

Table 1

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 (20 byte)	engrat file hash values (40 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.	29255828773029cc969c905c268c9cc326c23300	527a2250a286cc06577c300cc97269c0c7c30c2c	30	34	38	39	41	30	31	32
2.	534775737c9386cc57a2c28c0c078252002907a2	087cca22627200a2525ca267825ca25c052cc2c2	32	32	37	36	34	30	33	31
3.	c86c9ca28675a22cca2762c55659325572895cc6	7c8305c6c2c5ca220835529725c9c5ccc93855c5	31	35	39	42	46	30	31	30
4.	2c7c2c2785cc003c578725753827572cc5c93333	782595c02c5a2c232875cc2c09cc7c675259c526	32	34	39	44	45	30	32	31
5.	8a27c2c672362952c7a23753272c672850c392c8	2c5ca2c7558c956c725759232c2762c9205c27cc	27	22	29	31	32	21	22	20
6.	cc990c5302c50c5a20cc c778347a23472c252925	2ca29695c8285cc7c557c53c29c55a22c20c6285	29	31	39	42	41	30	29	29
7.	2727ca2cc082ccc62985c039329c527520232c6c	272c95c232c652c3852c557c7292927a2202cca2	26	38	46	45	48	30	31	32
8.	95a206a26567259553c25c257ca29c9c08320650	272c95c232c652c3852c557c7292927a2202cca2	29	35	39	42	41	30	30	32
9.	3255c656c8cc2c566c2308853237c25298c02332	25cc09285233c234a2c7529c3c0cc5632c279797	33	33	42	45	42	32	32	31
10.	52c9203a23826896783323c73525620072c3a289	272565a232c25253c0993c0c78637c555a252572	33	38	45	46	48	30	32	36
11.	95256c2c2c7c8550a228a2c373976a262558a275	272565a232c25253c0993c0c78637c555a25a2a2	30	39	46	49	51	32	30	31
12.	25c5c29ccccc92c5cc9c05592c6ca2283a22732c	5776850cca235267c20582327c7cc3a223809825	31	42	49	51	51	30	33	32
13.	737975c85c79c2523267c5320082832955289209	397276c6cc757205a2883993c772528805872c78	30	45	59	58	55	31	32	30
14.	3898028c02c852855c562062958589557c234a29	c6c2059850266c358282c5325c373552850a297	30	34	39	38	36	30	30	31
15.	c9757765782753c3505c cc8c35a22727a2778c30	72c0cc023a28c767a2c72023275c79ca22605c95	35	35	39	38	38	41	42	41
16.	032669302082c72c20cc27928c28769c0cc56c09	5c28827cccc2590a298775255a28cc2677c7a202	32	32	39	38	39	30	31	32
17.	67232c69a2602993c776953230cc0c8259cc7920	a29c6203927c9c7c7c62c0727272872c62552552	32	39	44	46	45	30	31	32
18.	146c2102358775c527c20c2c8ca2355955ca2083	877c6325c5052c558ccc72887cc6525342c502c0	31	34	39	41	42	30	33	33
19.	3c0c2c34272075c5027263c25c5c56c278c5787c	282c777c7939c82325627cc53297c0599237595c	33	33	41	42	44	30	32	33
20.	c025c375a2c297c7c290895527a25c7695062553	8782592ccc9356c38826863c36c736c9c920c82c	35	38	49	48	45	30	32	33