

Contents

1 Optimum Detection Probability with Partially Controlled Random Deployment of Wireless Sensors with Mobile Base Stations.	1
Junghyun Jun and Dharma P. Agrawal	
2 A Novel Cross-Layer Architecture for Video Streaming Over MANET	11
Priya Jumrani and Mukesh Zaveri	
3 RPL-SCSP: A Network-MAC Cross-Layer Design for Wireless Sensor Networks	27
Raja Ben Abdesslem and Nabil Tabbane	
4 Congestion Avoidance and Lifetime Maximization in Wireless Sensor Networks Using a Mobile Sink	37
Sagar Motdhare and C. G. Dethé	
5 Providing Stable Routes in Mobile Ad Hoc Networks.	51
Arka Prokash Mazumdar, Adhar Surange and Ashok Singh Sairam	
6 <i>p-shrink</i>: A Heuristic for Improving Minimum All-to-All Power Broadcast Trees in Wireless Networks	61
Wilson Naik Bhukya and Alok Singh	
7 Hook-Shaped Printed Multiband Antenna for Different Wireless and Mobile Applications.	71
Amit Kumar Tripathi and B. K. Singh	
8 Return Loss and Bandwidth Enhancement Using Back Fire Microstrip Patch Antenna	77
Puran Gour and Ravi Shankar Mishra	

9	Dynamic Spectrum Sensing in Cognitive Radio Networks Using Compressive Sensing	89
	Neeraj Kumar Reddy Dantu	
10	Scheduling Transmissions of Coexisting Wireless Body Area Networks Using Minimum Weight Match	101
	Anagha Jamthe and Dharma P. Agrawal	
11	A Cluster-Based Coordination and Communication Framework Using GA for WSANs	111
	Arun Kumar and Virender Ranga	
12	An ACO-Based Efficient Stagnation Avoidance Methodology for MANETS.	125
	Vinaykumar M. Kolli and G. S. Sharvani	
13	An Approach to Network Coding at Data Link Layer	133
	Vivekanand Jha, Nidhi Nagpal, Anchal Goswami and Bhavnit Kaur	
14	Event Triggered Multipath Routing in Wireless Sensor Networks	145
	A. V. Sutagundar, S. S. Manvi and N. C. Debnath	
15	Algorithm for Gunshot Detection Using Mel-Frequency Cepstrum Coefficients (MFCC)	155
	Preetam Suman, Subhdeep Karan, Vrijendra Singh and R. Maringanti	
16	Fault Tolerant QoS Adaptive Clustering for Wireless Sensor Networks	167
	T. Shiva Prakash, K. B. Raja, K. R. Venugopal, S. S. Iyengar and L. M. Patnaik	
17	A New Approach for Data Filtering in Wireless Sensor Networks	177
	Nidhi Gautam, Sanjeev Sofat and Renu Vig	
18	A Secure and Efficient Authentication Protocol in VANETs with Privacy Preservation	189
	Chandra Sekhar Vorugunti and Mrudula Sarvabhatla	
19	Design Approach of Self-Organized Routing Protocol in Wireless Sensor Networks Using Biologically Inspired Methods	203
	A. N. Thakare and L. G. Malik	
20	Energy Efficient Fuzzy Clustering in Wireless Sensor Network	221
	Suman Bhowmik and Chandan Giri	

21	Network Optimization in WSN's	233
	Rakhi Khedikar, Avichal Kapur and M. D. Chawan	
22	A Secure and Efficient Password-Based User Authentication Scheme for Hierarchical Wireless Sensor Networks.	245
	Chandra Sekhar Vorugunti and Mrudula Sarvabhatla	
	About the Book	261
	About the Editors	263
	Author Index	265

Proceedings of Ninth International Conference on
Wireless Communication and Sensor Networks
WCSN 2013

Maringanti, R.; Tiwari, M.; Arora, A. (Eds.)

2014, XV, 266 p. 135 illus., Hardcover

ISBN: 978-81-322-1822-7