2012 International Conference on Communications and Signal Processing

(ICCSP 2012)

Chennai, India 4 – 5 April 2012



IEEE Catalog Number: ISBN: CFP1289M-PRT 978-1-4673-1621-7

CONTENTS

An Analytical Approach to S-box Generation SakthiVigneshRadhakrishnan and Sudharssun Subramanian	1
Enhanced Power Control MAC Protocol for Wireless Ad Hoc Networks Sofy Harold and A. Vijayalakshmi	6
Joint VBLAST/STBC Assisted MIMO MC-IDMA System in Frequency Selective Channels: Performance Results K.S.Vishvaksenan, R.Seshasayanan and YuvarajKrishnamoorthy	12
Multi Objective Functions for Software Module Clustering With Module Properties T.Deepika and R.Brindha	17
Improving Link Quality Using OSPF Routing Protocol in a Stable Wifi Mesh Network G.MerlinSheeba, AlameluNachiappan and P.S.L.Gokulnath	23
IEEE 802.21 Media Independent Handover Mechanism for Heterogeneous Networks S.Tamilselvan and C.Tamizhselvan	27
Seamless Vertical Handoff in Heterogeneous Networks Using IMS Technology L. Nithyanandan and I. Parthiban	32
Performance Analysis of PTS using GPW and RPW to reduce PAPR in OFDM systems <i>P.Elavarasan and G.Nagarajan</i>	36
MUTP Aided MIMO Downlink Communication System with Noisy Feedback: Analysis and Performance Results SriramRavichandran, PrabagaraneNagaradjane, Suraj Krishnan, NithinSrinivasan and ShruthiRavichandran	42
A Novel QoS Aware Crosstalk Reducing Routing Wavelength Assignment in All Optical Networks with Path Protection Consideration <i>K</i> . <i>Ramesh Kumar and R. S. D. WahidaBanu</i>	47
Transmitter Preprocessing Aided Inter-Cell Relay Cooperation for Interference Management in Downlink Communications NithinSrinivasan, PrabagaraneNagaradjane, ShriramSwaminathan, ShruthiRavichandran and SriramRavichandran	52
A Novel Approach for the Detection of New Vessels in the Retinal Images for screening Diabetic Retinopathy Saranya. K, B. Ramasubramanian and S. KajaMohideen	57
Performance Analysis of Spatial Channel Separation for Interference Mitigation in Femto cellular Systems Shivram S Arunachalam, Sekhar Kishore Kumar, VivekManickam and S SakthivelMurugan	62
An Efficient FFT/IFFT Architecture for Wireless communication MdNooruzzaman Khan, M.Mohamed Ismail and P.K.Jawahar	66

MUTP Assisted Uplink Multi-Cell MIMO System over Frequency-Selective Channels PrabagaraneNagaradjane, SabarishKarthik, PrasaanthMuralidharan, YuvikaAshwinaRajan and ShriramSwaminathan	72
Performance of Preprocessing-Aided Relay-Assisted Uplink Communication ShruthiRavichandran, PrabagaraneNagaradjane, Selvam PD, SriramRavichandran and NithinSrinivasan	77
Fuzzy Logic Controller for Autonomous Navigation TamilarasiMuthu, Thierry Gloude R, SivashankarSwaminathan and Satish Kumar L	81
Development of Multiple Architectural Designs using ADUAK C. Dhaya and G. Zayaraz	93
Multi User MIMO Cooperation for Wireless Network: A Survey S.Muthukumar andV.Nagarajan	98
Performance Evaluation of Millimeter Wave and UWB Signals over Fiber Radio Networks U. Sampath Kumar, V. Saminadan and P. Williams	104
Cache Optimization on Hot-Point Proxy (HPProxy) Using Dual Cache Replacement Policy <i>Ponnusamy S P and Kathikeyan E</i>	108
A Novel Gesture Based Graphical Authentication Using Bounding Box and Corner Detection Algorithm <i>G.Niranjana andKunal Dawn</i>	114
Performance analysis in IEEE 802.16j Mobile Multi-hop Relay networks (MMR) P.Mangayarkarasi, K.Amsalakshmi and S.Jayashri	120
Video Enhancement using Tone Adjustment D.BakkiyaLakshmi,Kanchana and V. Nagarajan	124
Speech Recognition Based Wireless Automation of Home Loads with Fault Identification for Physically Challenged <i>A.K.Gnanasekar, P.Jayavelu andV.Nagarajan</i>	128
Analysis of various power allocation algorithms for wireless networks <i>P.Mangayarkarasi, M.Ramya andS.Jayashri</i>	133
Double L - Slot Microstrip Patch Antenna Array for WiMAX and WLAN R. JothiChitra, B. Ramesh Karthik and V. Nagarajan	137
Enhanced Gain of Double U- Slot Micro strip Patch Antenna Array for WiMAX Application <i>R. JothiChitra, A.Suganya and V. Nagarajan</i>	141