Abstract

In today’s era of the ubiquitous computing, the Internet has become the main mode of data communication. Most of the devices used in wireless/mobile environments, that form wireless networks, ad-hoc networks and wireless sensor networks etc., have low computational power, memory and limited battery power. In such a Pervasive Computing environment, providing security to data becomes a complex task. Elliptic Curve Cryptography (ECC) has become the preferred choice for the pervasive computing environment because of its suitability to the devices having limited bandwidth, battery power, less computational resources and less memory. This paper provides an introduction to ECC and presents a survey on the current use of ECC in the pervasive computing environment.

Reference
- Erik-Oliver Blaß, Martina Zitterbart, “Efficient Implementation of Elliptic Curve
Cryptography for Wireless Sensor Networks", Telematics Technical Reports

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Elliptic curves          Public Key Cryptography          Security

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