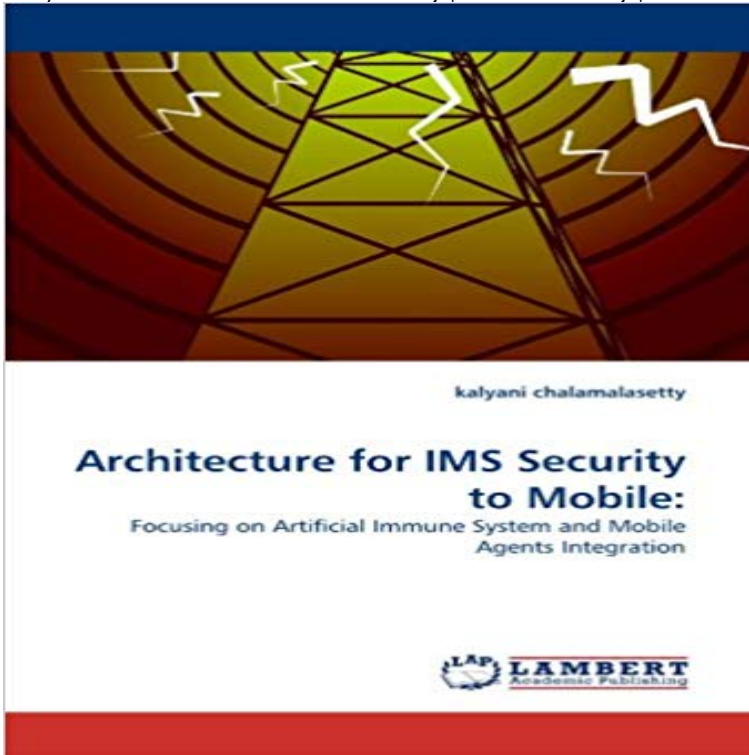# Architecture for IMS Security to Mobile:: Focusing on Artificial Immune System and Mobile Agents Integration

The IP Multimedia Subsystem (IMS) is an open IP based service infrastructure that enables an easy deployment of new rich multimedia services mixing voice and data. The IMS is an overlay network on top of IP that uses SIP as the primary signaling mechanism. As an emerging technology, the SIP standard will certainly be the target of Denial of Service (DoS) attacks and consequently IMS will also inherit this problem. The objective of proposed architecture for IMS is to cram the potential attacks and security threats to IP Multimedia Subsystem (IMS) and explore the security solutions developed by 3GPP.This research work incorporates the ideas of immune system and multiagent architecture that is capable of detecting, identifying and recovering from an attack. The proposed architecture protects IMS core components. from external and internal threats like eavesdropping, SQL injection and denial-of service(DoS) attacks. In the first level i.e. CPU under normal load all incoming and out going messages were investigated to detect and prevent SQL injection. Second level considers Denial of Service (DOS) attacks when CPU load exceeds threshold limit.

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