

Table 2

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

File number in the dataset	grum file hash values (20 byte)	grum file hash values (80 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.	4c0066990e989c46de6e749946bce70086bb46ce	90e779909868800bbce604cd6e05a7b6c09b9b90	32	37	36	38	37	30	32	33
2.	b5a48990ede89d9ec05a0edc987d7ce644e08d6e	074e9e4e9b5a6e6b6d4ded888979787e4cb0e9ce	31	34	39	39	38	30	29	28
3.	67e0e4e8490e9cb98c9099799908be0e7e000e7e	e084844be0be0e7e99d7067c049bd9ed865abe60	32	35	36	39	39	30	29	30
4.	09804b05ae998ced5a4ee05ab646d4e8709600e0	6886ec00ed06ce44ed0986be09dbd969884b7d97	34	39	44	49	48	31	32	33
5.	96e9d4e0608c99940d9bdd45a4900e69d6ed7de6	5a8e90ebc5a5a4e06be05a40c475a7b07769cde6	33	38	42	46	46	39	35	34
6.	0cb5a4c070898009045a0d9bced909e6d0e6be7d	805a600cc5a6785ae0070c5a9c80deb70070cc8e	33	41	43	48	47	38	38	36
7.	e484beb9794e0e49099e90e9c906c0e9089e8649	b94c7004080b95ac64e9c0d70d9e44d0445a9690	35	42	44	48	47	34	36	35
8.	0c9e90e070bb709e44b8607db84e0878d07e0d04	b5a9e70e90e45abcbd9e85a907e75ae09cebd5ae	32	38	46	45	48	38	34	32
9.	5ae09dec8e08e90ce6e709b695a8895aed005a5a	7e60e085a0b78076b04d5ae845a9e4695ad89de7	32	49	55	59	54	37	34	34
10.	ede7009e0e6c05a448c0bd04edd870905a79b0db	c7edec09d9bcc7990097eb70e9e995a6900677e4	32	37	46	48	46	30	31	32
11.	ec0ec0c5ade678e49e8bd9e904e040c00c4d76c0	e005a4de7c9ce4d409694b400904e0edec005a90	29	36	48	49	48	31	32	30
12.	805a65a45ab074775ae407699d045a000d97e75a	40bde977d0605a5ae0e7d0cc97beb9dd9e6998e8	35	34	39	37	44	30	29	28
13.	5a9b5a0ed9b9e440e94d4885a89dd690696ce709	5ae960b070b90c88695a070dc8b8e04e460e0789	30	37	42	46	48	38	36	34
14.	e7eb0089d0d08b90d0c098995a00607ebe07c45a	09eb0687ecc4deb0e48d94e9ed46e968e45aed97	32	32	31	31	30	28	29	27
15.	0e00069c87e40940c9e868c4049dc6e068ed940b	ce6079e0ce65a5a0e8bc60e7b004095a7c86c6c9	33	38	44	42	45	40	40	39
16.	94005a600e609d8606095ac900b60c05ad88bccb	e80ec9d90be7e9e0c98de99e8066b6b704e605a0	35	30	37	38	42	29	28	30
17.	98e00e97000b049e05aec0e079086ed9e9cc5aec	967c0ed5ae0eb0cd0cc0e7960d604ce0e85abe0e	28	38	44	43	42	31	34	32
18.	e0864860c694e049c95a7dc9e9cd009675ad9079	0c9e9e00995a5ab0de7b80c05a7e08b0c5a65a9e	34	33	39	41	42	30	33	32
19.	d5a0eded0e05a8904d60c00d9ec05a99d0698e7b	e0e0c4e0799e4ec976e079e90d9b7be0e067c6e0	33	31	29	32	34	28	29	28
20.	6bc4e08e8bde0987e6e05ad0b64e0e068e99b988	0449b0e0e995ae47e7005a00c84e0e7760bc89ce	28	29	37	37	39	30	32	33