

Table 4

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 (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.	b9bed8b87140f977969c90d7e6879d74e6ce4400	ef7eafe0be867706e117400dc97a6970c1740ca7	34	37	30	31	34	49	49	55
2.	e1077e747c9486dce1bfda870c078fee00a901fb	081cdfaf6e1a00eadaddfa678bd7afdc0eb7cbde	35	42	48	49	52	47	49	55
3.	d86c9cae861eeedcee76fcdd6d94edd1e89edd6	77840d76dececbba084eef91aed9cd7cd948ddddd	32	45	49	48	44	55	59	57
4.	bd77fda18edc004dd181bd7e48a7d7ac7ed94444	78ee9d70a7dfaca4f81d7dfc097d7d67eed9cdf6	30	28	30	34	35	55	58	56
5.	8ab1de767a46f9dec7eb41d4b1a761a8e0749ed8	add7ee71ed879d6d7bd1e9f4bce76ed9e0d7e1dc	29	34	30	31	34	49	47	46
6.	dc990cd40fcd0deb70cd178101ab107acaef9fe	f7ba969ed8f8ecc7ced7cd4ce9dedeeced0d6a8e	35	37	42	48	48	55	56	57
7.	b1e7dfed708ec776f98dc0494a9cef7de0e4ac6d	f7fd9ede4bc6ead48dbdde7c1b9f9f1efe0fddba	33	37	40	41	40	65	67	61
8.	9efa06fa6d67be9dd4dbdced1dae9c9c084e06e0	f7fd9ede4bc6ead48dbdde7c1b9f9f1efe0fddba	32	39	40	49	42	55	58	53
9.	4fdec6d678d7bde667a4088d4a41caea98c0f44f	fdcd09b8da44df10eb71ea9c4d07cd64fcb19191	34	39	42	49	48	64	67	68
10.	de79b04ae48e68967844f4714ded6e001ad4ab89	e7ad6eea4acbefd470994c0d786417dedefdaaae	34	37	42	48	46	65	64	67
11.	9dad6dfdfd7c8dd0afb8ab7474916bb6eed8bb1d	e7ad6eea4acbefd470994c0d786417dedefdaaae	33	30	37	38	39	48	46	48
12.	aececb9dccc79fddddd9c0dd9ad67afb84afe74b7	d1168e0c7ab4de61cf0d8e4a771cd4aba48098be	35	31	30	34	38	49	47	46
13.	14791ec8ec19cade4e67cd4f008b84e9eea89f09	497a16d6dd7d7f0dfb884994c71bea880e87ad18	36	33	49	48	46	64	68	67
14.	dbfb0b8c0a78ea8bade6e06f9e8d89ee1ce10ae9	c6ca0e98e0a66c4d8e8fb7d4aec474dde8d0ab91	34	35	35	37	38	49	55	55
15.	c91e176d18b7e474d0e7c78d4dbfe1a1be178740	7ad0cc0f4ba8c767fac7f0a4f7ec197bea60ec9e	35	34	33	34	37	55	59	57
16.	04b66940a08ac7adb0cdf19e87a8169d0c7d6c09	ddb88a77cdcf90ff9871eae8bf8d7b617d7eb0a	34	56	37	38	39	77	79	81
17.	67b4a769ae60b994d7769e4b40770c8bd9c719b0	fa976a049a1d9d77176bd07f1a1b87e76bdeeddb	34	37	42	49	47	88	85	86
18.	c7cdacd77e871ecef17b0c8c8caf4dd9eeca084	817c64fedd0de7ed8dd71a8817c6dfe10a7d0bd0	34	37	37	38	31	59	56	61
19.	4707fc70b1e01ecd0b1f64cad7dde6de187d787d	e8bc177d794978e4ed6f1cce4f9170d99f41e9d7	34	32	37	38	31	44	49	48
20.	70bdc47deecb97d77f9089dea1ffe7769d06eed4	818bd9add794d67488e6864d46c146d9d9e0d8a7	34	31	37	41	42	49	52	57