

Table 3

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 (256 byte)	Editorial distance	Percentage of malware samples calculated using scep	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.	e4d4bdb9f74ede47f97d 9dd7c9d6ce67f09ed647	b94cfdd4fdb7dec64e9 cddfd7d44df44df769d	32	37	34	35	36	58	57	59
2.	dc7d9e6e6fddfd7d44bd 6dfdbd44f0fdddf4fdd4	be674fd47fe4debcd7e d4e7e64fdf4d9cebdd44	30	35	31	30	32	54	56	57
3.	4d4d9d4cf0f0d7dcd6ef f9b67e6f09f44dfddfee	f46f0f0fddbf0f6bf4d fe4d44d744674ddd7def	31	34	30	34	32	45	48	47
4.	df4dfdddf0f07d4d6d ce6d7ecde499df67d4fb	4d4dc4ddf99e4dc7f64d f7e9dd7bfbee6d6fc64d	30	38	40	42	41	59	61	60
5.	6ed9bd74fd64be6f9e6d de76ddde6e6dfd744794	f69fe4dd64d474e4def fd7eebd9df96b6df74dfd	28	38	31	30	32	64	65	62
6.	edde6f7fde6cdee44dcd bdf4edddfd9d4df9bfdb	cfedfcd9d7bccf97dd7f fbfd47e774f67dd6e6e4	32	35	29	31	32	59	57	58
7.	d4fee69dfde64bdf4bd 9def464bdbcbcf74cfb	d6746d66f4efdfdf04d 479fd9beede6dbfd77f	29	34	34	35	35	61	60	62
8.	d44d9fd4c9fdb74f0ddd cfcd6fdde64d6d4deef	44ccddd6fd7f9f49cdd bd9dfdf4f0fcd9dbfd67	29	35	34	36	38	59	57	58
9.	94dd4f6dd46f9dd6d6d7 4fc7ddb6dcff0df0bccb	ef0dc7d9dbef7edc7dd 497ef066b6bfd4e6d4ed	32	31	30	32	34	58	57	58
10.	fcf4cfcefd46ff049fdb d7d7d4e64dce6c4df6cd	fdd4d4ddfc7ce4d4f967 4b4dd7f4f0fd4cddf9f	29	30	29	30	34	61	62	61
11.	4fd64d6dc6744d49c9f0 fdc9e9cdfd96ff0d9e69	dc7f9ff077d4efbde6b dfce64f4ddbdce66ed7e	35	30	34	35	32	55	54	57
12.	efebfdd9dfdfdb9ddfcf 9d79ff0d6de6b4dfc44e	dfdfd67cdfe4f74dc7f0 6dc4d47dc6ed6f0d74db	30	31	30	32	34	49	55	52
13.	76fcf4df0fd0dcd7ccf e696fd6f4c4f0dedbedf	4fed7ee6b4eedbfd7cf 9bf4cff0bc9dc494e6	32	35	34	35	34	48	49	47
14.	1fd54dfdf4e9ced7ee9d fdfd76ff0fdd49cdf6	e6f0dfeee7e66cdedbcf fd4b4fb4dddefdd9e79c	31	34	30	32	34	49	51	53
15.	79df9f9f0debf4fdf4cf f69f7e64dd9fde64df6	4edfee4c94f444df96e4 ed9e7e667ddcd4e6ccbd	29	36	31	34	35	50	54	58
16.	f6ed4ec66497d6ceddf7 4fcd9f94e6ff0d4d7fdb	f0de6dcfbfdce694edfb 6d4f7efedfdd4ed7dd	28	34	30	34	35	52	54	55
17.	f0bebdbdfef0dd79f9fd df4bfed7fddcdcf0cdc	7bd4fbd9f6bfbd476fe 6dd6f0f0e7bee4d7b7fe	32	31	31	34	35	54	57	58
18.	d74cdcdfdddbd97d447e d9fd9f97fbfd77f0becd	f06dbdc47dfcdfdfdcf d9ced6ef79e7f44ddc96	32	35	30	35	36	57	59	58
19.	d9bfddc7f7d7fd77de4 f04fcde6df6fdee6feede	ff0dbdbd6f0f49bf7f4 46ddcd7df7ef97e94dfdd	31	32	30	34	36	61	62	67
20.	6bf7f4be6f0d4f0e66cf d47fdec9f4feb4cdfbdd	dd7cdcdcbcd0f06c7d 6b6ed6f6d6cf7d9d7e4c	33	30	29	27	28	42	45	47