

Table 4

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

File number in the dataset	surtr file hash values (20 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 capsule neural network		
					Training epoch			Training epoch		
					I	II	III	I	II	III
1.	5811d818714119af969c 91d716879d7416c14411	1171e1111186af164117 411dc97e6971c1741ce7	28	30	31	34	36	55	57	54
2.	411af1747c9486dc4111 de871c17814111e91111	181cd1e1641e111ededd 1e6781d7e1dc1117c1d1	29	34	35	33	32	48	47	44
3.	d86c9ce18641411dc417 61cdd6d941dd41891dd6	af841d76d1c1c11e1841 1191e1d9cd7cd948d7ed	31	35	34	32	36	59	57	58
4.	1daf1de181dc114dd181 1d7148e7d7ec71d944de	78419d71e7d1ece4181d 7d1c197d7d6741d9cd16	26	30	30	31	34	42	47	48
5.	8e11d1767e4619d1c711 41d411e761e8117491d8	edd741741d879d6d71d1 19141c1761d911d741dc	24	31	31	35	36	55	57	59
6.	dc991cd411cd1d1111cd c178111e1117ece11911	171e9691d8181cc7c1d7 cd4c19d1d411c11d6e81	28	35	34	36	35	54	58	57
7.	1417d11d7181caf6198d c1494e9c117d1114ec6d	171d91d141c61ed48d1d d17c119191411111dd1e	26	33	36	34	35	59	57	58
8.	911e161e6d67119dd4d1 dc1d1de19c9c18411611	171d91d141c61ed48d1d d17c119191411111dd1e	27	38	46	48	47	61	64	68
9.	41d1c6d678d71d1667e4 188d4e41ce1e98c11441	1dcd1918de44d1ef1171 1e9c4d17cd641c119191	29	34	34	36	35	55	57	59
10.	d179114e148168967844 14714d1d61111ed4e189	17ed641e4ec111d47199 4c1d786417d1d11deee1	29	32	31	34	35	52	53	58
11.	9ded6d1d1d7c8dd1e118 e1747491611641d8111d	17ed641e4ec111d47199 4c1d786417d1d11d0e41	28	36	32	35	39	52	50	56
12.	e1c1c19dccc791ddd9 c1dd9ed67e1184e117417	d416811c7e14d161c11d 814eaf1cd4e1e4819811	31	34	37	38	34	52	51	56
13.	147941c81c19ced14167 cd411181841941e89119	497e16d6dd7d711d1188 4994c7111e881187ed18	32	38	39	37	34	55	53	58
14.	e023518c1e781e81ed1 61161918d89411c411e19	c6ce119811e66c4d8181 17d4e1c474dd18d1e191	29	29	30	34	32	52	54	58
15.	c941176d18171474d117 c78d4d1141e114178741	7ed1cc1141e8c7671ec7 11e4171c19711e611c91	30	34	34	36	35	54	58	57
16.	14166941e18ec7ed11cd 119187e8169d1c7d6c19	dd188eafcdc119111987 41e1d118d71617d7111e	31	36	30	31	34	56	57	59
17.	6714e769e1611994daf6 914141af1c81d9c71911	1e976e149e1d9daf1761 d1711e11871761d41dd1	27	38	42	47	45	64	65	64
18.	c7cdecda18741c11171 1c1c8ce14dd941c1e184	817c6411dd1d171d8dd7 1e8817c6d1411e7d11d1	31	37	52	54	56	61	67	67
19.	47171c71141141cd1af1 64ced7dd16d4187d787d	181c1afd794978141d61 1cc1419171d9914419d7	31	34	52	56	57	58	59	57
20.	711dc47d41c197daf19 189d1e1111af69d1641d4	8181d9edd794d6748816 864d46c146d9d911d8e7	31	32	52	56	56	58	61	67