

Table 5

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

File number in the dataset	mimikatz file hash values (40 byte)	mimikatz 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.	da39a3ee5e6b4b0d3251bfef95601890afd80709	c6f193830533cf01241d97638058cbcdc0c4b10b	35	39	42	45	43	30	28	32
2.	72774d3e615494029456ba0e9119fa522d04ad72	d0ce39a0c972eafee36c9d14b769975557fd64d8	37	36	38	41	39	27	26	23
3.	11b79ca274c04fcdad9078604e42b62e8387b471	146658f96f51b3ff75a41276b840f17b064d5cac	36	28	31	34	38	26	23	24
4.	146658f96f51b3ff75a43276b840f17b064d5cac	1ae25ef6d6174b0a3705d1e342f0282771576684	33	19	21	26	28	11	13	15
5.	c96e1d9098c361e13bb27ba3352630f7dda19145	68ff5dbab2bda1e13bb27ba3352630f7dda1914	13	54	58	61	59	63	67	72
6.	ecb86bd02a7cdd469d815fb7c26686fe54e7c5bc	dda47bbab2bda69c40efa02dfb6f89f652cb0513	32	29	32	35	39	25	29	23
7.	fbd2008e4ab0c188433e2bc03ac95e673b72eae9	e57e7c1e76ebe45fb595e718879ca786e6ddf435	38	38	44	43	42	26	29	29
8.	b86a583745c523e13ded016a97637b6a5496b412	de31dcfb6eb514594224d78e21713ead0fb4caee	37	23	26	28	25	11	15	19
9.	df6df3a7cf21c87aec7ee1f6ad36f2290fd125d5	e4849dd4c0074be0c973a6f6041786adcbd8e3a	36	54	58	61	63	32	37	34
10.	601e2457806cc6462fff1365d66596daae37268d	adc68ff5b1160d7740ab765d991f482b5abbccaa	37	49	51	53	59	39	41	44
11.	ae4a67f2a31a77160c4991dc3c468006e7efca20	7320f376867c692bccaa527978d9254ed35c9c12f	37	26	29	31	35	20	22	25
12.	4ea5927428ce198f44bd00a3614248d5dbc7b0f0	5ee5927428ce198f44bd11a3611238d5d8563247	14	56	58	60	58	72	75	81
13.	81a5e01cd43e5cabff0711af6db708a7a778cd8b	53840d20241d927703c5d29fdda3aa88909aefd0	36	29	32	35	37	18	22	19
14.	d909232645b16c3c871d21eb0c28aab21b22e9a7	d5e6746a6eeee6b263149749ce39a1c12587159b	35	34	37	37	41	28	26	27
15.	d5e6746a6eeee6b263149749ce39a1c12587159b	2365846a6ee786b263149749ce461dd125870114	16	29	32	34	37	22	25	24
16.	ed12376a614636b260239749cdeac1c12785159b	7cbb2053582747603842991092866ce5a4030cd0	36	36	39	42	41	28	26	29
17.	9e6eae16cef45f1117fbb62792fec505ef768f8d	41a9820b7f9435774c51e1658f6713f99ac4c09f	39	39	8	7	8	5	6	4
18.	1fb75859f994cd37ec8e9b6a858a259b8a222b70	6252d992a2ed9ba00a776339bcfa9874f8fe7d6	36	32	35	37	41	29	31	32
19.	c7b7fd20fe341c008a2a84494983b32aad31ac4f	4a51da3f3bf217cc3d74371984623e9f34a7cf88	35	45	47	50	52	34	37	36
20.	0f2a36dbf31d252ac05633e43db629471438a96a	19ad335fc7578665b28af9a7e3da4d8f5b18f77f	37	38	44	47	46	26	29	31