

Contents

Organizing Committee	v
Technical Committee	vii
Preface	ix
Session 1	
Analysis of a Mathematical Model for Worm Virus Propagation <i>S.-J. Wang, C. Liang and Q.-M. Liu</i>	3
SABAD: Self Assured Black-hole Attack Detection on AODV Protocol in MANET <i>K. S. Choudhary, S. Tripathy and K. V. Arya</i>	7
LIC-based Fast Forwarding towards Scalability, Simplicity, Flexibility and Security <i>K. Xiong, Z.-D. Qiu, Y. Zhang, Y.-C. Guo and H.-K. Zhang</i>	13
Push Technology with Location Tracking & Data Filtering for Wireless <i>C. P. Reddy, K. Prakhya and T. R. Rao</i>	19
Dynamic Speed Response of the Internal Model Controller with Dither Injection <i>N. Amuthan, R. Mohan and N. Sivakumar</i>	25
An Ownership Sharing Protocol for RFID without a Trusted Third Party <i>G. Kapoor and S. Piramuthu</i>	28
Queuing Analysis of IEEE 802.11 WLAN <i>O. Bhat, N. S. Shankar and K. Venkataramaniah</i>	31
A Localization Algorithm for a GPS-Free System with Static Parameter Tuning <i>K. Padia, G. A. Vikas, H. S. Iyer, V. R. Darshan, N. P. G. Prasad, A. Srinivas, H. Khan, A. Gupta and S. Olariu</i>	37
Session 2	
HELLO Expired Time Based Greedy Routing Scheme for Mobile Ad Hoc Networks <i>S. Sharma</i>	45
A Role Based Trust Model for Peer to Peer Systems <i>C. Selvaraj and S. Anand</i>	50
Internetworking Interface Function for Charging and Billing in IP Telephony Services <i>C. Chakraborty, P. S. Chakraborty, S. S. Pathak and S. Chakrabarti</i>	55
Optimized Route Request Algorithms for On Demand Multicast Routing Protocol <i>B. Venkatalakshmi, C. Dhivya and G. Jayachandran</i>	60
A Class of Cayley Graph Interconnection Networks based on Rosenbloom-Tsfasman Metric <i>W. B. Vasantha and R. Rajkumar</i>	66

Research on the Framework of Networking Simulation Training System <i>L. Luo and Y. Gao</i>	73
Combined Approach of Service and Route Discovery in Mobile Ad Hoc Networks <i>K. Modi and K. Singh</i>	77
Advanced Link State Protocol <i>K. Prabhakaran</i>	82
Session 3	
Improving Basic Cases of Data Mining <i>H. Samavarchi, M. R. Dehghani and H. Ghasemzadeh</i>	89
High-Performance FPGA Implementation of Compact Single Round AES Design <i>V. Patel, R. C. Joshi and A. K. Saxena</i>	93
Secure Protocol for Delivery of SMS Banking Services <i>S. S. Ahmeda and A. M. A. Edwila</i>	98
The Application of Automatic Monitoring System for Electrostatic Precipitator <i>K. Wu, Y. Zheng and Y. Ma</i>	102
Key Establishment and Management Scheme for Mobile Sensor Nodes in a Limited Geographic Region <i>N. Shah</i>	107
EPR Data Hiding in Medical Images with Integrity Checking <i>S. Dhavale, S. Mali and R. Jalnekar</i>	113
An Optimized Method for Scheduling Process of Scanning for Handover in Mobile WiMAX <i>M. Kawser, N. I. bin Hamid, M. A. Naser and A. Mahmud</i>	117
Improving TCP Performance with Selective Negative Acknowledgement in Hybrid Optical Packet Network <i>Y. Ren, H. Tang, J. Li and H. Qian</i>	122
Session 4	
Behavioral Analysis of Reactive MANET Routing Protocol for Streaming Multimedia Applications <i>A. Valarmathi and R. M. Chandrasekaran</i>	129
Improving Handover Latency by using Cross-Layer Direct Communication Model in IEEE 802.16e Broadband Wireless Access Networks <i>S. R. Poorahmadi and H. Beigy</i>	133
Swarm Formation in a Multi-Swarm Network Centric Warfare <i>P. Lalbakhsh, N. Sohrabi and M. N. Fesharaki</i>	138
Channel Assignment in WMNs: Issues and Solutions <i>A. Kavitha and A. Negi</i>	142

Identifying Covert Messages inside an Stegnographic Image using Neural Network <i>I. Khan and B. Verma</i>	149
Speech Enhancement using Independent Component Analysis based on Entropy Maximization <i>S. Nakhate, R. P. Singh and A. Somkuwar</i>	154
Multi Operator Delimiter Based Data Encryption Standard (MODDES) <i>P. Gope, D. Ghosh, A. R. K. Chelluri and P. Chattopadhyay</i>	159
A Comparative Study of Performance Based Crypto Analysis Features for Standard Data Encryption Algorithms with (MODDES) <i>A. R. K. Chelluri, D. Ghosh, P. Chattopadhyay and P. Gope</i>	164
 Session 5	
A Radix-2 ² Pipeline FFT for Ultra Wide Band Technology <i>K. Harikrishna, T. R. Rao and V. A. Labay</i>	171
A Key Recovery Attack on Chang-Chang Password Key Exchange Protocol <i>R. Padmavathy and C. Bhagvati</i>	176
VBR Video Traffic Prediction and Analysis for Efficient Resource Utilization <i>T. Raghuveera, A. Dhanalakshmi and K. S. Easwarakumar</i>	182
Advanced Authentication & Password Reset Manager <i>P. A. Bamnodkar, H. K. Sawant, G. V. Garje and P. Kulkarni</i>	187
Intrusion Detection in Wireless Mesh Network using Incomplete Non-cooperative Game Theory <i>V. Sharma, P. V. Krishna and V. Saritha</i>	191
Test Case Mining <i>L. Raamesh and G. V. Uma</i>	196
Efficient Intrusion Detection System Models <i>U. Adsule, V. K. Pachghare and P. Kulkarni</i>	199
A Survey on Reconfigurable Architectures for Future Wireless Networks <i>T. Suresh, J. Henry and P. Rangarajan</i>	204
 Session 6	
Delay Analysis of Two Way Reservation Schemes in Optical Burst Switching Network <i>M. R. Gandhi, E. Mohan and R. Sathyan</i>	211
Reducing the Resource Intensity in AntNet for Mobile Ad-hoc Networks <i>D. N. M. Rao and V. K. Prasad</i>	216
A Novel Approach for Admission Control using Graceful Degradation in Networks <i>A. K. Shukla and S. S. Pathak</i>	221
COGMAN — A Cognitive Radio Based System for Integrating Ad-hoc Networks <i>P. Jain, N. Nawathe and A. Malhotra</i>	226

An Experimental Study on Localization using Multiple Bluetooth Devices <i>S. Kumar, T. Singh and P. Awasthi</i>	231
Analysis of Basic Components and Design Required to setup a Network Wired/Wireless <i>M. Kiruthika, S. Dange and H. Dhanashree</i>	236
Detection of Faces and Facial Features in Color Images <i>A. H. Sable and K. C. Jondhale</i>	241
Faces Detection and Facial Features Extraction in Color Group Images <i>A. H. Sable and K. C. Jondhale</i>	246
 Session 7	
Grouping of Meta Knowledge for Problem Solving by Clustering Techniques <i>M. N. Vijayalakshmi and R. Vasantha</i>	253
Handoff Latency and Packet Dropping Probability in Layered MIPv6: A Mathematical Analysis <i>N. Dutta and I. S. Misra</i>	257
Identification of Malicious Node in Dynamic Source Routing Protocol <i>G. Gupta</i>	262
Comparative Call Flow and Performance Analysis of H.323 and SIP Protocols using OPNET IT Guru <i>S. G. Thorenoor and J. Venugopalan</i>	267
Intrusion Detection System for Wireless Ad-hoc Network <i>K. Chandravanshi, A. Tiwari and M. Bathre</i>	272
Routing of Quality of Service Packets on Auction in Mobile Ad Hoc Networks <i>P. K. Kvnnsd, B. A. Krishna and K. J. Jegadish</i>	277
Linear PIC Receiver for DS CDMA Systems <i>K. R. S. Kumar and R. K. Kumar</i>	282
Networks for NCW: Concepts and Issues <i>D. K. Sunil</i>	288
 Session 8	
Optimizing TCP Quality of Service Parameter using Linux Kernel Based Tuning Parameters for High Performance Networks <i>S. N. Pradhan, P. Sharma and H. Nimbark</i>	295
Adaptive Service Coordinator Election in MANET <i>J. Cynthia and V. Sumathy</i>	300
Research on Compensation Policy Scheduling Algorithm for Multi-core Processors <i>B. Zhou, J. Qiao, S.-K. Lin, and E. Wang</i>	305

Design and Realization of Wireless Real-time Flood Control and Disaster Relief System <i>W. Zhang</i>	310
Sawang: Visualizing Criminal Networks of Telephone Records for Tracking Possible Collaborators <i>R. A. Raub and R. Raoh</i>	314
Implementation of a System Dynamics Simulation Model: Pricing Strategy Simulator in Internet-based Decision Support <i>Z. Yusof, R. Mohamed, N. A. A. Husin, F. C. Yayah, K. B. Z. Abidin</i>	321
User-centered Privacy and Trust Model in Cloud Computing Systems <i>A. Dehghantanha, N. I. Udzir, R. Mahmood, Z. A. Zulkarnain</i>	326
A Case Study of Barriers to ERP Adoption in a Malaysian Medium-sized Enterprise <i>M. S. Abdul Rahman, N. Mohamed and R. Hussein</i>	333
AI-based Friction Modeling and Compensation in Motion Control System Using ANFIS <i>I. B. Tijani, M. Wahyudi and H. H. Talib</i>	338
Turn-on Time Delay of Degraded Bulk Uncooled Semiconductor Laser Diodes <i>M. S. Ab-Rahman and M. R. Hassan</i>	345
Oops I Saw Somethin! Ease of Access to Online Adult Material by Minors <i>S. Sinnappan, P. Vigilante, E. Robinson, M. Hughes and I. Mansour</i>	351