**Identity Management Standardization in the Cloud Computing**

**Abstract**

Identity management is a key security function in cloud computing that should be enforced by on demand self-service as a fundamental characteristic of cloud computing (NIST SP 500-291). There is a need to newly designed IDM systems taking into consideration dynamic aspects of provisioning, de-provisioning, synchronization, entitlement, lifecycle management, etc. It comes out that any delay in a real time user de-provisioning can lead to a security vulnerability such as non authorized access.

My talk will be about Identity management standardization in cloud computing. The objective is to highlight the need for establishing interoperability and trust model standards for exchanging security information such as between objects and subjects (Common Criteria) and to summarize investigation research about relevant technologies like Security Assertion Markup Language (SAML), Simple Cloud Solution Management (SICM) etc.

**Keywords**: cloud computing, identity management (IDM), authentication, authorization, single sign on (SSO), federated identity (FID), Software as a Service (SaaS), Infrastructure as a Service (IaaS), Platform as a Service (PaaS), identity and access management (IAM).