

Table 3

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

File number in the dataset	athena file hash values (20 byte)	athena file hash values (256 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.	54f4bfb9e745f547197f9df7c9d6c1e7ff95f647	b94cedd41f1b7f5c6459cfdefd7f44d144fe769d	34	29	30	34	31	49	47	46
2.	fc7f91e1e1bbef7f44bf6dedbf44ffefdf41df4	bee74ef47154f5bcd75f4571e4efe4f9c5bdf44	32	37	41	49	47	44	49	52
3.	4f4f9d4cffff7dcf65e19b67eeff9e44d1dfe55	e46ffffefdbef6b14de54f44f744674fdf7d5e	32	55	59	53	57	77	72	74
4.	de4fedfddeff7f4d6dc11d75cf5499d167f4eb	4d4dc4fde9954fc7e64de759fd7beb51ef6ec64d	32	17	22	29	27	29	34	41
5.	65f9bd74ed64beee9eefd576dfdee11fef744794	169e54fd64f47454d5e1f755bf9fe96b6d174d1f	32	34	34	37	38	37	44	44
6.	5dfe117ef56dc5544fcfbd145ddfe9d4fe9b1db	ce5decf9d7bcce97dd7eebef475774e67df6ee54	34	52	44	49	51	59	57	56
7.	f4e5e19f1f1e4bfd4bf9f5e464bdbcbcd1d74ceb	f6746f66e451f1f1ff4d4791f9db55feefbef77e	33	67	67	64	65	77	79	80
8.	f44f9ef4c9efb74ffbbdcecf6d6edee4f6f4d55e	44ccfd6ed7e9e49fcdfbd9d1fe4ff1cddbdebd67	33	18	22	27	24	37	41	46
9.	94fd4e6df4619df6f6f74ec7ddb6fc1ffdfbbccb	5fffc7d9fb5ef75dc7fd4975ff66b6bed456d45d	34	24	34	38	34	49	55	57
10.	ec14c1c5ed46eff49efbd7f7f4e14dc11c4de6cf	edd4f4dfec7c54d419674b4fd714ffed4cdde591	30	37	42	44	49	55	58	61
11.	41f64f6dc6744f49c9ffedc959cd1f96effd91e9	fc7e9eff77f45ebddeebf1c1e4e4dfbdceee65f75	36	38	44	41	37	65	67	69
12.	5e5b1df9d1d1fb9dd1c19f79efff6feeb4fec445	fed1f67cfe54174dc7ff6fc4f47dc65f6ffd74db	35	29	31	34	38	55	54	58
13.	76ec14dffedebdcdcc1ee961d614c4fff5fb5de	4e5f751ebdbd5fbef7ce9be4ceffbcfc9dc49411	34	45	52	54	50	62	67	66
14.	f1ddf4efe459c5f7559feded76effedf49cde56	1efffe5557566cd5fbce1d4b4eb4fdf51fd9579c	30	49	51	52	54	68	72	77
15.	79de9e9ffd5b14efe4cee69e7ee4df9ed5d64d16	45de554c941444f196545d957e167dfcf4ecccdb	33	37	32	37	31	49	55	55
16.	165f45c66497d6c5df174ecdb1941eeff4d7edb	ffde1fceb1dec1e945feb6f417515d5efd45f7df	35	58	61	64	68	79	82	85
17.	ffb5bfbf15ffdf79e9efde4b15f71dfcfdcfccfc	7bd4ebf916b1bf5476e56df6fff57b554d7b7e5	33	60	55	59	57	72	77	84
18.	f74cfcfbbbf97f4475f91f9e97eb1f77fb5cd	ff6dbdc47f1cdef1fce9c5de1517957e44ddc96	33	37	33	38	39	49	58	61
19.	f9b1dcc717f7ef77d54ff4ecf11d161d5eee55d5	1fffbdbd6ffe49b17e446ddcd7de75197594febb	35	65	58	59	64	77	81	83
20.	6be714b1efff4ff116ced471f5c9e4e5b4cfefbd	dd7cdcf5bcfbffff6c7f6b65d6e6f6ce7d9f754c	34	58	59	64	68	79	82	83