

Table 8

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 (128 byte)	grum file hash values (1024 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.	cbfee208bfc087268b208ef9fe2e06e89568e0b8	06ec78e06bf870f90ce602f8ee05620e07f0e25f	33	39	37	38	39	33	31	32
2.	bec06e087bbe7bfe2eee6e00b20790ffe7fc9802	08c0020858000c000b5ebfe607f08ff8e5efe685	30	34	41	42	41	31	32	33
3.	00ecf020ee0020e02600be00e6ff5fcf5fcc066e	5e0feee29ee68f927f0070960e0ee079069e22c0	32	36	39	39	41	31	32	30
4.	fcee606e90b8ff0fc6fcf09ee060e00e6ee2709e	cf9fbe0bbe8e90f08c5e7e8920e580fc2e5e5072	31	33	37	38	39	29	28	29
5.	f0bfee2fe05ecc6070ecc5eb52e880eb08220e0	be26655cb8b5bb07eeb0e9e0e5586e000bbf6e6e	32	38	33	35	32	30	31	32
6.	6e07cefef00e78e68e7f70cbe7ccf9e28fc50095	f980c0f707f0806f6ef55726e90e07eeb527f0e0	33	37	41	42	43	32	32	31
7.	fe68299090ef90eeee5e0f50562e77bf0e5e7bce	8f8e0ee77b2eb0e0f007e6e00c8b90bef8f86c6f	34	39	46	45	47	31	34	35
8.	b26e0be8f0f68700e226600022c680558b57e086	66e2e890f26f29520ef2fb2eceedf020b896bfcfe	31	40	41	42	43	31	34	36
9.	e7cc8988c62efceee00550c9968e5fbec285c05c	99e8ffe2f60bce8070fb9fbe0ceb6007e99ecf0e	35	39	44	49	47	32	34	35
10.	0ffe75e5cb007562fc9bf72b527b9e0bf200b070	70200ec9e0fe7e9e98007e77cce5ec0f00ee2fe0	34	37	36	38	41	30	31	32
11.	679beee0857f97700f88f605f027cb570b966fb9	686efe8f0fee0f2fce2ebe055b82fe508e808eef	34	38	44	46	45	34	35	36
12.	b70000287b66fc6be0c52fef007f0b00fecf0e79	6ce20590056ec900cef07098e0e8ee0ffbef6e20	32	37	44	46	45	31	33	32
13.	fe0e06bb0e0e6808f8f0800e0e798670f080ece90	50b0be0ffe8908770c0fe8e2067f8e0e02b7e90e	27	34	38	37	38	29	28	29
14.	eeff75e5eef0cc07eee0f0ebc6e0e5eb700f7e6	0e0eb002008ece0eb6fbe2fe0e29906e6f8eb0f	33	38	44	49	48	31	34	35
15.	c0b20e60bf0efe2508ee02e9ce6800e02ebc9ee5	feef7809e50b2ce0800e7e5fefe6060c80f00eff	32	38	46	48	45	34	35	31
16.	cbeef27e28f2f0f598fb6bf2520feff9e0f7eb82	5758f55ef000f02fb0e0ef0ee87f5c0e7e09750f	32	34	39	41	42	30	31	32
17.	700f07fb5c00e7fe6cbe7e02967f6bf20effe0e6	5986eecefff820ef900bf0b00f0f672fe68fee7e	32	39	41	44	46	37	34	35
18.	290b20ff50e7c8eec806b00f0c88be906ebe7f7e	0e7eee050e05e1035e5fe8908e2ec0ef8ebe000be	33	38	46	48	45	30	32	34
19.	e0eef08f0c62c0e260eebf5f98700e5e8f5b6256	880082060ee0e8b56e900c09b6e0fcb7ee00968f	33	39	44	46	45	40	38	37
20.	e09f9ef70c08ee0f98fb00506e7cf2efffe7ef2b	5957059cf2e72e8f50ef57032ce245eb00946c7b	32	37	46	45	46	30	31	32