

Table 6

The results of computing the value of mean shift between hashes of the obfuscated and source code malware

File number in the dataset	Source code hash values	Obfuscated source code hash values	Percentage of malware samples computed using only convolutional neural networks			Percentage of malware samples computed using mean shift method in convolutional neural networks		
			Training epoch			Training epoch		
			I	II	III	I	II	III
1.	15bd55c6675c63c76c6675965c336c66cbdbb663	4c63c366c5677567b9d53d9c7c4c355b6c74773c	31	35	38	55	52	50
2.	77c7366363977756c95c49cc44376c567c3666d7	155c5769c56c5c96656d46d5d7c776695d55d6dc	42	46	47	56	57	59
3.	c757cc4c635b7675cd565957935d5576767576dc	56b7475154c95c6c475b5556c76674c4cb69c7bc	34	35	37	61	64	63
4.	67657c7c7c6c57cc57c7b9766d5c5dd5d76566cc	766b59cc665c4b7c4636d6c6c94755c753649c77	34	38	39	52	54	56
5.	c7674c653bb765cc6637c7e5dd65964749c6c799	b656d959635694c69ccbcd5c7bcc6569d6555b59	30	34	32	51	53	58
6.	bc65c7d6653776955c6c7dcc76494b35667c57dc	53363546c367d563c93c761577373dcc6555669b	42	46	47	55	57	59
7.	c6c7bbc593cb596c43d45c9756b9c444c6db6446	75553c7665b5d5666994c6d5bdc4c33c77ddc673	42	46	45	59	61	61
8.	956c555b57976cb6579d5c6d776665375b3c4c5b	474c7c5555c6c53666d95666543c4bc9b9757669	55	53	54	61	63	62
9.	46cc3cb53b555bcb97476656c77c466696ccb5cc	c6957cc6c74c9567c6756d5cc46c53c6b3cc43dc	34	38	34	60	60	58
10.	c5dd975465d55559777c6c6bc776957575667c95	cc6776cb36c4cc675656c99cc77465d7736c4336	34	36	35	55	54	56
11.	665755656b4d36cc3c656c6d5749565675955b75	47c4649d7b756c7b595d34954d766d55635435c6	34	36	35	42	45	48
12.	96c5c557ccdeb4c6536cc5666d54c6676b65ccc3	5753b757776576b57573535553ccc76c3957c6d	56	54	57	68	67	67
13.	7157c65c6cccd79c5d76cc66bc76d67c65634cb5	67c6cb95c3776bd35c74767977c5bd43956539c6	34	35	39	55	54	52
14.	dc65ccd946c965595dbc571556c4c3c49c561575	66c15664336675cd65dc76965d5c663d3675556d	42	41	40	60	64	62
15.	c555cbe35cb749555753b6cbccc4b66397413b5c	bcc3dc544cdb55cc6d6769d6765ddc6373755b36	34	36	35	55	54	52
16.	c3644c5337677c6659c57655466c55655dcd6564	7cc69756615b75b56c6b6c5bc54b4396d9c565c3	44	42	41	52	50	54
17.	6566c6b4476539cc9c5ccc595b735755cb65677	5677765696c66c5666793555cdc656677cd74359	40	42	41	50	53	52
18.	5677765696c66c5666793555cdc656677cd74359	665b597cc6b6bc5954d5cc5633c66c66774cd6b9c	37	39	38	52	50	54
19.	c6cd7666cc756555db3674c7775cc6b775646cc4	c9cc7dc9cdc665354c46c656b74c59b7756c3d56	37	34	36	45	42	47
20.	5d536ccc5c51537577534b6b66c61594c15c66d5	7c56b6356d556c7c7c47c53615cc5c6cb536c3c5	34	35	39	44	49	48