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present

Analysis of Bitcoin Network Structure and Anonymity Characteristics

by

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Time: 5:00 p.m. to 6:30 p.m. -- 5:00 p.m. Pizza/Networking, 5:30 p.m. Presentation
Location: RIT Campus, Golisano Hall - Bldg 70, Room 2500
Computer Society announcements and venue information:
   http://ewh.ieee.org/r1/rochester/computer
Cost: Free. Open to IEEE members and non-members.
Registration requested for food/pizza count: https://events.vtools.ieee.org/m/41174

Abstract

In 2008, a paper published under the name Satoshi Nakamoto, describes a system for anonymous and decentralized electronic cash called Bitcoin. The Bitcoin network uses a proof-of-work scheme to verify transactions, which are then saved in a permanent ledger called the blockchain. This decentralized system is said to provide anonymity. In this talk, we will discuss the overall structure of the Bitcoin network and what privacy and anonymity implications lie within.

Speaker's Biography

Liam Morris is a Site Reliability Engineer at Google and an alum of the RIT Computer Science department. His academic interests focus primarily on cryptography, especially with homomorphic cryptosystems, privacy, and anonymity. In 2015 he completed his BS and MS in Computer Science with his thesis, "Anonymity Analysis of Cryptocurrencies." Liam is currently a visiting faculty member in the Hampton University Computer Science department.