

Table 1

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 (20 byte)	mimikatz file hash values (40 byte)	Editorial distance	Percentage of malware samples calculated using <b>scdeep</b>	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.	b9be58b87140f922969c905236829d2436c34400	ef73afe0b3862206e112400dc97a6920c1240ca2	36	12	11	16	18	7	7	9
2.	e1077e747c9486dce1bfda820c078fe300a901fb	081cdfaf631a003a5a5dfa678b52af5c0eb2cbd3	37	15	18	15	22	11	15	13
3.	d86c9ca3861e333dc3376fc5565943551389edd6	72840526d3cecbba084eef91aed9c52cd94855d5	36	16	16	18	23	15	16	11
4.	bd72fda18edc004d5181b57e48a757ac2ed94444	783e9520a25faca4f8152dfc092d7d67e359c5f6	36	28	34	38	35	16	15	18
5.	8ab1d3267a46f953c73b4154b1a261a8e02493d8	ad523321e582956d7b51e9f4bc3763d9305231dc	31	13	17	19	28	3	5	6
6.	dc990c540fc50deb0cd178101ab107acaef9fe	f2ba969ed8f8ecc7ce57c54c39de5333cf0d6a8e	36	21	23	25	34	22	21	22
7.	b137df3d2083c226f985c0494a9cef753034ac6d	f7fd9ed34bc6ead485bd5e7c1b9f9f13f30fddba	36	28	31	29	34	20	15	21
8.	9efa06fa6567be9554db5c351da39c9c084306e0	f7fd9ed34bc6ead485bd5e7c1b9f9f13f30fddba	33	67	66	68	72	32	35	36
9.	4f5ec65628d2bde662a408854a41caea98c0f44f	f5cd09b85a44df103b21ea9c4d02c564fcb19191	35	15	18	21	29	7	8	7
10.	5329b04a348368967844f421453563001ad4ab89	37a56e3a4acbef5420994c0d7864125e53f5aaa3	37	45	52	56	55	31	30	33
11.	95a56dfdfd7c8550afb8ab2474916bb63e58bb15	37a56e3a4acbef5420994c0d7864125e53f5aaa3	33	19	26	28	31	10	13	12
12.	aececb9dccc29fd5dd9c0559ad62afb84af374b2	51168e0c2ab45361cf05834a721cd4aba48098be	36	17	18	21	23	8	8	11
13.	14791ec8ec19ca534367c54f008b8439eea89f09	497a16d6dd757f05fb884994c71bea880e87ad18	36	12	15	15	18	6	8	7
14.	dbfb0b8c0a28ea8bade6306f9e8589ee1c310a39	c6ca0e98e0a66c45838fb254aec474553850ab91	34	19	22	25	25	11	11	16
15.	c91e176518b7e42450e2c28d45bf31a1b3178240	7ad0cc0f4ba8c767fac7f0a4f7ec192b3a60ec9e	37	35	37	38	37	30	30	32
16.	04b66940a08ac7adb0cd19382a8169d0c256c09	5db88a72cdcf90ff9871eae5bf8d2b617d73b0a	34	38	42	44	48	24	26	28
17.	67b4a269a360b994d7769e4b40220c8b59c219b0	fa926a049a1d9d72126bd07f1a1b87326b5e355b	35	15	18	19	24	8	8	11
18.	c2cdacd22e871ecef12b0cbc8caf4559eeca084	817c64fed50532e58dd21a8812c65fe10a250bd0	36	46	52	56	55	32	35	38
19.	4202fc70b1301ec50b1f64ca525de6d31825787d	38bc177d79492834356f1cce4f9120599f41e952	37	78	77	79	81	41	43	45
20.	20b5c47533cb97d72f90895ea1ffe27695063e54	818b59add29456248836864d46c146d9d930d8a2	37	82	88	89	88	51	55	57