SHAFFI GOLDWASSER

COMPUTER SCIENTIST, CRYPTOGRAPHY EXPERT

Goldwasser is an Israeli-American professor of electrical engineering and computing. Much of her work focuses on what "secure" really means via rigorous mathematical study. One of her greatest achievements is the "zero knowledge proof," which uses cryptography to prove that something is true without revealing any further information. Zero knowledge proofs are used today in sophisticated e-voting systems to prove proper tallying of votes without revealing who voted for what. Goldwasser won the prestigious Turing Award in 2012 for her research on cryptography. Goldwasser is currently a professor of Electrical Engineering and Computer Science at MIT as well as the co-founder and chief scientist of Duality Technologies, which allows organizations to safely share and analyze encrypted data.

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