

International Conference on Next Generation Networks 2010

IET Seminar Digests 2010/001

**Mumbai, India
24 – 25 September 2010**

ISBN: 978-1-61839-845-1

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2010) by the Institution of Engineering and Technology
All rights reserved.

Printed by Curran Associates, Inc. (2012)

For permission requests, please contact the Institution of Engineering and Technology
at the address below.

Institution of Engineering and Technology
P. O. Box 96
Stevenage, Hertfordshire
U.K. SG1 2SD

Phone: 01-441-438-767-328-328
Fax: 01-441-438-767-328-375

www.theiet.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Modelling Of FBG For Encoding/Decoding In SAC-OCDMA System	1
<i>S. Pawar, R. Shevgaonkar</i>	
Design and Analysis of PCF based Arrayed Waveguide Grating Demux for Optical Network	5
<i>J. Digge, S. Narayankhedkar</i>	
Peak-to-Average Power Ratio Reduction in Orthogonal Frequency Division Multiplexing	9
<i>S. Mohani, M. Sutaone</i>	
Zigbee Based Low Power Wireless Sensor Network Motes	15
<i>N. Kulkarni, R. Rakesh, S. Bhargava, S. Bundela, R. Hegde</i>	
Performance Analysis and Comparison of Adaptive Beam Forming Algorithms for Smart Antenna Systems	21
<i>A. Udawat, P. Sharma, S. Katiyal</i>	
Design And Integration Of Slotted And Cross EBG Structure With Microstrip Patch Antennas	26
<i>K. Ray, S. Krishnan, F. Fernandes</i>	
Fixed & Mobile Convergence: A New Approach	31
<i>H. Borale, V. Mishra, P. Wani</i>	
Multiprotocol Communication for Mobile Devices	38
<i>R. Nagaraja, G. Raju</i>	
Simulation Based Performance Evaluation of ICI Mitigation Schemes for 4G Systems	44
<i>S. Boddu</i>	
Energy Efficient Routing Protocol for Structured Deployment of Wireless Sensor Networks	50
<i>S. Sofi, R. Naaz</i>	
M-PSK MB-OFDM Ultra Wideband Communication System Performance for 4G High-Rate IEEE 802.15.3a Wireless Personal Area Networks	53
<i>M. Chowdhury, C. Bose</i>	
Modeling of Indoor Radio Propagation Channel for IEEE 802.11b/g	59
<i>D. Karia, T. Potdar, B. Lande, R. Daruwala</i>	
Fractional Frequency Reuse for Mobile WiMAX System to Improve Coverage and Capacity	65
<i>R. Potbhare, P. Wani</i>	
Author Index	