Homomorphic cryptocomputing

Computing without decryption

Over the past several years, the development of homomorphic cryptosystems has created something of a revolution in the world of cryptography. Ultimately, these systems enable cryptocomputing—randomly complex computing directly on encrypted data—and provide the foundations required to implement data encryption by construction .

Data processed and sent via a server or the cloud is constantly encrypted and computing is done on encrypted data. The very rapid gains in performance made over the past few years have now opened the door to integrating cryptocomputing into early industrial prototypes.

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