

**Contents**

Editorial i

**Research**

Handover Mechanism for Mobile User and Femtocell for LTE Network-  
Talha Naqash, Kashif Shabir 1

Layered Network Security Policies on OSI Model-  
Sabeela Pasha, Attique Shah, Muhammad Aadil 6

Various Attributes in the Theory of Computation-  
Kiran Qazi 18

Research Review of Development of Novel Routing Algorithms for Mobile Ad-hoc Networks-  
Muhammad Asif Khan, Sahibzada Zakiuddin 29

**Book Review** 37

**Conference Notification** 39

- Ninth International Conference on Digital Information Management (ICDIM 2014)
- First International Conference on Future Generation Information and Communication Technology (FGICT 2014)

## Editorial

Many applications are introduced to boost the efficiency of network communication. One such application is the femtocell network which is deployed by the authors *Talha Naqash* and *Kashif Shabir* in their paper on **“Handover Mechanism for Mobile User and Femtocell for LTE Network”**. A mechanism of handover is introduced in this paper between femtocell and User Equipment. This mechanism will enable to increase the QoS and performance. Experimental results proved to offer better performance of the new mechanism than the classical ones.

To secure a network and highlight the major issues of the network security and recovery plans, the authors *Sabeela Pasha*, *Attique Shah* and *Muhammad Aadil* have suggested policies for a network which is well managed and strongly configures the security on each OSI layer individually. In the paper on **“Layered Network Security Policies on OSI Model”** they installed ASA routers, Firewalls, Secure blocks, SNMP applications, Password Authentications Radius servers and TACASA Server within the network and VPNS, SSH, Telnet, IP SEC tunnels for the remote access through these secure channels the data is encrypted in different techniques like MD5 (message digests 5) algorithms.

In the next perceptive paper on **“Various Attributes in the Theory of Computation”**, the author *Kiran Qazi* has given the over view of all attributes which have impact in theory and practice.

In the last paper on **“Research Review of Development of Novel Routing Algorithms for Mobile Ad-hoc Networks”** the authors *Muhammad Asif Khan* and *Sahibzada Zakiuddin* have investigated the various routing algorithms proposed for MANETs and the inherent problems which drive the development of these schemes.

The published papers offer insights in to computing paradigms.

## Editors