

Table 2

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.	7007b7f793a97f09793af997c807c79969bc87c7	99890bc3af798c3af7077c3ab60670f893a697fc	30	35	32	42	44	46
2.	897969ccc3a6987f97997c799c83a7b99799cc8f	79f76cbc97b7cc88697f99c7c8b87c0706c79989	34	32	30	42	44	46
3.	697cf07807cf7cb98c979793a9c8bfcf99c99797	93ab7689fcc07fb970877093a706f9687093a799	34	35	39	46	48	47
4.	787c3a99c79b7097c9ffc97999986979f9cc99fc	0cb79999796c9f79f99979cc79b9b93a97679878	30	31	33	49	49	50
5.	6bc0798f8b3a7989963a3a79b60f3a968979b788	c76793a9cf6f3a99f8bc6979bc7079799c86c6c9	34	30	31	46	48	47
6.	f3a790cfb793a7f783ac00997cc79997b99997b9	98f9979bcf7997c7c799c9089f98b098b79b0667	30	32	33	48	49	52
7.	7080bfb99707c703a97f99f7c996c797c8978607	b90c9990787b7f7c6079cc79c3af003a00f97699	30	31	32	46	42	45
8.	79c98c8c93a9bc7980876bc03a9700c96bccfc08	c7976bfc798b93a70c7bc93a8f83afc793a978cc	37	35	35	49	48	48
9.	9f893acf9603ac97693abc9bb63acc97f7c997c8	b9c9799cf9f79679909767967c83af7b9c8c9cf9	30	30	31	46	45	48
10.	c997908f99bfbfbf93a7fc09997998cfbc69c3a99	b70796f69bc9763a79973a087f096cc7bc7fb907	30	31	29	46	48	48
11.	89b3a7cb3a08ff6c6707b0c3a9c8993a993ac097	7f0793a9993a7c679f6703af969997b90793a3a9	30	29	29	38	41	39
12.	799c3af98c6c0c07bf9797f6b3a979793af869cc	9b8903ac3a8b83a0789b979f98879803a90703a9	36	30	32	44	46	48
13.	c793af78cc0999c96c97c03a7c690c9bc93a97b6	0899763a990706c9869bc97b3a69769c7f9bcc67	41	46	45	48	52	52
14.	9997679f7fb7f70f890c7fb93a999cc3af7993a9	70797c907fb7097c7b97893a976b863a7fc7cf99	34	32	33	39	41	43
15.	8793a7c86c093a3a67693a8797896b79c9609790	79988c7b93a97c96897c079c93a7f79797900997	30	30	31	49	48	55
16.	9cc79763ac993a9078c78b79fb06767fc89c793a	7f7099c799ffc3a9099b97c90ff890fc9f799c87	31	32	33	44	48	47
17.	3ac9983ac9976b3a7973a9bcc3a9cc97cc8c0f67	7979b79893a93a0bc79f7c0979907c3a93ab3a79	30	32	33	44	48	47
18.	f797ccc979987893ac7c608898799679979699f7	cc3a7f7bfff7c3a0993a9b76998cfc9979c9c79b	30	31	32	49	48	49
19.	99b07983a9783a3a7999c607983a993ab99cc79f	76c9bbf009b99f3a7979c79c3a7c6f9898799c86	40	41	44	49	48	50
20.	6c767f67c9983a0cc9c6c69607fcf7cb63a3acc7	799f3a93a7bc3a9979999c3acc90c03a780c7fb9	41	44	43	52	56	58