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Professor & Head, ECE Department  
KIET Group of Institutions  
(NAAC 'A' Grade, NBA Accredited and ISO 9001-2000)  
13-Km Stone, Ghaziabad-Meerut Road,  
Ghaziabad-201206, UP, INDIA  
Email ID: - drsanjaysharma15@gmail.com

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## Editorial

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Radio over Fiber is an upcoming wireless standard which is being designed to seamlessly integrate many different standards as well as integrate broadband communication wirelessly. As the technology is improving so are the demands of end users and their applications increasing. A wide variety of new applications are being invented daily. These applications have different demands from the underlying network protocol suite. Several issues need to be taken into account while considering a wireless network. Quality of service (QoS) is one of the most important among all.

Decoding of LDPC block codes over Convolutional codes with channels have been shown to be capable of achieving the same capacity-approaching performance as LDPC block codes with iterative message-passing decoding. However, for comparing block and convolutional codes tied to the implementation complexity of trellis based decoding are irrelevant for message-passing decoders. Complete-MDP convolutional codes perform in many cases better than comparable MDS block codes of the same rate over the erasure channel.

A new high gain, multiband hexagonal-shape slot loaded microstrip patch antenna is printed on a dielectric substrate, backed by a metal board, and directly fed from a  $50 \Omega$  coaxial cable. The introduction of rectangular slot in hexagonal antenna offers a low profile, multiband, high gain and compact antenna.

In Wireless Mobile Cellular Networks, users usually move between heterogeneous networks. In this type of environment, handoff procedure algorithm, handoff decision and its management is very important issue. Wireless Mobile Cellular Network supports the handoff process for users between various wireless technologies such as WLAN, CDMA and modern 3G networks.



## Preface

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**Dear Researchers,**

We take this opportunity to welcome you all to the Volume No 3, Issue No. 1 of International Journal of Communications & Electronics (KIET - IJCE). This journal will provide a forum for in depth and substantial discussions on the theory, design and implementation of the emerging technologies in Communications, Networking, Microwave and Electronics techniques, thus providing solutions and strategies for business resilience.

It gives us an immense pleasure to have an amalgam of researchers from the fields of Communication Engineering, Electronics, and related technologies. The purpose of the Journal is to provide a platform to foster interdisciplinary communication among the delegates and to support the sharing process of diverse fields in various concepts and principles related to these domains.

Our appreciation also goes to entire team whose dedication and timeless efforts have gone for number of days for the second issue of the Journal.

**Editors**



## Message

I am delighted to note that the Department of Electronics and Communication Engineering, KIET Group of Institutions, Ghaziabad is introducing Volume No 3, Issue No. 1 of International Journal of Communications and Electronics (KIET - IJCE).

I appreciate the efforts on the part of the Editorial Committee in bringing out an issue on Communications, Networking, Microwave and Electronics techniques.

I understand that the papers contributed for publication in the Volume No 3, Issue No. 1 are on almost all the current aspects of Communication Systems, Electronics systems, Microwave Engineering, Signal Processing & Applications, Networking Technologies and several others.

I have great pleasure in congratulating the Editors of this issue of KIET - IJCE for their untiring efforts in bringing out this third Volume No 3, Issue No. 1 of KIET-IJCE which will be a valued treasure for all who pursue research in Communications, Networking, Microwave and Electronics Engineering areas.

Let me close with warmest regards.

**Dr. Sraban Mukherjee**  
Director  
KIET



## Message

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It gives me immense pleasure in writing this foreword for the Volume No 3, Issue No.1 of the KIET International Journal on Communications and Electronics (KIET - IJCE). This journal is targeted towards researchers, professionals, educators and students to share innovative ideas, issues, recent trends and future directions in the fields of Electronics and Communication Engineering.

The Volume No 3, Issue No. 1 of the journal KIET-IJCE includes papers on the theory, design and implementation of the emerging technologies in the field of Communications, Networking, Microwave and Electronics techniques. Furthermore, it will enable the researchers in various domains to foster the exchange of concept, prototypes, research ideas and the results of research work which could contribute to the academic arena and also benefit business and industrial community.

**Dr. Sanjay Sharma**  
Editor – in - chief  
KIET - IJCE

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