233	23.3
3	1	0.1	44	4.4	115	11.5
4	0	0.0	9	0.9	33	3.3
5	0	0.0	1	0.1	10	1.0
6	0	0.0	0	0.0	2	0.2
7	0	0.0	0	0.0	2	0.2

Table (19): Imbalance when sample size is 20 for single layer 7

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	508	50.8	426	42.6	360	36.0
1	477	47.7	471	47.1	445	44.5
2	15	1.5	97	9.7	158	15.8
3	0	0.0	6	0.6	32	3.2
4	0	0.0	0	0.0	5	0.5

Table (20): Imbalance when sample size is 20 for single layer 8

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	501	50.1	422	42.2	367	36.7
1	485	48.5	479	47.9	455	45.5
2	14	1.4	93	9.3	144	14.4
3	0	0.0	6	0.6	30	3.0
4	0	0.0	0	0.0	4	0.4

Table (21): Imbalance when sample size is 20 for single layer 9

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	724	72.4	711	71.1	699	69.9
1	276	27.6	276	27.6	275	27.5
2	0	0.0	13	1.3	25	2.5
3	0	0.0	0	0.0	1	0.1

Table (22): Imbalance when sample size is 20 for single layer 10

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	748	74.8	745	74.5	734	73.4
1	250	25.0	250	25.0	249	24.9
2	2	0.2	5	0.5	16	1.6
3	0	0.0	0	0.0	1	0.1

Table (23): Imbalance when sample size is 20 for single layer 11

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	467	46.7	310	31.0	220	22.0
1	498	49.8	458	45.8	397	39.7
2	34	3.4	187	18.7	243	24.3
3	1	0.1	41	4.1	89	8.9
4	0	0.0	4	0.4	33	3.3
5	0	0.0	0	0.0	13	1.3
6	0	0.0	0	0.0	5	0.5

Table (24): Imbalance when sample size is 20 for single layer 12

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	440	44.0	259	25.9	213	21.3
1	524	52.4	466	46.6	405	40.5
2	36	3.6	203	20.3	223	22.3
3	0	0.0	56	5.6	107	10.7
4	0	0.0	14	1.4	36	3.6
5	0	0.0	2	0.2	12	1.2
6	0	0.0	0	0.0	3	0.3
7	0	0.0	0	0.0	1	0.1

Table (25): Imbalance when sample size is 40 for single layer 1

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	491	49.1	321	32.1	252	25.2
1	484	48.4	431	43.1	366	36.6
2	25	2.5	187	18.7	239	23.9
3	0	0.0	53	5.3	109	10.9
4	0	0.0	8	0.8	22	2.2
5	0	0.0	0	0.0	9	0.9
6	0	0.0	0	0.0	3	0.3

Table (26): Imbalance when sample size is 40 for single layer 2

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	484	48.4	310	31.0	270	27.0
1	492	49.2	446	44.6	400	40.0
2	23	2.3	186	18.6	201	20.1
3	1	0.1	47	4.7	84	8.4
4	0	0.0	11	1.1	35	3.5
5	0	0.0	0	0.0	9	0.9
6	0	0.0	0	0.0	1	0.1

Table (27): Imbalance when sample size is 40 for single layer 3

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	607	60.7	574	57.4	560	56.0
1	387	38.7	387	38.7	384	38.4
2	6	0.6	39	3.9	52	5.2
3	0	0.0	0	0.0	3	0.3
4	0	0.0	0	0.0	1	0.1

Table (28): Imbalance when sample size is 40 for single layer 4

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	564	56.4	524	52.4	507	50.7
1	433	43.3	433	43.3	426	42.6
2	3	0.3	43	4.3	60	6.0
3	0	0.0	0	0.0	7	0.7

Table (29): Imbalance when sample size is 40 for single layer 5

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	475	47.5	226	22.6	164	16.4
1	494	49.4	379	37.9	294	29.4
2	27	2.7	247	24.7	228	22.8
3	4	0.4	113	11.3	156	15.6
4	0	0.0	28	2.8	94	9.4
5	0	0.0	6	0.6	40	4.0
6	0	0.0	1	0.1	13	1.3
7	0	0.0	0	0.0	8	0.8
8	0	0.0	0	0.0	3	0.3

Table (30): Imbalance when sample size is 40 for single layer 6

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	452	45.2	227	22.7	161	16.1
1	506	50.6	383	38.3	297	29.7
2	40	4.0	229	22.9	220	22.0
3	2	0.2	115	11.5	165	16.5
4	0	0.0	31	3.1	86	8.6
5	0	0.0	10	1.0	38	3.8
6	0	0.0	5	0.5	19	1.9
7	0	0.0	0	0.0	8	0.8
8	0	0.0	0	0.0	6	0.6

Table (31): Imbalance when sample size is 40 for single layer 7

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	477	47.7	300	30.0	269	26.9
1	484	48.4	451	45.1	390	39.0
2	37	3.7	206	20.6	213	21.3
3	2	0.2	35	3.5	91	9.1
4	0	0.0	8	0.8	30	3.0
5	0	0.0	0	0.0	5	0.5
6	0	0.0	0	0.0	2	0.2

Table (32): Imbalance when sample size is 40 for single layer 8

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	474	47.4	299	29.9	254	25.4
1	505	50.5	440	44.0	419	41.9
2	21	2.1	189	18.9	213	21.3
3	0	0.0	64	6.4	78	7.8
4	0	0.0	7	0.7	24	2.4
5	0	0.0	1	0.1	8	0.8
6	0	0.0	0	0.0	4	0.4

Table (33): Imbalance when sample size is 40 for single layer 9

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	625	62.5	596	59.6	576	57.6
1	368	36.8	366	36.6	362	36.2
2	7	0.7	36	3.6	56	5.6
3	0	0.0	2	0.2	6	0.6

Table (34): Imbalance when sample size is 40 for single layer 10

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	612	61.2	583	58.3	568	56.8
1	380	38.0	379	37.9	375	37.5
2	8	0.8	37	3.7	52	5.2
3	0	0.0	1	0.1	5	0.5

Table (35): Imbalance when sample size is 40 for single layer 11

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	457	45.7	228	22.8	163	16.3
1	512	51.2	398	39.8	289	28.9
2	31	3.1	230	23.0	209	20.9
3	0	0.0	105	10.5	166	16.6
4	0	0.0	29	2.9	90	9.0
5	0	0.0	8	0.8	48	4.8
6	0	0.0	1	0.1	25	2.5
7	0	0.0	1	0.1	7	0.7
8	0	0.0	0	0.0	1	0.1
9	0	0.0	0	0.0	2	0.2

Table (36): Imbalance when sample size is 40 for single layer 12

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	470	47.0	199	19.9	157	15.7
1	493	49.3	345	34.5	305	30.5
2	34	3.4	246	24.6	232	23.2
3	3	0.3	133	13.3	134	13.4
4	0	0.0	56	5.6	94	9.4
5	0	0.0	18	1.8	48	4.8
6	0	0.0	3	0.3	18	1.8
7	0	0.0	0	0.0	7	0.7
8	0	0.0	0	0.0	2	0.2
9	0	0.0	0	0.0	2	0.2
10	0	0.0	0	0.0	1	0.1

Table (37): Imbalance when sample size is 60 for single layer 1

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	463	46.3	245	24.5	186	18.6
1	502	50.2	412	41.2	361	36.1
2	32	3.2	227	22.7	240	24.0
3	3	0.3	89	8.9	121	12.1
4	0	0.0	23	2.3	65	6.5
5	0	0.0	4	0.4	22	2.2
6	0	0.0	0	0.0	4	0.4
7	0	0.0	0	0.0	1	0.1

Table (38): Imbalance when sample size is 60 for single layer 2

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	476	47.6	244	24.4	220	22.0
1	491	49.1	407	40.7	337	33.7
2	32	3.2	236	23.6	224	22.4
3	1	0.1	80	8.0	135	13.5
4	0	0.0	27	2.7	55	5.5
5	0	0.0	5	0.5	18	1.8
6	0	0.0	1	0.1	9	0.9
7	0	0.0	0	0.0	2	0.2

Table (39): Imbalance when sample size is 60 for single layer 3

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	553	55.3	481	48.1	451	45.1
1	438	43.8	429	42.9	420	42.0
2	9	0.9	81	8.1	109	10.9
3	0	0.0	9	0.9	18	1.8
4	0	0.0	0	0.0	2	0.2

Table (40): Imbalance when sample size is 60 for single layer 4

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	564	56.4	490	49.0	458	45.8
1	420	42.0	415	41.5	400	40.0
2	16	1.6	90	9.0	121	12.1
3	0	0.0	5	0.5	20	2.0
4	0	0.0	0	0.0	1	0.1

Table (41): Imbalance when sample size is 60 for single layer 5

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	463	46.3	194	19.4	112	11.2
1	505	50.5	342	34.2	246	24.6
2	27	2.7	237	23.7	208	20.8
3	5	0.5	146	14.6	170	17.0
4	0	0.0	53	5.3	117	11.7
5	0	0.0	21	2.1	72	7.2
6	0	0.0	6	0.6	44	4.4
7	0	0.0	1	0.1	20	2.0
8	0	0.0	0	0.0	6	0.6
9	0	0.0	0	0.0	2	0.2
10	0	0.0	0	0.0	3	0.3

Table (42): Imbalance when sample size is 60 for single layer 6

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	461	46.1	173	17.3	152	15.2
1	494	49.4	335	33.5	246	24.6
2	42	4.2	261	26.1	209	20.9
3	3	0.3	130	13.0	141	14.1
4	0	0.0	66	6.6	97	9.7
5	0	0.0	31	3.1	79	7.9
6	0	0.0	3	0.3	32	3.2
7	0	0.0	1	0.1	26	2.6
8	0	0.0	0	0.0	10	1.0
9	0	0.0	0	0.0	5	0.5
10	0	0.0	0	0.0	3	0.3

Table (43): Imbalance when sample size is 60 for single layer 7

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	503	50.3	273	27.3	235	23.5
1	464	46.4	387	38.7	320	32.0
2	30	3.0	238	23.8	233	23.3
3	3	0.3	76	7.6	129	12.9
4	0	0.0	22	2.2	61	6.1
5	0	0.0	4	0.4	17	1.7
6	0	0.0	0	0.0	4	0.4
7	0	0.0	0	0.0	1	0.1

Table (44): Imbalance when sample size is 60 for single layer 8

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	494	49.4	261	26.1	217	21.7
1	473	47.3	385	38.5	334	33.4
2	30	3.0	235	23.5	242	24.2
3	3	0.3	86	8.6	120	12.0
4	0	0.0	27	2.7	58	5.8
5	0	0.0	5	0.5	20	2.0
6	0	0.0	1	0.1	7	0.7
7	0	0.0	0	0.0	2	0.2

Table (45): Imbalance when sample size is 60 for single layer 9

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	530	53.0	453	45.3	445	44.5
1	464	46.4	454	45.4	445	44.5
2	6	0.6	83	8.3	90	9.0
3	0	0.0	10	1.0	19	1.9
4	0	0.0	0	0.0	1	0.1

Table (46): Imbalance when sample size is 60 for single layer 10

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	529	52.9	459	45.9	431	43.1
1	461	46.1	453	45.3	444	44.4
2	10	1.0	80	8.0	107	10.7
3	0	0.0	8	0.8	17	1.7
4	0	0.0	0	0.0	1	0.1

Table (47): Imbalance when sample size is 60 for single layer 11

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	434	43.4	158	15.8	121	12.1
1	537	53.7	377	37.7	270	27.0
2	29	2.9	239	23.9	196	19.6
3	0	0.0	133	13.3	166	16.6
4	0	0.0	57	5.7	93	9.3
5	0	0.0	27	2.7	79	7.9
6	0	0.0	9	0.9	44	4.4
7	0	0.0	0	0.0	16	1.6
8	0	0.0	0	0.0	7	0.7
9	0	0.0	0	0.0	6	0.6
10	0	0.0	0	0.0	1	0.1
11	0	0.0	0	0.0	1	0.1

Table (48): Imbalance when sample size is 60 for single layer 12

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	421	42.1	156	15.6	121	12.1
1	535	53.5	317	31.7	260	26.0
2	40	4.0	221	22.1	175	17.5
3	4	0.4	178	17.8	170	17.0
4	0	0.0	66	6.6	121	12.1
5	0	0.0	40	4.0	81	8.1
6	0	0.0	16	1.6	34	3.4
7	0	0.0	4	0.4	20	2.0
8	0	0.0	2	0.2	8	0.8
9	0	0.0	0	0.0	7	0.7
10	0	0.0	0	0.0	2	0.2
11	0	0.0	0	0.0	1	0.1

Table (49): Imbalance when sample size is 80 for single layer 1

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	474	47.4	226	22.6	172	17.2
1	493	49.3	358	35.8	326	32.6
2	30	3.0	229	22.9	230	23.0
3	3	0.3	122	12.2	128	12.8
4	0	0.0	48	4.8	92	9.2
5	0	0.0	16	1.6	35	3.5
6	0	0.0	1	0.1	7	0.7
7	0	0.0	0	0.0	6	0.6
8	0	0.0	0	0.0	3	0.3
9	0	0.0	0	0.0	1	0.1

Table (50): Imbalance when sample size is 80 for single layer 2

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	474	47.4	232	23.2	197	19.7
1	491	49.1	372	37.2	310	31.0
2	33	3.3	238	23.8	224	22.4
3	2	0.2	103	10.3	142	14.2
4	0	0.0	34	3.4	74	7.4
5	0	0.0	17	1.7	36	3.6
6	0	0.0	3	0.3	11	1.1
7	0	0.0	1	0.1	5	0.5
8	0	0.0	0	0.0	1	0.1

Table (51): Imbalance when sample size is 80 for single layer 3

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	504	50.4	403	40.3	361	36.1
1	482	48.2	466	46.6	452	45.2
2	14	1.4	114	11.4	154	15.4
3	0	0.0	16	1.6	29	2.9
4	0	0.0	1	0.1	3	0.3
5	0	0.0	0	0.0	1	0.1

Table (52): Imbalance when sample size is 80 for single layer 4

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	508	50.8	413	41.3	394	39.4
1	471	47.1	464	46.4	440	44.0
2	21	2.1	114	11.4	129	12.9
3	0	0.0	7	0.7	31	3.1
4	0	0.0	2	0.2	6	0.6



Table (53): Imbalance when sample size is 80 for single layer 5

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	470	47.0	172	17.2	112	11.2
1	483	48.3	311	31.1	199	19.9
2	45	4.5	234	23.4	211	21.1
3	2	0.2	137	13.7	152	15.2
4	0	0.0	92	9.2	120	12.0
5	0	0.0	34	3.4	89	8.9
6	0	0.0	16	1.6	46	4.6
7	0	0.0	3	0.3	30	3.0
8	0	0.0	1	0.1	22	2.2
9	0	0.0	0	0.0	12	1.2
10	0	0.0	0	0.0	3	0.3
11	0	0.0	0	0.0	3	0.3
12	0	0.0	0	0.0	1	0.1

Table (54): Imbalance when sample size is 80 for single layer 6

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	467	46.7	144	14.4	106	10.6
1	504	50.4	282	28.2	201	20.1
2	27	2.7	236	23.6	183	18.3
3	2	0.2	174	17.4	160	16.0
4	0	0.0	100	10.0	105	10.5
5	0	0.0	42	4.2	82	8.2
6	0	0.0	13	1.3	69	6.9
7	0	0.0	7	0.7	48	4.8
8	0	0.0	1	0.1	26	2.6
9	0	0.0	1	0.1	10	1.0
10	0	0.0	0	0.0	4	0.4
11	0	0.0	0	0.0	4	0.4
12	0	0.0	0	0.0	2	0.2

Table (55): Imbalance when sample size is 80 for single layer 7

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	475	47.5	219	21.9	174	17.4
1	489	48.9	357	35.7	316	31.6
2	33	3.3	248	24.8	248	24.8
3	3	0.3	123	12.3	139	13.9
4	0	0.0	39	3.9	70	7.0
5	0	0.0	12	1.2	29	2.9
6	0	0.0	2	0.2	15	1.5
7	0	0.0	0	0.0	8	0.8
8	0	0.0	0	0.0	1	0.1

Table (56): Imbalance when sample size is 80 for single layer 8

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	458	45.8	215	21.5	180	18.0
1	498	49.8	353	35.3	317	31.7
2	42	4.2	240	24.0	237	23.7
3	2	0.2	131	13.1	138	13.8
4	0	0.0	44	4.4	68	6.8
5	0	0.0	14	1.4	35	3.5
6	0	0.0	1	0.1	15	1.5
7	0	0.0	2	0.2	9	0.9
8	0	0.0	0	0.0	1	0.1

Table (57): Imbalance when sample size is 80 for single layer 9

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	525	52.5	430	43.0	378	37.8
1	466	46.6	451	45.1	422	42.2
2	9	0.9	104	10.4	152	15.2
3	0	0.0	15	1.5	43	4.3
4	0	0.0	0	0.0	4	0.4
5	0	0.0	0	0.0	1	0.1

Table (58): Imbalance when sample size is 80 for single layer 10

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	514	51.4	429	42.9	398	39.8
1	473	47.3	455	45.5	442	44.2
2	13	1.3	96	9.6	124	12.4
3	0	0.0	18	1.8	31	3.1
4	0	0.0	2	0.2	5	0.5

Table (59): Imbalance when sample size is 80 for single layer 11

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	468	46.8	144	14.4	99	9.9
1	495	49.5	298	29.8	204	20.4
2	33	3.3	256	25.6	178	17.8
3	4	0.4	166	16.6	149	14.9
4	0	0.0	80	8.0	130	13.0
5	0	0.0	33	3.3	90	9.0
6	0	0.0	19	1.9	65	6.5
7	0	0.0	1	0.1	35	3.5
8	0	0.0	2	0.2	20	2.0
9	0	0.0	1	0.1	16	1.6
10	0	0.0	0	0.0	7	0.7
11	0	0.0	0	0.0	5	0.5
12	0	0.0	0	0.0	2	0.2

Table (60): Imbalance when sample size is 80 for single layer 12

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	501	50.1	155	15.5	114	11.4
1	469	46.9	245	24.5	202	20.2
2	28	2.8	224	22.4	192	19.2
3	2	0.2	154	15.4	161	16.1
4	0	0.0	110	11.0	134	13.4
5	0	0.0	54	5.4	75	7.5
6	0	0.0	34	3.4	67	6.7
7	0	0.0	17	1.7	25	2.5
8	0	0.0	6	0.6	18	1.8
9	0	0.0	1	0.1	4	0.4
10	0	0.0	0	0.0	3	0.3
11	0	0.0	0	0.0	4	0.4
12	0	0.0	0	0.0	1	0.1

Table (61): Imbalance when sample size is 100 for single layer 1

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	444	44.4	200	20.0	150	15.0
1	523	52.3	360	36.0	325	32.5
2	32	3.2	226	22.6	218	21.8
3	1	0.1	149	14.9	143	14.3
4	0	0.0	45	4.5	80	8.0
5	0	0.0	15	1.5	46	4.6
6	0	0.0	5	0.5	26	2.6
7	0	0.0	0	0.0	10	1.0
8	0	0.0	0	0.0	2	0.2

Table (62): Imbalance when sample size is 100 for single layer 2

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	476	47.6	210	21.0	138	13.8
1	487	48.7	319	31.9	280	28.0
2	36	3.6	233	23.3	234	23.4
3	1	0.1	155	15.5	147	14.7
4	0	0.0	63	6.3	111	11.1
5	0	0.0	14	1.4	49	4.9
6	0	0.0	5	0.5	26	2.6
7	0	0.0	0	0.0	10	1.0
8	0	0.0	1	0.1	3	0.3
9	0	0.0	0	0.0	2	0.2

Table (63): Imbalance when sample size is 100 for single layer 3

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	485	48.5	345	34.5	325	32.5
1	493	49.3	466	46.6	434	43.4
2	21	2.1	155	15.5	172	17.2
3	1	0.1	28	2.8	59	5.9
4	0	0.0	6	0.6	9	0.9
5	0	0.0	0	0.0	1	0.1

Table (64): Imbalance when sample size is 100 for single layer 4

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	506	50.6	385	38.5	350	35.0
1	476	47.6	456	45.6	429	42.9
2	18	1.8	139	13.9	164	16.4
3	0	0.0	19	1.9	43	4.3
4	0	0.0	0	0.0	10	1.0
5	0	0.0	1	0.1	4	0.4

Table (65): Imbalance when sample size is 100 for single layer 5

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	466	46.6	130	13.0	97	9.7
1	504	50.4	282	28.2	212	21.2
2	29	2.9	242	24.2	178	17.8
3	1	0.1	169	16.9	143	14.3
4	0	0.0	99	9.9	118	11.8
5	0	0.0	48	4.8	89	8.9
6	0	0.0	21	2.1	69	6.9
7	0	0.0	5	0.5	36	3.6
8	0	0.0	3	0.3	23	2.3
9	0	0.0	1	0.1	19	1.9
10	0	0.0	0	0.0	8	0.8
11	0	0.0	0	0.0	5	0.5
12	0	0.0	0	0.0	3	0.3

Table (66): Imbalance when sample size is 100 for single layer 6

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	481	48.1	146	14.6	89	8.9
1	481	48.1	248	24.8	157	15.7
2	34	3.4	227	22.7	179	17.9
3	4	0.4	166	16.6	154	15.4
4	0	0.0	104	10.4	125	12.5
5	0	0.0	61	6.1	101	10.1
6	0	0.0	33	3.3	73	7.3
7	0	0.0	8	0.8	48	4.8
8	0	0.0	5	0.5	34	3.4
9	0	0.0	2	0.2	22	2.2
10	0	0.0	0	0.0	12	1.2
11	0	0.0	0	0.0	3	0.3
12	0	0.0	0	0.0	3	0.3

Table (67): Imbalance when sample size is 100 for single layer 7

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	477	47.7	217	21.7	170	17.0
1	474	47.4	349	34.9	266	26.6
2	48	4.8	247	24.7	241	24.1
3	1	0.1	101	10.1	152	15.2
4	0	0.0	57	5.7	88	8.8
5	0	0.0	22	2.2	47	4.7
6	0	0.0	4	0.4	21	2.1
7	0	0.0	3	0.3	10	1.0
8	0	0.0	0	0.0	5	0.5

Table (68): Imbalance when sample size is 100 for single layer 8

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	498	49.8	206	20.6	164	16.4
1	466	46.6	320	32.0	270	27.0
2	33	3.3	236	23.6	231	23.1
3	3	0.3	133	13.3	147	14.7
4	0	0.0	83	8.3	108	10.8
5	0	0.0	15	1.5	44	4.4
6	0	0.0	6	0.6	25	2.5
7	0	0.0	1	0.1	6	0.6
8	0	0.0	0	0.0	2	0.2
9	0	0.0	0	0.0	1	0.1
10	0	0.0	0	0.0	1	0.1
11	0	0.0	0	0.0	1	0.1

Table (69): Imbalance when sample size is 100 for single layer 9

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	500	50.0	377	37.7	334	33.4
1	483	48.3	456	45.6	431	43.1
2	17	1.7	137	13.7	172	17.2
3	0	0.0	27	2.7	52	5.2
4	0	0.0	3	0.3	11	1.1

Table (70): Imbalance when sample size is 100 for single layer 10

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	510	51.0	391	39.1	347	34.7
1	471	47.1	455	45.5	431	43.1
2	18	1.8	133	13.3	174	17.4
3	1	0.1	16	1.6	38	3.8
4	0	0.0	4	0.4	7	0.7
5	0	0.0	1	0.1	3	0.3

Table (71): Imbalance when sample size is 100 for single layer 11

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	441	44.1	139	13.9	79	7.9
1	523	52.3	288	28.8	199	19.9
2	33	3.3	203	20.3	175	17.5
3	3	0.3	171	17.1	160	16.0
4	0	0.0	87	8.7	127	12.7
5	0	0.0	55	5.5	89	8.9
6	0	0.0	39	3.9	60	6.0
7	0	0.0	11	1.1	54	5.4
8	0	0.0	5	0.5	18	1.8
9	0	0.0	1	0.1	17	1.7
10	0	0.0	1	0.1	10	1.0
11	0	0.0	0	0.0	7	0.7
12	0	0.0	0	0.0	5	0.5

Table (72): Imbalance when sample size is 100 for single layer 12

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	472	47.2	144	14.4	89	8.9
1	485	48.5	225	22.5	181	18.1
2	41	4.1	203	20.3	175	17.5
3	2	0.2	161	16.1	160	16.0
4	0	0.0	119	11.9	122	12.2
5	0	0.0	73	7.3	83	8.3
6	0	0.0	33	3.3	73	7.3
7	0	0.0	24	2.4	45	4.5
8	0	0.0	14	1.4	38	3.8
9	0	0.0	4	0.4	11	1.1
10	0	0.0	0	0.0	14	1.4
11	0	0.0	0	0.0	7	0.7
12	0	0.0	0	0.0	2	0.2

Table (73): Imbalance when sample size is 200 for single layer 1

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	458	45.8	144	14.4	112	11.2
1	499	49.9	254	25.4	221	22.1
2	42	4.2	219	21.9	195	19.5
3	1	0.1	158	15.8	135	13.5
4	0	0.0	97	9.7	129	12.9
5	0	0.0	70	7.0	92	9.2
6	0	0.0	31	3.1	47	4.7
7	0	0.0	16	1.6	35	3.5
8	0	0.0	8	0.8	14	1.4
9	0	0.0	2	0.2	14	1.4
10	0	0.0	1	0.1	3	0.3
11	0	0.0	0	0.0	2	0.2
12	0	0.0	0	0.0	1	0.1

Table (74): Imbalance when sample size is 200 for single layer 2

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	457	45.7	134	13.4	105	10.5
1	509	50.9	276	27.6	194	19.4
2	31	3.1	203	20.3	190	19.0
3	3	0.3	151	15.1	165	16.5
4	0	0.0	109	10.9	111	11.1
5	0	0.0	54	5.4	98	9.8
6	0	0.0	34	3.4	60	6.0
7	0	0.0	25	2.5	41	4.1
8	0	0.0	8	0.8	15	1.5
9	0	0.0	6	0.6	11	1.1
10	0	0.0	0	0.0	7	0.7
11	0	0.0	0	0.0	2	0.2
12	0	0.0	0	0.0	1	0.1

Table (75): Imbalance when sample size is 200 for single layer 3

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	452	45.2	235	23.5	210	21.0
1	513	51.3	420	42.0	389	38.9
2	30	3.0	224	22.4	227	22.7
3	5	0.5	90	9.0	113	11.3
4	0	0.0	22	2.2	43	4.3
5	0	0.0	8	0.8	15	1.5
6	0	0.0	1	0.1	2	0.2
7	0	0.0	0	0.0	1	0.1

Table (76): Imbalance when sample size is 200 for single layer 4

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	446	44.6	254	25.4	214	21.4
1	527	52.7	432	43.2	409	40.9
2	27	2.7	197	19.7	220	22.0
3	0	0.0	90	9.0	105	10.5
4	0	0.0	21	2.1	35	3.5
5	0	0.0	5	0.5	11	1.1
6	0	0.0	1	0.1	3	0.3
7	0	0.0	0	0.0	2	0.2
8	0	0.0	0	0.0	1	0.1

Table (77): Imbalance when sample size is 200 for single layer 5

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	476	47.6	108	10.8	70	7.0
1	489	48.9	191	19.1	133	13.3
2	34	3.4	210	21.0	117	11.7
3	1	0.1	154	15.4	134	13.4
4	0	0.0	104	10.4	113	11.3
5	0	0.0	102	10.2	93	9.3
6	0	0.0	60	6.0	91	9.1
7	0	0.0	29	2.9	61	6.1
8	0	0.0	21	2.1	59	5.9
9	0	0.0	12	1.2	37	3.7
10	0	0.0	6	0.6	27	2.7
11	0	0.0	2	0.2	17	1.7
12	0	0.0	1	0.1	20	2.0
13	0	0.0	0	0.0	8	0.8
14	0	0.0	0	0.0	7	0.7
15	0	0.0	0	0.0	4	0.4
16	0	0.0	0	0.0	4	0.4
17	0	0.0	0	0.0	2	0.2
18	0	0.0	0	0.0	1	0.1
19	0	0.0	0	0.0	1	0.1
20	0	0.0	0	0.0	1	0.1

Table (78): Imbalance when sample size is 200 for single layer 6

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	468	46.8	96	9.6	67	6.7
1	494	49.4	190	19.0	147	14.7
2	34	3.4	160	16.0	129	12.9
3	4	0.4	153	15.3	130	13.0
4	0	0.0	132	13.2	118	11.8
5	0	0.0	104	10.4	86	8.6
6	0	0.0	74	7.4	80	8.0
7	0	0.0	34	3.4	60	6.0
8	0	0.0	33	3.3	63	6.3
9	0	0.0	15	1.5	27	2.7
10	0	0.0	5	0.5	22	2.2
11	0	0.0	1	0.1	30	3.0
12	0	0.0	1	0.1	14	1.4
13	0	0.0	1	0.1	12	1.2
14	0	0.0	1	0.1	5	0.5
15	0	0.0	0	0.0	3	0.3
16	0	0.0	0	0.0	4	0.4
17	0	0.0	0	0.0	2	0.2
18	0	0.0	0	0.0	1	0.1

Table (79): Imbalance when sample size is 200 for single layer 7

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	447	44.7	128	12.8	96	9.6
1	519	51.9	266	26.6	223	22.3
2	33	3.3	210	21.0	170	17.0
3	1	0.1	177	17.7	172	17.2
4	0	0.0	109	10.9	126	12.6
5	0	0.0	56	5.6	75	7.5
6	0	0.0	26	2.6	64	6.4
7	0	0.0	18	1.8	35	3.5
8	0	0.0	7	0.7	21	2.1
9	0	0.0	3	0.3	15	1.5
10	0	0.0	0	0.0	2	0.2
11	0	0.0	0	0.0	1	0.1

Table (80): Imbalance when sample size is 200 for single layer 8

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	440	44.0	120	12.0	129	12.9
1	523	52.3	271	27.1	242	24.2
2	35	3.5	210	21.0	154	15.4
3	2	0.2	160	16.0	152	15.2
4	0	0.0	101	10.1	114	11.4
5	0	0.0	76	7.6	84	8.4
6	0	0.0	37	3.7	45	4.5
7	0	0.0	14	1.4	30	3.0
8	0	0.0	6	0.6	26	2.6
9	0	0.0	3	0.3	10	1.0
10	0	0.0	1	0.1	7	0.7
11	0	0.0	1	0.1	7	0.7

Table (81): Imbalance when sample size is 200 for single layer 9

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	458	45.8	246	24.6	226	22.6
1	507	50.7	437	43.7	383	38.3
2	34	3.4	228	22.8	223	22.3
3	1	0.1	67	6.7	106	10.6
4	0	0.0	18	1.8	37	3.7
5	0	0.0	4	0.4	18	1.8
6	0	0.0	0	0.0	6	0.6
7	0	0.0	0	0.0	1	0.1

Table (82): Imbalance when sample size is 200 for single layer 10

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	492	49.2	273	27.3	250	25.0
1	477	47.7	376	37.6	346	34.6
2	30	3.0	225	22.5	223	22.3
3	1	0.1	97	9.7	114	11.4
4	0	0.0	22	2.2	47	4.7
5	0	0.0	5	0.5	15	1.5
6	0	0.0	2	0.2	2	0.2
7	0	0.0	0	0.0	3	0.3

Table (83): Imbalance when sample size is 200 for single layer 11

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	458	45.8	105	10.5	76	7.6
1	502	50.2	177	17.7	152	15.2
2	37	3.7	173	17.3	141	14.1
3	3	0.3	170	17.0	129	12.9
4	0	0.0	123	12.3	102	10.2
5	0	0.0	102	10.2	79	7.9
6	0	0.0	61	6.1	76	7.6
7	0	0.0	35	3.5	59	5.9
8	0	0.0	22	2.2	55	5.5
9	0	0.0	13	1.3	45	4.5
10	0	0.0	8	0.8	20	2.0
11	0	0.0	8	0.8	25	2.5
12	0	0.0	2	0.2	18	1.8
13	0	0.0	1	0.1	10	1.0
14	0	0.0	0	0.0	5	0.5
15	0	0.0	0	0.0	3	0.3
16	0	0.0	0	0.0	1	0.1
17	0	0.0	0	0.0	3	0.3
18	0	0.0	0	0.0	1	0.1

Table (84): Imbalance when sample size is 200 for single layer 12

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	460	46.0	98	9.8	68	6.8
1	505	50.5	184	18.4	105	10.5
2	31	3.1	164	16.4	138	13.8
3	4	0.4	142	14.2	150	15.0
4	0	0.0	113	11.3	111	11.1
5	0	0.0	94	9.4	102	10.2
6	0	0.0	73	7.3	74	7.4
7	0	0.0	55	5.5	62	6.2
8	0	0.0	29	2.9	37	3.7
9	0	0.0	23	2.3	33	3.3
10	0	0.0	12	1.2	33	3.3
11	0	0.0	9	0.9	31	3.1
12	0	0.0	1	0.1	20	2.0
13	0	0.0	2	0.2	16	1.6
14	0	0.0	1	0.1	5	0.5
15	0	0.0	0	0.0	6	0.6
16	0	0.0	0	0.0	1	0.1
17	0	0.0	0	0.0	4	0.4
18	0	0.0	0	0.0	4	0.4

Table (85): Imbalance when sample size is 400 for single layer 1

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	488	48.8	106	10.6	90	9.0
1	468	46.8	179	17.9	147	14.7
2	44	4.4	188	18.8	145	14.5
3	0	0.0	130	13.0	106	10.6
4	0	0.0	128	12.8	141	14.1
5	0	0.0	92	9.2	84	8.4
6	0	0.0	67	6.7	70	7.0
7	0	0.0	44	4.4	60	6.0
8	0	0.0	22	2.2	58	5.8
9	0	0.0	17	1.7	36	3.6
10	0	0.0	15	1.5	16	1.6
11	0	0.0	4	0.4	24	2.4
12	0	0.0	5	0.5	5	0.5
13	0	0.0	1	0.1	6	0.6
14	0	0.0	1	0.1	4	0.4
15	0	0.0	1	0.1	2	0.2
16	0	0.0	0	0.0	2	0.2
17	0	0.0	0	0.0	2	0.2
18	0	0.0	0	0.0	1	0.1
19	0	0.0	0	0.0	1	0.1

Table (86): Imbalance when sample size is 400 for single layer 2

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	445	44.5	74	7.4	74	7.4
1	520	52.0	196	19.6	150	15.0
2	31	3.1	178	17.8	125	12.5
3	4	0.4	158	15.8	140	14.0
4	0	0.0	119	11.9	108	10.8
5	0	0.0	90	9.0	90	9.0
6	0	0.0	62	6.2	70	7.0
7	0	0.0	44	4.4	61	6.1
8	0	0.0	27	2.7	58	5.8
9	0	0.0	28	2.8	45	4.5
10	0	0.0	13	1.3	25	2.5
11	0	0.0	7	0.7	19	1.9
12	0	0.0	2	0.2	11	1.1
13	0	0.0	1	0.1	8	0.8
14	0	0.0	1	0.1	2	0.2
15	0	0.0	0	0.0	7	0.7
16	0	0.0	0	0.0	3	0.3
17	0	0.0	0	0.0	3	0.3
18	0	0.0	0	0.0	1	0.1



Table (87): Imbalance when sample size is 400 for single layer 3

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	484	48.4	175	17.5	152	15.2
1	494	49.4	303	30.3	264	26.4
2	22	2.2	246	24.6	239	23.9
3	0	0.0	154	15.4	167	16.7
4	0	0.0	67	6.7	85	8.5
5	0	0.0	33	3.3	54	5.4
6	0	0.0	17	1.7	27	2.7
7	0	0.0	4	0.4	8	0.8
8	0	0.0	1	0.1	3	0.3
9	0	0.0	0	0.0	1	0.1

Table (88): Imbalance when sample size is 400 for single layer 4

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	468	46.8	203	20.3	154	15.4
1	500	50.0	319	31.9	283	28.3
2	31	3.1	221	22.1	235	23.5
3	1	0.1	145	14.5	153	15.3
4	0	0.0	65	6.5	83	8.3
5	0	0.0	30	3.0	55	5.5
6	0	0.0	10	1.0	22	2.2
7	0	0.0	7	0.7	10	1.0
8	0	0.0	0	0.0	5	0.5

Table (89): Imbalance when sample size is 400 for single layer 5

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	468	46.8	89	8.9	53	5.3
1	494	49.4	153	15.3	95	9.5
2	35	3.5	143	14.3	104	10.4
3	3	0.3	119	11.9	80	8.0
4	0	0.0	99	9.9	82	8.2
5	0	0.0	104	10.4	76	7.6
6	0	0.0	83	8.3	63	6.3
7	0	0.0	46	4.6	76	7.6
8	0	0.0	36	3.6	65	6.5
9	0	0.0	48	4.8	57	5.7
10	0	0.0	31	3.1	49	4.9
11	0	0.0	18	1.8	45	4.5
12	0	0.0	14	1.4	31	3.1
13	0	0.0	6	0.6	27	2.7
14	0	0.0	5	0.5	18	1.8
15	0	0.0	2	0.2	19	1.9
16	0	0.0	2	0.2	9	0.9
17	0	0.0	1	0.1	12	1.2
18	0	0.0	1	0.1	11	1.1
19	0	0.0	0	0.0	7	0.7
20	0	0.0	0	0.0	10	1.0
21	0	0.0	0	0.0	2	0.2
22	0	0.0	0	0.0	9	0.9

Table (90): Imbalance when sample size is 400 for single layer 6

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	454	45.4	64	6.4	43	4.3
1	506	50.6	129	12.9	92	9.2
2	34	3.4	121	12.1	98	9.8
3	6	0.6	132	13.2	103	10.3
4	0	0.0	109	10.9	85	8.5
5	0	0.0	97	9.7	81	8.1
6	0	0.0	78	7.8	77	7.7
7	0	0.0	60	6.0	65	6.5
8	0	0.0	51	5.1	57	5.7
9	0	0.0	46	4.6	49	4.9
10	0	0.0	37	3.7	47	4.7
11	0	0.0	25	2.5	41	4.1
12	0	0.0	15	1.5	37	3.7
13	0	0.0	12	1.2	30	3.0
14	0	0.0	7	0.7	16	1.6
15	0	0.0	10	1.0	25	2.5
16	0	0.0	3	0.3	15	1.5

17	0	0.0	3	0.3	11	1.1
18	0	0.0	1	0.1	7	0.7
19	0	0.0	0	0.0	8	0.8
20	0	0.0	0	0.0	4	0.4
21	0	0.0	0	0.0	4	0.4
22	0	0.0	0	0.0	5	0.5

Table (91): Imbalance when sample size is 400 for single layer 7

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	466	46.6	97	9.7	81	8.1
1	495	49.5	193	19.3	146	14.6
2	36	3.6	181	18.1	163	16.3
3	3	0.3	130	13.0	124	12.4
4	0	0.0	132	13.2	106	10.6
5	0	0.0	98	9.8	102	10.2
6	0	0.0	61	6.1	78	7.8
7	0	0.0	56	5.6	67	6.7
8	0	0.0	22	2.2	33	3.3
9	0	0.0	18	1.8	31	3.1
10	0	0.0	6	0.6	20	2.0
11	0	0.0	3	0.3	15	1.5
12	0	0.0	3	0.3	14	1.4
13	0	0.0	0	0.0	7	0.7
14	0	0.0	0	0.0	5	0.5
15	0	0.0	0	0.0	3	0.3
16	0	0.0	0	0.0	2	0.2
17	0	0.0	0	0.0	2	0.2
18	0	0.0	0	0.0	1	0.1

Table (92): Imbalance when sample size is 400 for single layer 8

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	497	49.7	96	9.6	85	8.5
1	474	47.4	174	17.4	132	13.2
2	29	2.9	166	16.6	148	14.8
3	0	0.0	126	12.6	123	12.3
4	0	0.0	132	13.2	113	11.3
5	0	0.0	94	9.4	100	10.0
6	0	0.0	75	7.5	83	8.3
7	0	0.0	37	3.7	63	6.3
8	0	0.0	38	3.8	51	5.1
9	0	0.0	31	3.1	34	3.4
10	0	0.0	16	1.6	26	2.6
11	0	0.0	9	0.9	13	1.3
12	0	0.0	2	0.2	13	1.3
13	0	0.0	2	0.2	6	0.6
14	0	0.0	1	0.1	3	0.3
15	0	0.0	1	0.1	2	0.2
16	0	0.0	0	0.0	3	0.3
17	0	0.0	0	0.0	1	0.1
18	0	0.0	0	0.0	1	0.1

Table (93): Imbalance when sample size is 400 for single layer 9

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	473	47.3	200	20.0	157	15.7
1	475	47.5	296	29.6	273	27.3
2	49	4.9	245	24.5	217	21.7
3	3	0.3	148	14.8	154	15.4
4	0	0.0	67	6.7	121	12.1
5	0	0.0	32	3.2	44	4.4
6	0	0.0	9	0.9	23	2.3
7	0	0.0	2	0.2	5	0.5
8	0	0.0	1	0.1	1	0.1
9	0	0.0	0	0.0	2	0.2
10	0	0.0	0	0.0	3	0.3

Table (94): Imbalance when sample size is 400 for single layer 10

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	484	48.4	199	19.9	146	14.6
1	478	47.8	310	31.0	256	25.6
2	36	3.6	237	23.7	251	25.1
3	2	0.2	140	14.0	163	16.3
4	0	0.0	77	7.7	97	9.7
5	0	0.0	27	2.7	48	4.8
6	0	0.0	6	0.6	22	2.2
7	0	0.0	3	0.3	11	1.1
8	0	0.0	1	0.1	3	0.3
9	0	0.0	0	0.0	2	0.2
10	0	0.0	0	0.0	1	0.1

Table (95): Imbalance when sample size is 400 for single layer 11

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	484	48.4	82	8.2	41	4.1
1	484	48.4	132	13.2	107	10.7
2	31	3.1	149	14.9	96	9.6
3	1	0.1	119	11.9	105	10.5
4	0	0.0	100	10.0	97	9.7
5	0	0.0	79	7.9	63	6.3
6	0	0.0	71	7.1	70	7.0
7	0	0.0	75	7.5	58	5.8
8	0	0.0	58	5.8	62	6.2
9	0	0.0	42	4.2	50	5.0
10	0	0.0	25	2.5	54	5.4
11	0	0.0	19	1.9	29	2.9
12	0	0.0	20	2.0	34	3.4
13	0	0.0	11	1.1	26	2.6
14	0	0.0	6	0.6	27	2.7
15	0	0.0	5	0.5	20	2.0
16	0	0.0	4	0.4	16	1.6
17	0	0.0	3	0.3	16	1.6
18	0	0.0	0	0.0	8	0.8
19	0	0.0	0	0.0	6	0.6
20	0	0.0	0	0.0	4	0.4
21	0	0.0	0	0.0	4	0.4
22	0	0.0	0	0.0	7	0.7

Table (96): Imbalance when sample size is 400 for single layer 12

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	474	47.4	64	6.4	52	5.2
1	485	48.5	130	13.0	88	8.8
2	39	3.9	121	12.1	83	8.3
3	2	0.2	101	10.1	93	9.3
4	0	0.0	98	9.8	117	11.7
5	0	0.0	93	9.3	71	7.1
6	0	0.0	78	7.8	77	7.7
7	0	0.0	64	6.4	69	6.9
8	0	0.0	55	5.5	63	6.3
9	0	0.0	38	3.8	55	5.5
10	0	0.0	45	4.5	38	3.8
11	0	0.0	32	3.2	34	3.4
12	0	0.0	27	2.7	26	2.6
13	0	0.0	13	1.3	29	2.9
14	0	0.0	14	1.4	24	2.4
15	0	0.0	8	0.8	23	2.3
16	0	0.0	8	0.8	16	1.6
17	0	0.0	6	0.6	12	1.2
18	0	0.0	2	0.2	13	1.3
19	0	0.0	2	0.2	4	0.4
20	0	0.0	1	0.1	3	0.3
21	0	0.0	0	0.0	7	0.7
22	0	0.0	0	0.0	3	0.3

Table (97): Imbalance when sample size is 600 for single layer 1

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	452	45.2	81	8.1	66	6.6
1	503	50.3	156	15.6	117	11.7
2	43	4.3	136	13.6	119	11.9
3	2	0.2	124	12.4	106	10.6
4	0	0.0	125	12.5	93	9.3
5	0	0.0	115	11.5	100	10.0
6	0	0.0	65	6.5	81	8.1
7	0	0.0	57	5.7	75	7.5
8	0	0.0	51	5.1	57	5.7
9	0	0.0	31	3.1	57	5.7
10	0	0.0	24	2.4	35	3.5
11	0	0.0	14	1.4	21	2.1
12	0	0.0	6	0.6	23	2.3
13	0	0.0	4	0.4	16	1.6
14	0	0.0	6	0.6	9	0.9
15	0	0.0	3	0.3	6	0.6
16	0	0.0	1	0.1	7	0.7
17	0	0.0	1	0.1	5	0.5
18	0	0.0	0	0.0	4	0.4
19	0	0.0	0	0.0	2	0.2
20	0	0.0	0	0.0	1	0.1

Table (98): Imbalance when sample size is 600 for single layer 2

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	486	48.6	72	7.2	67	6.7
1	485	48.5	155	15.5	127	12.7
2	25	2.5	143	14.3	116	11.6
3	4	0.4	126	12.6	93	9.3
4	0	0.0	130	13.0	112	11.2
5	0	0.0	93	9.3	99	9.9
6	0	0.0	79	7.9	81	8.1
7	0	0.0	60	6.0	68	6.8
8	0	0.0	52	5.2	53	5.3
9	0	0.0	30	3.0	39	3.9
10	0	0.0	20	2.0	30	3.0
11	0	0.0	14	1.4	25	2.5
12	0	0.0	13	1.3	32	3.2
13	0	0.0	7	0.7	22	2.2
14	0	0.0	2	0.2	12	1.2
15	0	0.0	3	0.3	10	1.0
16	0	0.0	1	0.1	5	0.5
17	0	0.0	0	0.0	3	0.3
18	0	0.0	0	0.0	2	0.2
19	0	0.0	0	0.0	2	0.2
20	0	0.0	0	0.0	1	0.1
21	0	0.0	0	0.0	1	0.1

Table (99): Imbalance when sample size is 600 for single layer 3

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	469	46.9	155	15.5	126	12.6
1	506	50.6	283	28.3	261	26.1
2	25	2.5	214	21.4	191	19.1
3	0	0.0	164	16.4	158	15.8
4	0	0.0	91	9.1	119	11.9
5	0	0.0	50	5.0	63	6.3
6	0	0.0	29	2.9	40	4.0
7	0	0.0	7	0.7	17	1.7
8	0	0.0	4	0.4	15	1.5
9	0	0.0	2	0.2	7	0.7
10	0	0.0	1	0.1	3	0.3

Table (100): Imbalance when sample size is 600 for single layer 4

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	466	46.6	145	14.5	128	12.8
1	495	49.5	256	25.6	253	25.3
2	37	3.7	222	22.2	201	20.1
3	2	0.2	160	16.0	163	16.3
4	0	0.0	96	9.6	105	10.5

5	0	0.0	65	6.5	58	5.8
6	0	0.0	32	3.2	47	4.7
7	0	0.0	16	1.6	18	1.8
8	0	0.0	8	0.8	19	1.9
9	0	0.0	0	0.0	3	0.3
10	0	0.0	0	0.0	2	0.2
11	0	0.0	0	0.0	2	0.2
12	0	0.0	0	0.0	1	0.1

Table (101): Imbalance when sample size is 600 for single layer 5

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	447	44.7	73	7.3	45	4.5
1	515	51.5	129	12.9	84	8.4
2	37	3.7	109	10.9	86	8.6
3	1	0.1	115	11.5	64	6.4
4	0	0.0	97	9.7	58	5.8
5	0	0.0	103	10.3	80	8.0
6	0	0.0	68	6.8	67	6.7
7	0	0.0	54	5.4	71	7.1
8	0	0.0	52	5.2	53	5.3
9	0	0.0	49	4.9	53	5.3
10	0	0.0	39	3.9	49	4.9
11	0	0.0	30	3.0	53	5.3
12	0	0.0	24	2.4	38	3.8
13	0	0.0	21	2.1	29	2.9
14	0	0.0	16	1.6	18	1.8
15	0	0.0	8	0.8	30	3.0
16	0	0.0	2	0.2	22	2.2
17	0	0.0	4	0.4	19	1.9
18	0	0.0	3	0.3	20	2.0
19	0	0.0	3	0.3	16	1.6
20	0	0.0	1	0.1	12	1.2
21	0	0.0	0	0.0	6	0.6
22	0	0.0	0	0.0	5	0.5
23	0	0.0	0	0.0	22	2.2

Table (102): Imbalance when sample size is 600 for single layer 6

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	459	45.9	58	5.8	45	4.5
1	499	49.9	127	12.7	80	8.0
2	39	3.9	102	10.2	81	8.1
3	3	0.3	97	9.7	71	7.1
4	0	0.0	99	9.9	72	7.2
5	0	0.0	79	7.9	67	6.7
6	0	0.0	79	7.9	51	5.1
7	0	0.0	73	7.3	67	6.7
8	0	0.0	59	5.9	57	5.7
9	0	0.0	54	5.4	58	5.8
10	0	0.0	26	2.6	49	4.9
11	0	0.0	29	2.9	45	4.5
12	0	0.0	32	3.2	47	4.7
13	0	0.0	20	2.0	39	3.9
14	0	0.0	16	1.6	26	2.6
15	0	0.0	9	0.9	20	2.0
16	0	0.0	13	1.3	19	1.9
17	0	0.0	9	0.9	21	2.1
18	0	0.0	7	0.7	17	1.7
19	0	0.0	3	0.3	14	1.4
20	0	0.0	5	0.5	17	1.7
21	0	0.0	2	0.2	11	1.1
22	0	0.0	1	0.1	11	1.1
23	0	0.0	1	0.1	15	1.5

Table (103): Imbalance when sample size is 600 for single layer 7

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	449	44.9	82	8.2	64	6.4
1	515	51.5	157	15.7	119	11.9
2	31	3.1	124	12.4	98	9.8
3	4	0.4	137	13.7	114	11.4
4	1	0.1	129	12.9	93	9.3
5	0	0.0	98	9.8	88	8.8

6	0	0.0	83	8.3	95	9.5
7	0	0.0	72	7.2	94	9.4
8	0	0.0	35	3.5	58	5.8
9	0	0.0	30	3.0	41	4.1
10	0	0.0	16	1.6	35	3.5
11	0	0.0	14	1.4	28	2.8
12	0	0.0	6	0.6	18	1.8
13	0	0.0	7	0.7	17	1.7
14	0	0.0	5	0.5	15	1.5
15	0	0.0	4	0.4	12	1.2
16	0	0.0	1	0.1	3	0.3
17	0	0.0	0	0.0	3	0.3
18	0	0.0	0	0.0	1	0.1
19	0	0.0	0	0.0	2	0.2
20	0	0.0	0	0.0	1	0.1
21	0	0.0	0	0.0	1	0.1

Table (104): Imbalance when sample size is 600 for single layer 8

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	474	47.4	73	7.3	54	5.4
1	495	49.5	151	15.1	148	14.8
2	27	2.7	148	14.8	131	13.1
3	4	0.4	116	11.6	111	11.1
4	0	0.0	120	12.0	101	10.1
5	0	0.0	100	10.0	95	9.5
6	0	0.0	71	7.1	82	8.2
7	0	0.0	67	6.7	55	5.5
8	0	0.0	43	4.3	64	6.4
9	0	0.0	32	3.2	44	4.4
10	0	0.0	29	2.9	37	3.7
11	0	0.0	22	2.2	15	1.5
12	0	0.0	10	1.0	20	2.0
13	0	0.0	7	0.7	20	2.0
14	0	0.0	6	0.6	9	0.9
15	0	0.0	1	0.1	4	0.4
16	0	0.0	1	0.1	2	0.2
17	0	0.0	2	0.2	5	0.5
18	0	0.0	1	0.1	1	0.1
19	0	0.0	0	0.0	1	0.1
20	0	0.0	0	0.0	1	0.1

Table (105): Imbalance when sample size is 600 for single layer 9

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	477	47.7	147	14.7	117	11.7
1	485	48.5	278	27.8	248	24.8
2	34	3.4	239	23.9	214	21.4
3	4	0.4	147	14.7	130	13.0
4	0	0.0	99	9.9	120	12.0
5	0	0.0	53	5.3	76	7.6
6	0	0.0	26	2.6	44	4.4
7	0	0.0	9	0.9	28	2.8
8	0	0.0	2	0.2	15	1.5
9	0	0.0	0	0.0	7	0.7
10	0	0.0	0	0.0	1	0.1

Table (106): Imbalance when sample size is 600 for single layer 10

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	484	48.4	168	16.8	150	15.0
1	481	48.1	274	27.4	226	22.6
2	33	3.3	231	23.1	205	20.5
3	2	0.2	145	14.5	151	15.1
4	0	0.0	90	9.0	108	10.8
5	0	0.0	51	5.1	70	7.0
6	0	0.0	25	2.5	41	4.1
7	0	0.0	12	1.2	25	2.5
8	0	0.0	3	0.3	12	1.2
9	0	0.0	1	0.1	10	1.0
10	0	0.0	0	0.0	1	0.1
11	0	0.0	0	0.0	1	0.1

Table (107): Imbalance when sample size is 600 for single layer 11

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	461	46.1	47	4.7	38	3.8
1	492	49.2	107	10.7	77	7.7
2	44	4.4	123	12.3	98	9.8
3	3	0.3	111	11.1	71	7.1
4	0	0.0	108	10.8	60	6.0
5	0	0.0	85	8.5	84	8.4
6	0	0.0	82	8.2	59	5.9
7	0	0.0	68	6.8	55	5.5
8	0	0.0	54	5.4	61	6.1
9	0	0.0	48	4.8	59	5.9
10	0	0.0	32	3.2	51	5.1
11	0	0.0	37	3.7	39	3.9
12	0	0.0	23	2.3	45	4.5
13	0	0.0	19	1.9	36	3.6
14	0	0.0	19	1.9	20	2.0
15	0	0.0	11	1.1	15	1.5
16	0	0.0	9	0.9	31	3.1
17	0	0.0	6	0.6	19	1.9
18	0	0.0	4	0.4	14	1.4
19	0	0.0	3	0.3	13	1.3
20	0	0.0	2	0.2	7	0.7
21	0	0.0	1	0.1	14	1.4
22	0	0.0	1	0.1	7	0.7
23	0	0.0	0	0.0	27	2.7

Table (108): Imbalance when sample size is 600 for single layer 12

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	454	45.4	55	5.5	40	4.0
1	509	50.9	94	9.4	89	8.9
2	34	3.4	97	9.7	77	7.7
3	3	0.3	94	9.4	92	9.2
4	0	0.0	78	7.8	75	7.5
5	0	0.0	88	8.8	73	7.3
6	0	0.0	73	7.3	76	7.6
7	0	0.0	66	6.6	54	5.4
8	0	0.0	62	6.2	59	5.9
9	0	0.0	69	6.9	54	5.4
10	0	0.0	42	4.2	40	4.0
11	0	0.0	38	3.8	44	4.4
12	0	0.0	29	2.9	39	3.9
13	0	0.0	26	2.6	41	4.1
14	0	0.0	26	2.6	20	2.0
15	0	0.0	14	1.4	15	1.5
16	0	0.0	11	1.1	24	2.4
17	0	0.0	7	0.7	18	1.8
18	0	0.0	6	0.6	11	1.1
19	0	0.0	6	0.6	13	1.3
20	0	0.0	4	0.4	10	1.0
21	0	0.0	5	0.5	8	0.8
22	0	0.0	2	0.2	4	0.4
23	0	0.0	8	0.8	24	2.4

Table (109): Imbalance when sample size is 800 for single layer 1

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	463	46.3	77	7.7	52	5.2
1	501	50.1	138	13.8	101	10.1
2	32	3.2	137	13.7	86	8.6
3	4	0.4	108	10.8	116	11.6
4	0	0.0	80	8.0	98	9.8
5	0	0.0	101	10.1	81	8.1
6	0	0.0	88	8.8	83	8.3
7	0	0.0	61	6.1	87	8.7
8	0	0.0	43	4.3	64	6.4
9	0	0.0	48	4.8	47	4.7
10	0	0.0	31	3.1	40	4.0
11	0	0.0	22	2.2	27	2.7
12	0	0.0	21	2.1	33	3.3
13	0	0.0	17	1.7	23	2.3
14	0	0.0	11	1.1	19	1.9

15	0	0.0	5	0.5	12	1.2
16	0	0.0	6	0.6	6	0.6
17	0	0.0	4	0.4	8	0.8
18	0	0.0	1	0.1	6	0.6
19	0	0.0	1	0.1	1	0.1
20	0	0.0	0	0.0	3	0.3
21	0	0.0	0	0.0	1	0.1
22	0	0.0	0	0.0	1	0.1
23	0	0.0	0	0.0	4	0.4
24	0	0.0	0	0.0	1	0.1

Table (110): Imbalance when sample size is 800 for single layer 2

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	486	48.6	73	7.3	56	5.6
1	481	48.1	128	12.8	94	9.4
2	30	3.0	137	13.7	94	9.4
3	3	0.3	104	10.4	95	9.5
4	0	0.0	112	11.2	93	9.3
5	0	0.0	96	9.6	94	9.4
6	0	0.0	87	8.7	80	8.0
7	0	0.0	64	6.4	64	6.4
8	0	0.0	47	4.7	68	6.8
9	0	0.0	50	5.0	48	4.8
10	0	0.0	35	3.5	51	5.1
11	0	0.0	23	2.3	29	2.9
12	0	0.0	16	1.6	29	2.9
13	0	0.0	14	1.4	28	2.8
14	0	0.0	7	0.7	24	2.4
15	0	0.0	3	0.3	17	1.7
16	0	0.0	2	0.2	8	0.8
17	0	0.0	2	0.2	10	1.0
18	0	0.0	0	0.0	8	0.8
19	0	0.0	0	0.0	3	0.3
20	0	0.0	0	0.0	2	0.2
21	0	0.0	0	0.0	1	0.1
22	0	0.0	0	0.0	2	0.2
23	0	0.0	0	0.0	2	0.2

Table (111): Imbalance when sample size is 800 for single layer 3

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	449	44.9	131	13.1	103	10.3
1	518	51.8	239	23.9	212	21.2
2	33	3.3	195	19.5	177	17.7
3	0	0.0	165	16.5	174	17.4
4	0	0.0	105	10.5	118	11.8
5	0	0.0	80	8.0	79	7.9
6	0	0.0	37	3.7	61	6.1
7	0	0.0	27	2.7	39	3.9
8	0	0.0	14	1.4	19	1.9
9	0	0.0	7	0.7	11	1.1
10	0	0.0	0	0.0	3	0.3
11	0	0.0	0	0.0	2	0.2
12	0	0.0	0	0.0	1	0.1
13	0	0.0	0	0.0	1	0.1

Table (112): Imbalance when sample size is 800 for single layer 4

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	467	46.7	118	11.8	109	10.9
1	508	50.8	258	25.8	200	20.0
2	24	2.4	183	18.3	155	15.5
3	1	0.1	159	15.9	172	17.2
4	0	0.0	123	12.3	143	14.3
5	0	0.0	66	6.6	83	8.3
6	0	0.0	55	5.5	54	5.4
7	0	0.0	20	2.0	33	3.3
8	0	0.0	12	1.2	19	1.9
9	0	0.0	5	0.5	15	1.5
10	0	0.0	1	0.1	8	0.8
11	0	0.0	0	0.0	5	0.5
12	0	0.0	0	0.0	3	0.3
13	0	0.0	0	0.0	1	0.1



Table (113): Imbalance when sample size is 800 for single layer 5

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	448	44.8	40	4.0	27	2.7
1	519	51.9	113	11.3	73	7.3
2	31	3.1	102	10.2	62	6.2
3	2	0.2	108	10.8	65	6.5
4	0	0.0	96	9.6	74	7.4
5	0	0.0	85	8.5	68	6.8
6	0	0.0	80	8.0	61	6.1
7	0	0.0	75	7.5	62	6.2
8	0	0.0	57	5.7	59	5.9
9	0	0.0	55	5.5	64	6.4
10	0	0.0	43	4.3	47	4.7
11	0	0.0	27	2.7	42	4.2
12	0	0.0	17	1.7	35	3.5
13	0	0.0	28	2.8	48	4.8
14	0	0.0	17	1.7	26	2.6
15	0	0.0	10	1.0	22	2.2
16	0	0.0	16	1.6	27	2.7
17	0	0.0	15	1.5	25	2.5
18	0	0.0	4	0.4	17	1.7
19	0	0.0	2	0.2	15	1.5
20	0	0.0	2	0.2	11	1.1
21	0	0.0	2	0.2	20	2.0
22	0	0.0	4	0.4	13	1.3
23	0	0.0	1	0.1	2	0.2
24	0	0.0	1	0.1	3	0.3
25	0	0.0	0	0.0	9	0.9
26	0	0.0	0	0.0	3	0.3
27	0	0.0	0	0.0	4	0.4
28	0	0.0	0	0.0	5	0.5
29	0	0.0	0	0.0	4	0.4
30	0	0.0	0	0.0	7	0.7

Table (114): Imbalance when sample size is 800 for single layer 6

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	469	46.9	45	4.5	36	3.6
1	488	48.8	91	9.1	71	7.1
2	41	4.1	103	10.3	71	7.1
3	2	0.2	107	10.7	60	6.0
4	0	0.0	80	8.0	57	5.7
5	0	0.0	76	7.6	64	6.4
6	0	0.0	89	8.9	61	6.1
7	0	0.0	58	5.8	59	5.9
8	0	0.0	50	5.0	56	5.6
9	0	0.0	52	5.2	47	4.7
10	0	0.0	41	4.1	53	5.3
11	0	0.0	39	3.9	46	4.6
12	0	0.0	44	4.4	44	4.4
13	0	0.0	32	3.2	35	3.5
14	0	0.0	20	2.0	41	4.1
15	0	0.0	15	1.5	32	3.2
16	0	0.0	16	1.6	32	3.2
17	0	0.0	6	0.6	21	2.1
18	0	0.0	16	1.6	15	1.5
19	0	0.0	5	0.5	18	1.8
20	0	0.0	3	0.3	19	1.9
21	0	0.0	8	0.8	8	0.8
22	0	0.0	2	0.2	12	1.2
23	0	0.0	1	0.1	11	1.1
24	0	0.0	1	0.1	4	0.4
25	0	0.0	0	0.0	6	0.6
26	0	0.0	0	0.0	6	0.6
27	0	0.0	0	0.0	6	0.6
28	0	0.0	0	0.0	1	0.1
29	0	0.0	0	0.0	3	0.3
30	0	0.0	0	0.0	5	0.5

Table (115): Imbalance when sample size is 800 for single layer 7

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	506	50.6	78	7.8	53	5.3
1	463	46.3	118	11.8	88	8.8
2	30	3.0	141	14.1	117	11.7
3	1	0.1	110	11.0	86	8.6
4	0	0.0	116	11.6	95	9.5
5	0	0.0	89	8.9	79	7.9
6	0	0.0	87	8.7	89	8.9
7	0	0.0	59	5.9	60	6.0
8	0	0.0	54	5.4	69	6.9
9	0	0.0	46	4.6	60	6.0
10	0	0.0	33	3.3	48	4.8
11	0	0.0	24	2.4	40	4.0
12	0	0.0	15	1.5	29	2.9
13	0	0.0	14	1.4	24	2.4
14	0	0.0	9	0.9	17	1.7
15	0	0.0	4	0.4	12	1.2
16	0	0.0	2	0.2	10	1.0
17	0	0.0	1	0.1	7	0.7
18	0	0.0	0	0.0	5	0.5
19	0	0.0	0	0.0	6	0.6
20	0	0.0	0	0.0	2	0.2
21	0	0.0	0	0.0	1	0.1
22	0	0.0	0	0.0	2	0.2
23	0	0.0	0	0.0	1	0.1

Table (116): Imbalance when sample size is 800 for single layer 8

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	462	46.2	65	6.5	38	3.8
1	514	51.4	132	13.2	101	10.1
2	23	2.3	114	11.4	112	11.2
3	1	0.1	123	12.3	109	10.9
4	0	0.0	104	10.4	94	9.4
5	0	0.0	89	8.9	84	8.4
6	0	0.0	79	7.9	74	7.4
7	0	0.0	72	7.2	70	7.0
8	0	0.0	60	6.0	51	5.1
9	0	0.0	54	5.4	44	4.4
10	0	0.0	31	3.1	55	5.5
11	0	0.0	20	2.0	46	4.6
12	0	0.0	14	1.4	17	1.7
13	0	0.0	17	1.7	31	3.1
14	0	0.0	13	1.3	23	2.3
15	0	0.0	3	0.3	20	2.0
16	0	0.0	3	0.3	9	0.9
17	0	0.0	2	0.2	8	0.8
18	0	0.0	2	0.2	3	0.3
19	0	0.0	2	0.2	1	0.1
20	0	0.0	1	0.1	4	0.4
21	0	0.0	0	0.0	3	0.3
22	0	0.0	0	0.0	1	0.1
23	0	0.0	0	0.0	1	0.1
24	0	0.0	0	0.0	1	0.1

Table (117): Imbalance when sample size is 800 for single layer 9

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	449	44.9	140	14.0	102	10.2
1	514	51.4	230	23.0	218	21.8
2	36	3.6	187	18.7	175	17.5
3	1	0.1	174	17.4	162	16.2
4	0	0.0	99	9.9	116	11.6
5	0	0.0	84	8.4	85	8.5
6	0	0.0	46	4.6	59	5.9
7	0	0.0	21	2.1	38	3.8
8	0	0.0	10	1.0	27	2.7
9	0	0.0	6	0.6	10	1.0
10	0	0.0	3	0.3	5	0.5
11	0	0.0	0	0.0	1	0.1
12	0	0.0	0	0.0	1	0.1
13	0	0.0	0	0.0	1	0.1

Table (118): Imbalance when sample size is 800 for single layer 10

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	479	47.9	130	13.0	117	11.7
1	477	47.7	223	22.3	209	20.9
2	41	4.1	222	22.2	195	19.5
3	3	0.3	166	16.6	141	14.1
4	0	0.0	104	10.4	121	12.1
5	0	0.0	67	6.7	88	8.8
6	0	0.0	53	5.3	57	5.7
7	0	0.0	17	1.7	31	3.1
8	0	0.0	9	0.9	21	2.1
9	0	0.0	7	0.7	9	0.9
10	0	0.0	2	0.2	6	0.6
11	0	0.0	0	0.0	1	0.1
12	0	0.0	0	0.0	3	0.3
13	0	0.0	0	0.0	1	0.1

Table (119): Imbalance when sample size is 800 for single layer 11

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	471	47.1	61	6.1	27	2.7
1	485	48.5	94	9.4	76	7.6
2	41	4.1	99	9.9	63	6.3
3	3	0.3	101	10.1	58	5.8
4	0	0.0	94	9.4	68	6.8
5	0	0.0	78	7.8	58	5.8
6	0	0.0	80	8.0	71	7.1
7	0	0.0	60	6.0	63	6.3
8	0	0.0	58	5.8	53	5.3
9	0	0.0	52	5.2	46	4.6
10	0	0.0	50	5.0	56	5.6
11	0	0.0	36	3.6	45	4.5
12	0	0.0	25	2.5	37	3.7
13	0	0.0	27	2.7	39	3.9
14	0	0.0	21	2.1	32	3.2
15	0	0.0	22	2.2	24	2.4
16	0	0.0	12	1.2	28	2.8
17	0	0.0	7	0.7	31	3.1
18	0	0.0	6	0.6	23	2.3
19	0	0.0	6	0.6	16	1.6
20	0	0.0	3	0.3	12	1.2
21	0	0.0	2	0.2	12	1.2
22	0	0.0	1	0.1	14	1.4
23	0	0.0	1	0.1	2	0.2
24	0	0.0	1	0.1	9	0.9
25	0	0.0	2	0.2	5	0.5
26	0	0.0	1	0.1	7	0.7
27	0	0.0	0	0.0	6	0.6
28	0	0.0	0	0.0	7	0.7
29	0	0.0	0	0.0	5	0.5
30	0	0.0	0	0.0	7	0.7

Table (120): Imbalance when sample size is 800 for single layer 12

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	477	47.7	35	3.5	39	3.9
1	492	49.2	96	9.6	71	7.1
2	28	2.8	81	8.1	79	7.9
3	3	0.3	73	7.3	67	6.7
4	0	0.0	89	8.9	72	7.2
5	0	0.0	66	6.6	67	6.7
6	0	0.0	86	8.6	47	4.7
7	0	0.0	71	7.1	57	5.7
8	0	0.0	59	5.9	60	6.0
9	0	0.0	46	4.6	60	6.0
10	0	0.0	42	4.2	50	5.0
11	0	0.0	36	3.6	36	3.6
12	0	0.0	39	3.9	39	3.9
13	0	0.0	38	3.8	24	2.4
14	0	0.0	23	2.3	31	3.1
15	0	0.0	29	2.9	31	3.1
16	0	0.0	24	2.4	26	2.6

17	0	0.0	15	1.5	31	3.1
18	0	0.0	13	1.3	23	2.3
19	0	0.0	12	1.2	15	1.5
20	0	0.0	5	0.5	10	1.0
21	0	0.0	6	0.6	12	1.2
22	0	0.0	4	0.4	5	0.5
23	0	0.0	3	0.3	13	1.3
24	0	0.0	3	0.3	13	1.3
25	0	0.0	2	0.2	4	0.4
26	0	0.0	2	0.2	5	0.5
27	0	0.0	1	0.1	3	0.3
28	0	0.0	1	0.1	1	0.1
29	0	0.0	0	0.0	1	0.1
30	0	0.0	0	0.0	8	0.8

Table (121): Imbalance when sample size is 1000 for single layer 1

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	477	47.7	51	5.1	56	5.6
1	487	48.7	90	9.0	97	9.7
2	34	3.4	118	11.8	98	9.8
3	2	0.2	111	11.1	93	9.3
4	0	0.0	117	11.7	81	8.1
5	0	0.0	90	9.0	73	7.3
6	0	0.0	84	8.4	69	6.9
7	0	0.0	72	7.2	67	6.7
8	0	0.0	46	4.6	56	5.6
9	0	0.0	67	6.7	51	5.1
10	0	0.0	31	3.1	68	6.8
11	0	0.0	24	2.4	47	4.7
12	0	0.0	25	2.5	34	3.4
13	0	0.0	19	1.9	22	2.2
14	0	0.0	17	1.7	16	1.6
15	0	0.0	15	1.5	17	1.7
16	0	0.0	12	1.2	12	1.2
17	0	0.0	7	0.7	8	0.8
18	0	0.0	1	0.1	10	1.0
19	0	0.0	1	0.1	7	0.7
20	0	0.0	2	0.2	9	0.9
21	0	0.0	0	0.0	3	0.3
22	0	0.0	0	0.0	2	0.2
23	0	0.0	0	0.0	2	0.2
24	0	0.0	0	0.0	2	0.2

Table (122): Imbalance when sample size is 1000 for single layer 2

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	484	48.4	64	6.4	60	6.0
1	477	47.7	103	10.3	88	8.8
2	37	3.7	118	11.8	93	9.3
3	1	0.1	96	9.6	73	7.3
4	1	0.1	104	10.4	91	9.1
5	0	0.0	99	9.9	77	7.7
6	0	0.0	87	8.7	64	6.4
7	0	0.0	63	6.3	71	7.1
8	0	0.0	70	7.0	74	7.4
9	0	0.0	49	4.9	57	5.7
10	0	0.0	45	4.5	52	5.2
11	0	0.0	29	2.9	36	3.6
12	0	0.0	21	2.1	31	3.1
13	0	0.0	17	1.7	26	2.6
14	0	0.0	9	0.9	26	2.6
15	0	0.0	10	1.0	24	2.4
16	0	0.0	3	0.3	12	1.2
17	0	0.0	7	0.7	12	1.2
18	0	0.0	1	0.1	10	1.0
19	0	0.0	2	0.2	7	0.7
20	0	0.0	3	0.3	2	0.2
21	0	0.0	0	0.0	3	0.3
22	0	0.0	0	0.0	4	0.4
23	0	0.0	0	0.0	4	0.4
24	0	0.0	0	0.0	1	0.1
25	0	0.0	0	0.0	1	0.1
26	0	0.0	0	0.0	1	0.1

Table (123): Imbalance when sample size is 1000 for single layer 3

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	451	45.1	109	10.9	82	8.2
1	510	51.0	219	21.9	202	20.2
2	37	3.7	186	18.6	172	17.2
3	2	0.2	173	17.3	143	14.3
4	0	0.0	115	11.5	120	12.0
5	0	0.0	85	8.5	99	9.9
6	0	0.0	54	5.4	71	7.1
7	0	0.0	24	2.4	37	3.7
8	0	0.0	18	1.8	25	2.5
9	0	0.0	11	1.1	22	2.2
10	0	0.0	6	0.6	13	1.3
11	0	0.0	0	0.0	7	0.7
12	0	0.0	0	0.0	4	0.4
13	0	0.0	0	0.0	2	0.2
14	0	0.0	0	0.0	1	0.1

Table (124): Imbalance when sample size is 1000 for single layer 4

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	483	48.3	121	12.1	100	10.0
1	484	48.4	217	21.7	195	19.5
2	32	3.2	190	19.0	179	17.9
3	1	0.1	140	14.0	141	14.1
4	0	0.0	132	13.2	122	12.2
5	0	0.0	75	7.5	78	7.8
6	0	0.0	51	5.1	67	6.7
7	0	0.0	39	3.9	41	4.1
8	0	0.0	14	1.4	30	3.0
9	0	0.0	12	1.2	19	1.9
10	0	0.0	6	0.6	14	1.4
11	0	0.0	2	0.2	8	0.8
12	0	0.0	1	0.1	3	0.3
13	0	0.0	0	0.0	2	0.2
14	0	0.0	0	0.0	1	0.1

Table (125): Imbalance when sample size is 1000 for single layer 5

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	476	47.6	44	4.4	35	3.5
1	484	48.4	96	9.6	64	6.4
2	36	3.6	100	10.0	63	6.3
3	4	0.4	94	9.4	48	4.8
4	0	0.0	77	7.7	60	6.0
5	0	0.0	84	8.4	60	6.0
6	0	0.0	75	7.5	52	5.2
7	0	0.0	66	6.6	52	5.2
8	0	0.0	59	5.9	43	4.3
9	0	0.0	59	5.9	50	5.0
10	0	0.0	50	5.0	54	5.4
11	0	0.0	25	2.5	39	3.9
12	0	0.0	33	3.3	38	3.8
13	0	0.0	29	2.9	29	2.9
14	0	0.0	31	3.1	35	3.5
15	0	0.0	15	1.5	37	3.7
16	0	0.0	23	2.3	30	3.0
17	0	0.0	8	0.8	30	3.0
18	0	0.0	10	1.0	20	2.0
19	0	0.0	4	0.4	29	2.9
20	0	0.0	5	0.5	28	2.8
21	0	0.0	4	0.4	16	1.6
22	0	0.0	3	0.3	11	1.1
23	0	0.0	1	0.1	8	0.8
24	0	0.0	2	0.2	14	1.4
25	0	0.0	1	0.1	11	1.1
26	0	0.0	1	0.1	8	0.8
27	0	0.0	1	0.1	5	0.5
28	0	0.0	0	0.0	10	1.0
29	0	0.0	0	0.0	5	0.5
30	0	0.0	0	0.0	16	1.6

Table (126): Imbalance when sample size is 1000 for single layer 6

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	468	46.8	32	3.2	36	3.6
1	502	50.2	83	8.3	61	6.1
2	26	2.6	82	8.2	58	5.8
3	4	0.4	94	9.4	73	7.3
4	0	0.0	84	8.4	55	5.5
5	0	0.0	78	7.8	60	6.0
6	0	0.0	78	7.8	59	5.9
7	0	0.0	53	5.3	54	5.4
8	0	0.0	65	6.5	45	4.5
9	0	0.0	61	6.1	48	4.8
10	0	0.0	31	3.1	43	4.3
11	0	0.0	53	5.3	42	4.2
12	0	0.0	30	3.0	41	4.1
13	0	0.0	29	2.9	48	4.8
14	0	0.0	29	2.9	32	3.2
15	0	0.0	20	2.0	18	1.8
16	0	0.0	23	2.3	20	2.0
17	0	0.0	14	1.4	31	3.1
18	0	0.0	15	1.5	31	3.1
19	0	0.0	6	0.6	21	2.1
20	0	0.0	16	1.6	22	2.2
21	0	0.0	9	0.9	13	1.3
22	0	0.0	5	0.5	17	1.7
23	0	0.0	2	0.2	11	1.1
24	0	0.0	1	0.1	8	0.8
25	0	0.0	2	0.2	9	0.9
26	0	0.0	3	0.3	9	0.9
27	0	0.0	1	0.1	8	0.8
28	0	0.0	1	0.1	3	0.3
29	0	0.0	0	0.0	2	0.2
30	0	0.0	0	0.0	22	2.2

Table (127): Imbalance when sample size is 1000 for single layer 7

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	501	50.1	75	7.5	41	4.1
1	465	46.5	116	11.6	110	11.0
2	31	3.1	122	12.2	114	11.4
3	3	0.3	85	8.5	78	7.8
4	0	0.0	103	10.3	110	11.0
5	0	0.0	78	7.8	70	7.0
6	0	0.0	83	8.3	66	6.6
7	0	0.0	80	8.0	67	6.7
8	0	0.0	68	6.8	59	5.9
9	0	0.0	47	4.7	41	4.1
10	0	0.0	41	4.1	47	4.7
11	0	0.0	36	3.6	39	3.9
12	0	0.0	23	2.3	34	3.4
13	0	0.0	13	1.3	22	2.2
14	0	0.0	7	0.7	25	2.5
15	0	0.0	8	0.8	16	1.6
16	0	0.0	5	0.5	23	2.3
17	0	0.0	2	0.2	9	0.9
18	0	0.0	3	0.3	4	0.4
19	0	0.0	2	0.2	6	0.6
20	0	0.0	2	0.2	5	0.5
21	0	0.0	1	0.1	6	0.6
22	0	0.0	0	0.0	3	0.3
23	0	0.0	0	0.0	2	0.2
24	0	0.0	0	0.0	2	0.2
25	0	0.0	0	0.0	1	0.1

Table (128): Imbalance when sample size is 1000 for single layer 8

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	454	45.4	45	4.5	55	5.5
1	506	50.6	116	11.6	104	10.4
2	37	3.7	101	10.1	100	10.0
3	3	0.3	109	10.9	103	10.3
4	0	0.0	106	10.6	75	7.5
5	0	0.0	95	9.5	83	8.3

6	0	0.0	72	7.2	67	6.7
7	0	0.0	68	6.8	52	5.2
8	0	0.0	62	6.2	55	5.5
9	0	0.0	49	4.9	58	5.8
10	0	0.0	39	3.9	50	5.0
11	0	0.0	36	3.6	38	3.8
12	0	0.0	33	3.3	39	3.9
13	0	0.0	23	2.3	31	3.1
14	0	0.0	14	1.4	19	1.9
15	0	0.0	8	0.8	14	1.4
16	0	0.0	9	0.9	10	1.0
17	0	0.0	2	0.2	9	0.9
18	0	0.0	7	0.7	10	1.0
19	0	0.0	2	0.2	6	0.6
20	0	0.0	2	0.2	4	0.4
21	0	0.0	1	0.1	5	0.5
22	0	0.0	1	0.1	4	0.4
23	0	0.0	0	0.0	3	0.3
24	0	0.0	0	0.0	2	0.2
25	0	0.0	0	0.0	2	0.2
26	0	0.0	0	0.0	1	0.1
27	0	0.0	0	0.0	1	0.1

Table (129): Imbalance when sample size is 1000 for single layer 9

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	487	48.7	124	12.4	107	10.7
1	460	46.0	195	19.5	151	15.1
2	50	5.0	191	19.1	174	17.4
3	3	0.3	142	14.2	136	13.6
4	0	0.0	141	14.1	129	12.9
5	0	0.0	90	9.0	103	10.3
6	0	0.0	56	5.6	74	7.4
7	0	0.0	24	2.4	36	3.6
8	0	0.0	21	2.1	37	3.7
9	0	0.0	7	0.7	27	2.7
10	0	0.0	3	0.3	10	1.0
11	0	0.0	3	0.3	9	0.9
12	0	0.0	1	0.1	5	0.5
13	0	0.0	2	0.2	1	0.1
14	0	0.0	0	0.0	1	0.1

Table (130): Imbalance when sample size is 1000 for single layer 10

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	460	46.0	117	11.7	89	8.9
1	501	50.1	212	21.2	193	19.3
2	37	3.7	175	17.5	172	17.2
3	2	0.2	167	16.7	152	15.2
4	0	0.0	106	10.6	117	11.7
5	0	0.0	86	8.6	96	9.6
6	0	0.0	70	7.0	67	6.7
7	0	0.0	28	2.8	43	4.3
8	0	0.0	24	2.4	36	3.6
9	0	0.0	7	0.7	15	1.5
10	0	0.0	4	0.4	10	1.0
11	0	0.0	2	0.2	4	0.4
12	0	0.0	1	0.1	6	0.6
13	0	0.0	1	0.1	0	0.0

Table (131): Imbalance when sample size is 1000 for single layer 11

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	466	46.6	42	4.2	29	2.9
1	493	49.3	67	6.7	59	5.9
2	40	4.0	87	8.7	63	6.3
3	1	0.1	88	8.8	62	6.2
4	0	0.0	96	9.6	57	5.7
5	0	0.0	77	7.7	54	5.4
6	0	0.0	83	8.3	58	5.8
7	0	0.0	76	7.6	53	5.3
8	0	0.0	55	5.5	57	5.7
9	0	0.0	58	5.8	58	5.8
10	0	0.0	38	3.8	44	4.4

11	0	0.0	43	4.3	35	3.5
12	0	0.0	34	3.4	43	4.3
13	0	0.0	31	3.1	33	3.3
14	0	0.0	32	3.2	34	3.4
15	0	0.0	22	2.2	31	3.1
16	0	0.0	17	1.7	34	3.4
17	0	0.0	18	1.8	23	2.3
18	0	0.0	10	1.0	17	1.7
19	0	0.0	4	0.4	25	2.5
20	0	0.0	3	0.3	17	1.7
21	0	0.0	4	0.4	10	1.0
22	0	0.0	5	0.5	21	2.1
23	0	0.0	2	0.2	13	1.3
24	0	0.0	3	0.3	9	0.9
25	0	0.0	2	0.2	8	0.8
26	0	0.0	1	0.1	7	0.7
27	0	0.0	1	0.1	10	1.0
28	0	0.0	1	0.1	6	0.6
29	0	0.0	0	0.0	6	0.6
30	0	0.0	0	0.0	24	2.4

Table (132): Imbalance when sample size is 1000 for single layer 12

Imbalance	CPM		MIN		RM	
	Freq.	Per.	Freq.	Per.	Freq.	Per.
0	477	47.7	38	3.8	28	2.8
1	488	48.8	74	7.4	64	6.4
2	34	3.4	65	6.5	64	6.4
3	1	0.1	66	6.6	54	5.4
4	0	0.0	75	7.5	60	6.0
5	0	0.0	69	6.9	62	6.2
6	0	0.0	74	7.4	55	5.5
7	0	0.0	62	6.2	36	3.6
8	0	0.0	65	6.5	64	6.4
9	0	0.0	54	5.4	47	4.7
10	0	0.0	43	4.3	40	4.0
11	0	0.0	39	3.9	43	4.3
12	0	0.0	39	3.9	39	3.9
13	0	0.0	37	3.7	51	5.1
14	0	0.0	33	3.3	35	3.5
15	0	0.0	23	2.3	27	2.7
16	0	0.0	20	2.0	26	2.6
17	0	0.0	22	2.2	26	2.6
18	0	0.0	23	2.3	22	2.2
19	0	0.0	12	1.2	16	1.6
20	0	0.0	19	1.9	23	2.3
21	0	0.0	13	1.3	19	1.9
22	0	0.0	4	0.4	10	1.0
23	0	0.0	8	0.8	10	1.0
24	0	0.0	9	0.9	13	1.3
25	0	0.0	6	0.6	9	0.9
26	0	0.0	2	0.2	12	1.2
27	0	0.0	2	0.2	6	0.6
28	0	0.0	2	0.2	8	0.8
29	0	0.0	1	0.1	6	0.6
30	0	0.0	1	0.1	25	2.5