

# **Signcryption - Unsigncryption Based Data Confidentiality for Tightening the Data Access Control Security in Named Data Network**

R. Buvanesvari, K. Suresh Joseph, S. Santhosh

PKIET, Karaikal, Puducherry, Pondicherry University, Puducherry

## **ABSTRACT**

Named Data Network is one of the networks where it is also called as Information centric network (ICN). The main objective of this paper is to provide a security for NDN network in terms of Data Confidentiality. While thinking about the NDN, data storing and access control is one of the major challenges lying ahead. This paper provides a Signcryption methodology for attain data confidentiality through tightened authentication simultaneously across NDN. The Signcryption and UnSigncryption (SUS) algorithm involves key-generation, signcryption and unsigncryption for tightening the confidentiality while data storing and access in NDN. The proposed Signcryption-unsigncryption algorithm is implemented in C++ programming language and the efficiency is verified. From the experimental results, it is verified that the proposed method outperforms than the existing approaches.

