

Table 2

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

File number in the eataset	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.	7007b7d793697d097936d997c807c79969bc87c7	99890bc36d798c36d7077c36b60670d8936697dc	37	34	38	55	57	58
2.	897969ccc366987d97997c799c8367b99799cc8d	79d76cbc97b7cc88697d99c7c8b87c0706c79989	32	34	35	61	64	65
3.	697cd07807cd7cb98c97979369c8bdcd99c99797	936b7689dcc07db9708770936706d96870936799	34	35	38	62	64	68
4.	787c3699c79b7097c9ddc97999986979d9cc99dc	0cb79999796c9d79d99979cc79b9b93697679878	34	35	31	59	57	58
5.	6bc0798d8b36798996363679b60d36968979b788	c7679369cd6d3699d8bc6979bc7079799c86c6c9	31	34	35	61	62	64
6.	d36790cdb79367d7836c00997cc79997b99997b9	98d9979bcd7997c7c799c9089d98b098b79b0667	34	35	36	58	57	59
7.	7080bdb99707c703697d99d7c996c797c8978607	b90c9990787b7d7c6079cc79c36d003600d97699	31	30	32	61	64	65
8.	79c98c8c9369bc7980876bc0369700c96bccdc08	c7976bdc798b93670c7bc9368d836dc7936978cc	35	34	35	58	57	56
9.	9d8936cd96036c976936bc9bb636cc97d7c997c8	b9c9799cd9d79679909767967c836d7b9c8c9cd9	42	41	40	61	64	65
10.	c997908d99bdbbd9367dc09997998cd9c69c3699	b70796d69bc97636799736087d096cc7bc7db907	38	34	36	62	64	65
11.	89b367cb3608dd6c6707b0c369c899369936c097	7d07936999367c679d67036d969997b907936369	37	34	39	58	58	54
12.	799c36d98c6c0c07bd9797d6b369797936d869cc	9b89036c368b8360789b979d9887980369070369	32	35	34	59	57	58
13.	c7936d78cc0999c96c97c0367c690c9bc93697b6	08997636990706c9869bc97b3669769c7d9bcc67	34	35	36	57	54	56
14.	9997679d7db7d70d890c7db936999cc36d799369	70797c907db7097c7b978936976b86367dc7cd99	34	35	36	57	59	58
15.	879367c86c0936366769368797896b79c9609790	79988c7b93697c96897c079c9367d79797900997	34	35	36	59	57	58
16.	9cc797636c99369078c78b79db06767dc89c7936	7d7099c799ddc369099b97c90dd890dc9d799c87	37	38	58	57	59	61
17.	36c99836c9976b36797369bcc369cc97cc8c0d67	7979b7989369360bc79d7c0979907c36936b3679	54	58	54	34	38	37
18.	d797ccc9799878936c7c608898799679979699d7	cc367d7bddd7c36099369b76998cdc9979c9c79b	38	37	34	55	54	56
19.	99b07983697836367999c60798369936b99cc79d	76c9bbd009b99d367979c79c367c6d9898799c86	31	32	34	54	59	57
20.	6c767d67c998360cc9c6c69607dcd7cb63636cc7	799d369367bc36997999c36cc90c036780c7db9	31	32	30	59	55	58