

Table 5

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

File number in the dataset	engrat file hash values (40 byte)	engrat 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.	df99f900806bfb0d928c b9099860c890f9d80709	c69c99890899c90c2fcd 97698088cbcd00cfbc0b	30	38	42	45	46	34	31	32
2.	7277fd906c8f9f029f86 bf009cc99f822d0ffd72	d0c099f0c9720f90096c 9dcfb7699788879d6fd8	33	35	49	48	46	30	31	30
3.	ccb79cf27fc0f9cddf9 07860f0f2b6208987bf7c	cf668899698cb99978ff c276b8f09c7b06fd8cfc	37	34	49	48	44	30	31	32
4.	cf668899698cb99978ff 9276b8f09c7b06fd8cfc	cf028096d6c7fb0f9708 dc09f29028277c87668f	29	30	37	39	41	30	28	29
5.	c960cd9098c96c0c9bb2 7bf998269097ddfc9cf8	68998dbfb2bdfc0c9bb2 7bf998269097ddfc9cf	13	11	19	17	18	11	12	13
6.	0cb86bd02f7cddf69d8 c89b7c26686908f07c8bc	dfff7bbfb2bdf69cf00 9f02d9b69899682cb08c9	31	34	37	38	39	29	26	27
7.	9bd20080ffb0cc88f990 2bc09fc980679b720f09	08707cc0760b0f89b898 07c8879cf78606dd9f98	33	39	44	46	47	32	34	39
8.	b86f8897f8c8290c9d0d 0c6f97697b6f8f96bfc2	d09cdc9b60b8cf89f22f d7802c7c90fd09bfcf00	33	37	46	48	43	32	30	34
9.	d96d99f7c92cc87f0c70 0c96fd96922909dc28d8	0f8f9ddfc007fb00c979 f6960fc786fcdcbd809f	32	34	39	44	46	39	38	39
10.	60c02f87806cc6f62999c 968d66896dff097268d	fdc68998bcc60d77f0fb 768d99c9f82b8fbbccff	33	39	44	46	42	35	38	34
11.	f0ff6792f9cf77c60cf9 9cdc9cf680060709cf20	79209976867c692bccf8 27978d928f0d98c9cc29	31	29	30	31	30	29	24	26
12.	f0f8927f28c0c989ffbd 00f96cf2f8d8dbc7b090	8ee8927f28c0c989ffbd ccf96cc298d8d88692f7	14	16	19	18	17	11	14	15
13.	8cf800ccd9f08cfb9907 ccf96db708f7f778cd8b	898f0d202fcd927709c8 d299ddf9ff88909f09d0	33	34	42	46	45	34	36	38
14.	d9092926f8bc6c9c87cd 2c0b0c28ffb2cb2209f7	d8067f6f600006b269cf 97f9c099fccc2887c89b	34	41	49	49	50	34	38	39
15.	d8067f6f600006b269cf 97f9c099fccc2887c89b	29688f6f600786b269cf 97f9c0f6cddc28870ccf	16	19	20	21	23	18	18	19
16.	0dc2976f6cf696b26029 97f9cd0fcccc2788c89b	7cbb20898827f76098f2 99c092866c08ff090cd0	35	36	42	46	45	30	31	32
17.	9060f0c6c09f89ccc79b b6279290c8080976898d	fcf9820b799f9877fc8c 0c688967c9999fcfc099	35	37	42	42	41	30	35	36
18.	c9b7888999fcd970c80 9b6f888f289b8f222b70	6282d992f20d9bf00f77 6999bcf9f987f98907d6	33	34	39	38	39	30	31	32
19.	c7b79d20909fcc008f2f 8ff9f989b92ffd9cfcf9	ff8cdf999b92c7cc9d7f 97c98f6290999ff7c988	31	39	44	42	41	31	34	36
20.	092f96db99cd282fc086 990f9db629f7cf98f96f	c9fd9989c7878668b28f 99f709dff898bc89779	29	28	29	28	28	30	31	32