

DETERMINING AND BLOCKING OF SYBIL USERS ON ONLINE SOCIAL NETWORK

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ABSTRACT

Sybil attacks are one of the well-known and powerful attacks against OSNs. The malicious attacker generates a Sybil group, and pretends to be multiple, distinct users (called Sybil users). Sybil attacks have several harms in OSNs. Dangerous is that multiple Sybil users collude together and form a Sybil group. In this project, we present the first attempt to identify and validate Sybil groups in online social network. We build Sybil group detector based on multiple attributes. We present the first attempt to identify and validate Sybil groups in the real system. First of all, we build the Sybil group detector based on multiple attributes, Including activity, popularity, social degree, friend relationship and IP address. Our Sybil group detection and validation mechanisms have important implications for system design to defend against Sybil attacks in OSNs.

KEYWORDS: Detection, Validation, Online Social Networks