

Table 1

The results of computing the value of CTPH and the editorial distance between hashes of the obfuscated and compile source code of surtr software

File number in the dataset	surtr file hash values (128 byte)	surtr file hash values (512 byte)	Editorial distance	Percentage of malware samples calculated using scdeep	Percentage of malware samples computed using convolutional neural networks			Percentage of malware samples computed using capsular neural network		
					Training epoch			Training epoch		
					I	II	III	I	II	III
1.	27fbcf6cc2f4b24d2662 ffd868d2266f626c2b22	482426786d6262b46008 f642dd2f8dd6ff42dbcc	32	39	59	57	58	35	36	37
2.	74d602d4c6460ff26662 87d060df20d24d788724	b4228d7c426bcfff660d 60672bff44828407d468	30	32	55	56	54	30	31	32
3.	c6dbcb60248c4447b2c 2c44c886dcfc27b74d2d	6db247d4df02dff2dc8d 64267ccc7cb2b76dbd74	31	35	61	60	60	37	38	34
4.	d0c7c4b2d72f624066f2 2d42fd862bd862208d06	26206274248df22065fd 424b6d2d4746d84b27d2	30	38	55	56	54	59	57	58
5.	4f0824bfff2882ddf227 7222d4fb4206847624c2	4bcb2fd226cf26dfdb64 bd2d4dff2674d4b82622	30	34	53	56	56	30	31	32
6.	6f4bc26d266d8d04b64f d72c422682242c2fccb7	2622022026fff2d6622d cdd0d6bbbccff7fc24cf	35	35	59	57	58	31	30	31
7.	226fb27826b702402dd4 40d46fd8c48cf64fd226	bcc042622cd7278f22424 420ffdf626626d8f4b	32	35	58	57	58	30	31	32
8.	bd6fd2c2d44fb7b27078 2dc867662608ff8f2f04	20df2dffdbd22ff47220 666bdc66624bb0ff22f0	28	36	54	58	57	32	31	32
9.	2bc4f2262cfc466dd72b c2846678d88df66dd467	df744ffcf284427606d 68d2466c7f6d7ffd74dd2	32	39	59	57	58	38	39	34
10.	028c0df2dcb2d608cc42 0b6c2bff8f7426d240dd	6274b7f6784d267fd6c4 f4cd72622067628ff78c	34	37	57	58	58	30	31	32
11.	2782d02d40c44ffc6b06 ff46426fcdd2cd86cd42	446c8f4b2d2728f4242d cdfd622dc2c6c86426d7	33	42	55	58	59	31	32	30
12.	624f06262b2d428d4824 282d6f22420276206bf4	27dff22dfbf42c7b020d 42262df62d4664024682	30	43	59	61	60	55	54	56
13.	2286d46f88ddb286042c d0ff2d42c62f6b6688d4	0f04bf677ff26f6b6f07 7844604ccc728426782d	33	35	54	58	57	37	35	39
14.	d4452d644f2f7d6662c4 f666ff6c00240d72b662	f8d22f0ff20b76b42c6b 2c0bc62b2422d2d62484	32	37	58	57	57	34	35	31
15.	5d24d8d2ffd264424db d672642c2c4d22c6626f6	62824ff04426f6cd24dc f6224d48264d42f6042d	28	35	55	56	54	59	57	58
16.	d066dbd408b722644f04 b28bccc2b6242ff64b0c	bcd4d86ffddb60cd6d67 62d6f60ddc6474760b46	35	34	58	57	54	31	32	30
17.	720782082d88df2d0d72 dcffbd72d27c64242cb6	6fc28b20d4f72bd46d72 72f2f7c0bd24202042d6	28	39	58	57	59	31	32	30
18.	206282bff76442cc280d 8dd624bf447048b2667f	02ff720626c6286262f24 606cdc20ff7f8df2462	33	35	55	54	56	31	32	30
19.	02ff720626c6286262f24 606cdc20ff7f8df2462	ff6b627882b2b80202d4 cc6244866862f728db2d	31	39	58	59	57	34	35	36
20.	828dff728c766600db42 f2d7f70dc2b7f06ff8d2	d2d87dc28dcff6442cff 8202bf2d42b7742d4d66	31	38	61	62	61	35	34	38