**Table 6**

The results of computing the value of mean shift between hashes of the obfuscated and
source code malware

| File number in the dataset | Source code hash values | Obfuscated source code hash values | Percentage of malware samples computed using only convolutional neural networks | | | Percentage of malware samples computed using mean shift method in convolutional neural networks | | |
|---|---|---|---|---|---|---|---|---|
| | | | Training epoch | | | Training epoch | | |
| | | | I | II | III | I | II | III |
| 1. | 12bd22c6672c65c76c66 72962c556c66cbdbb665 | 4c65c566c2677267b9d2 5d9c7c4c522b6c74775c | 30 | 32 | 31 | 42 | 48 | 47 |
| 2. | 77c7566565977726c92c 49cc44576c267c5666d7 | 122c2769c26c2c96626d 46d2d7c776692d22d6dc | 49 | 48 | 46 | 38 | 37 | 38 |
| 3. | c727cc4c652b7672cd26 2927952d2276767276dc | 26b7472124c92c6c472b 2226c76674c4cb69c7bc | 30 | 31 | 35 | 41 | 42 | 46 |
| 4. | 67627c7c7c6c27cc27c7 b9766d2c2dd2d76266cc | 766b29cc662c4b7c4656 d6c6c94722c725649c77 | 37 | 36 | 34 | 42 | 41 | 43 |
| 5. | c7674c625bb762cc6657 c7c2dd62964749c6c799 | b626d929652694c69ccb cd2c7bcc6269d6222b29 | 31 | 30 | 32 | 48 | 42 | 41 |
| 6. | bc62c7d6625776922c6c 7dcc76494b52667c27dc | 25565246c567d265c95c 761277575dcc6222669b | 30 | 29 | 31 | 33 | 34 | 38 |
| 7. | c6c7bbc295cb296c45d4 2c9726b9c444c6db6446 | 72225c7662b2d2666994 c6d2bdc4c55c77ddc675 | 30 | 31 | 32 | 42 | 45 | 47 |
| 8. | 926c222b27976cb6279d 2c6d776662572b5c4c2b | 474c7c2222c6c25666d9 2666245c4bc9b9727669 | 41 | 49 | 48 | 52 | 54 | 57 |
| 9. | 46cc5cb25b222bcb9747 6626c77c466696ccb2cc | c6927cc6c74c9267c672 6d2cc46c25c6b5cc45dc | 29 | 28 | 27 | 31 | 34 | 32 |
| 10. | c2dd972462d22229777c 6c6bc776927272667c92 | cc6776cb56c4cc672626 c99cc77462d7756c4556 | 30 | 34 | 32 | 39 | 40 | 41 |
| 11. | 662722626b4d56cc5c62 6c6d2749262672922b72 | 47c4649d7b726c7b292d 54924d766d22652452c6 | 39 | 38 | 39 | 50 | 48 | 46 |
| 12. | 96c2c227ccdcb4c6256c c2666d24c6676b62ccc5 | 2725b7277776276b2727 5252225ccc76c5927c6d | 38 | 34 | 38 | 42 | 46 | 45 |
| 13. | 7127c62c6cccd79c2d76 cc66bc76d67c62654cb2 | 67c6cb92c5776bd52c74 767977c2bd45926259c6 | 46 | 48 | 44 | 37 | 34 | 35 |
| 14. | dc62ccd946c962292db c271226c4c5c49c261272 | 66c12664556672cd62dc 76962d2c665d5672226d | 33 | 32 | 34 | 42 | 45 | 46 |
| 15. | c222cbc52cb749222725 b6cbccc4b66597415b2c | bcc5dc244cdb22cc6d67 69d6762ddc6575722b56 | 40 | 42 | 43 | 49 | 52 | 54 |
| 16. | c5644c2557677c6629c2 7622466c22622dcdb264 | 7cc69726612b72b26c6b 6c2bc24b4596d9c262c5 | 42 | 42 | 40 | 52 | 54 | 56 |
| 17. | 6266c6b4476259cc9c2c ccc292b752722cb62677 | 2677762696c66c2666795 222cdc626677cd74529 | 40 | 41 | 42 | 52 | 50 | 51 |
| 18. | 2677762696c66c2666795 222cdc626677cd74529 | 662b297cc6b6bc2924d2 cc2655c66c66774cdb9c | 31 | 30 | 32 | 42 | 42 | 41 |
| 19. | c6cd7666cc726222db56 74c7772cc6b772646cc4 | c9cc7dc9cdc662524c46 c626b74c29b7726c5d26 | 38 | 35 | 34 | 48 | 47 | 44 |
| 20. | 2d256ccc2c2125727725 4b6b66c61294c12c66d2 | 7c26b6526d226c7c7c47 c25612cc2c6cb256c5c2 | 42 | 42 | 46 | 49 | 51 | 53 |