

Table 7

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.	973bc36cce3ebeede6693fd868de96636e6ceb9e	e8eee6786d696ebe600836eedde38dd633eedbcc	30	34	35	30	29	27
2.	7ed60edec6e603fe666e87d060d390d9ed7887ee	be9e8d7cee6bc3f3660d6067eb3fee8e8e07de68	37	39	38	30	32	32
3.	c6dbcb609e8ceee7b9ceceec886dc3c97b7eded	6dbee7ded30ed3fedc8d6e967ccc7cb9b76dbd7e	39	35	34	29	24	26
4.	d0c7ceb9d7e369e066399dee3d86ebd86e908d06	96e0697eee8d3f33f3fd9e9eb6dede7e6d8ebe7d9	42	44	47	30	36	31
5.	e308eebb33e88edd39e779e9de3bee068e76eece	ebcbe3d996c3e6d3db6ebdeded3fe67edeb8e69e	42	46	42	30	38	34
6.	63ebce6de66d8d0eb6e3d7ece9968e9eece3ccb7	e6990e33f3f3fed6699dcdd0d6bbbcc3373ceec3	49	48	46	43	48	45
7.	9e63b978e6b70ee0edde0de63d8ce8c36e3de96	bcc0ee699cd7e783e9eeee03fd3f6e66e6d83eb	51	56	57	40	41	42
8.	bd63decdee3b7be7078edc86766e6083f83930e	e0d3ed3fdbde93fe79e0666bdc6669ebb03f9e30	30	34	38	30	2	28
9.	ebce3e969c3ce66dd79bce8e6678d88d366dde67	d37ee33c398eee7606d68d9e66c736d73fd7edde	29	28	30	34	39	38
10.	0e8c0d3edcb9d608cce90b6ceb3f837ee6d9e0dd	6e7eb73678ede673d6ce3ecd7969e0676e83f78c	44	46	48	30	34	38
11.	9e99d0ede0cee3fc6b063fe6ee63cdd9cd86cdee	ee6c83ebede7e83eeeedcd3d6e9dc9c6c86e96d7	46	48	49	30	31	32
12.	6ee306e6ebede8de8ee8ed63e9ee0e76906b3e	e7d3fe9d3b3eec7b090dee96ed36ede66e0ee68e	48	46	46	30	35	34
13.	9e86de6388ddbe860eec0d3fedec6e36b6688de	030eb367733e636b630778ee60ecc7e8e9678ed	48	52	56	32	34	3
14.	deeeed6ee3e37d6669ce36663f6c00ee0d72b66e	38de9303fe0b76beec6bec0bc6ebee9ed9d6ee8e	51	51	53	37	38	41
15.	edeed8d93fd96ee9edb67e6eececede9c66e636	6e8ee3f0eee636cdeedc369eede8e6edee360eed	37	39	38	30	29	28
16.	d066dbde08b7e96ee30ebe8bccceb6ee93f6eb0c	bcded863fdbb60cd6d6769d6360ddc6e7e760be6	39	42	44	32	34	38
17.	7e078e08ed88d39d0d7edc3fbd7ede7c6eeecb6	63ce8b90de37ebde6d7e7e3937c0bdee90e0e9d6	32	38	37	29	27	28
18.	e06e8eb3f76ee9cc980d8dd69eb3ee70e8be6673	0e337e0696c6e86e6e39e606cdce03f738d3ee69	34	38	39	31	32	33
19.	0e337e0696c6e86e6e39e606cdce03f738d3ee69	3f6b69788eb8090edecc6eee86686e37e8db9d	42	46	48	30	35	38
20.	8e8d33fe8c766600dbee3ed7370dceb73063f8de	d9d87dc98dc3f6eeec3f8e0eb3ede9b77eeded66	42	44	46	30	32	34