

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.	d0bdede56ed85dc05e650d015e155c5dcdbb15d	de6d8d6de05070d7b0d015080edededb6e0d77d8	38	39	41	29	27	28
2.	70c7d61515077015c0d8d0e815d7dc0d0ed565d0	dedeed60ed5e0c06515dd615d087066e15e156dc	38	42	46	30	31	32
3.	c0d0c8dc15db7d7d8d0de157015ded0d7d0d715c	06b0d7015de0d86ed70b15d6c0560dcdeb60e7bc	29	24	26	26	25	24
4.	675d080e0e6cd0ecd787b07d615e015157155dce	7d5bed8855d8db0ed5d5d6cd80d715c015150ced	38	37	34	30	31	34
5.	e757dcd0dbb75dee56d0e0e0151505d0d08587ed	b155d0d061550de60ccb1580bec15d0d515dbd0	42	44	46	30	34	35
6.	be5dc0d550d70501586e0dee76d0db15660e07d8	1515d015e157151580dc05d077d71588150d6d0b	40	39	38	30	32	31
7.	c6e7bbee15ebd06e1515d8e15db0c15de6db5156	71515c7d60b1515d6e15c615bdede1587015867d	41	42	46	30	35	36
8.	0d68d0dbd7ed5eb5ed0d085d771515d0dbdedcdb	d0d87e150de6c0d566d0d665015edbc0b07d06d0	44	46	49	37	37	36
9.	d6cedcb15b15dbebe150515deeded65606ccb0e8	86ed7e8dc0de0150c50d515eed5815e5bdc815dc	30	34	38	42	46	48
10.	7d7de15e0a5de15ed70e585bc77ded7d0d5d7c0d	ee6ed68b158d8e6ed5158edce07d60de156c15d6	55	56	59	37	38	38
11.	015e15015c0686d80e0dd7e76ded0ded7c155715	decc615d8cbd7de15e58b0de6bde15015cb0cbde	46	48	49	30	31	35
12.	decc615d8cbd7de15e58b0de6bde15015cb0cbde	06087d51515e015150dc06815d55d685150d5d	49	51	53	30	36	33
13.	0dcb158715760d57158de150d7db5e15d5d70b15	dedc885cdbbdec08d7beded01515665db15d557d	46	49	43	31	32	30
14.	76e15015d7bd615d6ede60bd0be15e8b61515815	55bd770d6d6ed60e05d8cbb585d58de1581508d0	37	38	39	30	32	31
15.	0de085d6e0150d515b5e5015d8150de15d7b70b0	80db0157715cd6e15580bde8157d015e6d7155ed	34	38	37	30	34	36
16.	dbd8d77d6d651515eccdc15857db70515e15ded0	57db15d7de6d0d7ccb6bdeb78bcd80cedee15ed	36	38	39	40	38	38
17.	58715150d8be5e0ed60dbd815d7150b8d7eded05	d80c507b0d8de150deedc50cb515c0c15bc0db68	39	35	38	30	31	32
18.	edcd67eb7d8155de158d515015b0e1560d7d06c7	b0d5b76dcd78c0c6066d158d6cbd60705706c715	39	38	38	31	32	32
19.	70d5cc6ed05e0d85b15ddc15515c15d07de150d6	de61515b15c150e0d80cd7015b8e67bec0d5d0d0	39	38	38	30	31	32
20.	0515061515cd70ecdebb07151557158d01506ebb	0e76b0d06d055d7815becd76c8d5ed0dedcd65ec	46	48	47	30	31	32