2013 International Conference on Intelligent Systems and Signal Processing

(ISSP 2013)

Vallabh Vidyanagar, Anand (Gujarat), India 1 – 2 March 2013



IEEE Catalog Number: CFP1343V-PRT **ISBN:**

978-1-4799-0316-0

2013 International Conference on Intelligent Systems and Signal Processing (ISSP)

Table of Contents

Sr. No.	Title Author	Page No.			
Trac	Track : 1 Intelligent Systems and Applications				
1	COMPARATIVE ANALYSIS OF HARDWARE CIRCUIT ARCHITECTURES FOR WALLACE TREE MULTIPLIER DHAVAL R GANDHI, NEHAL N SHAH	1			
2	A NOVEL METHODOLOGY FOR EXPLORING ENHANCEMENT AND DEPRESSION PHENOMENA IN MULTISENSORY LOCALIZATION: BIOLOGICALLY INSPIRED SOLUTION FROM SUPERIOR COLLICULUS KIRAN KUMAR RAVULAKOLLU, KEVIN BURN	7			
3	A ROM-LESS DIRECT DIGITAL FREQUENCY SYNTHESIZER BASED ON FIFTH-DEGREE BEZIER CURVE APPROXIMATION RAVINDER SINGH, KATHIKA ROY, B R KAPURIYA, C BHATTACHARYA	13			
4	OPTIMAL PLACEMENT OF PMUS USING DIFFERENTIAL EVOLUTION B. VEDIK, ASHWANI K CHANDEL	17			
5	UTILIZATION OF WEB SERVICES AS MULTI AGENTS IN HEALTHCARE SYSTEM MIJAL MISTRY, DIPTI SHAH, PRANAV PATHAK, ABU SARWAR ZAMANI	23			
6	STRUCTURAL AND BEHAVIORAL MODELING OF RESTFUL WEB SERVICE INTERFACE USING UML DIGVIJAYSINH M RATHOD, SATYAN M PARIKH, B V BUDDHADEV	28			
7	AN INTELLIGENT TECHNIQUE BASED ON CODE ALGORITHM FOR DETERMINATION OF OPTIMUM GAIN VALUES OF PID CONTROLLER IN AN AGC SYSTEM K CHANDRA SEKHAR, K VAISAKH	34			
8	DESIGN OF NEW SCHEDULING ALGORITHM LLF_DM AND ITS COMPARISON WITH EXISTING EDF, LLF, DM ALGORITHMS IN FOR PERIODIC TASKS VISHAL PRAJAPATI, APURVA SHAH, PREM BALANI	42			
9	INDIRECT METHOD TO MEASURE SOFTWARE QUALITY USING CK-OO SUITE SANDEEP SRIVASTAVA, RAM KUMAR	47			
10	SIGNIFICANCE OF STOP WORD ELIMINATION IN META SEARCH ENGINE BIRAJ PATEL, DIPTI SHAH	52			
Trac	k : 2 Signal and Image Processing: Applications				
1	ADAPTIVE FRACTAL INTRA-FRAME VIDEO CODING TECHNOQUE USING PARALLAL GPU ENVIRONMENT M V KULKARNI, DR. D B KULKARNI	56			
2	IMPROVED HISTOGRAM BIN SHIFTING BASED REVERSIBLE WATERMARKING PASUNURI NAGARJU, RUCHIRA NASKAR, RAJAT SUBHRA CHAKRABORTY	62			

2	AN ADAPTIVE GRAY-SCALE IMAGE WATERMARKING SCHEME USING SMOOTH AND	6
3	EDGE AREAS OF AN IMAGE NAGRAJ V DHARWADKAR, B B AMBERKER	66
	A VIDEO DIRECTIONAL WEIGHETED MEDIAN FILTER WITH ADAPTIVE THRESHOLD	
4	AND COLOR CORRECTION	7
-	BHUPENDAR, RAJOO PANDEY	
5	WAVELET BASED IMAGE FUSION TECHNIQUES	7
	MIRAJKAR PRADNYA P., RUIKAR SACHIN D.	
	AUTOMATED PITCH BASED GENDER RECOGNIZATION USING AN ADAPTIVE	
5	NEURO-FUZZY INFERENCE SYSTEM	82
	SACHIN LAKRA, JUHI SINGH, ARUNKUMAR SINGH	
7	REAL TIME EDGE DETECTED ADVANCED IMAGE ACQUISITION SYSTEM USING RGB ANALYSIS	8
/	R DUTTA, K MITRA, S MUKHERJEE, P SHARMA	
	ADAPTATION OF HEADING ANGLE FOR CONTINUOUS VISIBLITY OF TRACKS IN	
8	GEOGRAPHICAL TRACK FOLLOWING APPLICATIONS	9
	VISHWANATH K REDDY, GOVIND R KADAMBI, S R SHANKAPAL	
9	IMAGE STEGANOGRAPHY USING DECRETE FRACTIONAL FOURIER TRANSFORM	9
9	ASHISH SONI, JITENDRA JAIN, RAKESH ROSHAN	9
	PERFORMANCE EVALUATION AND COMPARISION OF MODIFIED DENOISING	
10	METHOD AND LOCAL ADAPTIVE WEVELET IMAGE DENOISING METHOD	1(
	MS. JIGNASA M PARMAR, MS. S A PATIL	
11	A SIMPLE AND NOVEL ADAPTIVE BINARIZATION APPROACH FOR HANDWRITTEN	10
11	DOCUMENTS SUBHASH PANWAR, NEETA NAIN	
	DIGITAL WATERMARKING WITH COPYRIGHT AUTHENTICATION FOR IMAGE	
12	COMMUNICATION	11
	KETA RAVAL, SAMEENA ZAFAR	
	A REVERSIBLE DATA EMBEDDING SCHEME FOR MPEG4 VIDEO USING HVS	
13	CHARECTERISTICS	11
	SAGAR GUJJUNOORI, B B AMBERKER	
	MOVING OBJECT DETECTION FROM IMAGES DISTORTED BY ATMOSPHERIC	1.0
14	TURBULANCE AJINKYA S DESHMUKH, SWARUP S MEDASANI, G R REDDY	12
15	PERSON UNIQUE IDENTIFICATION BASED ON EAR'S BIOMETRIC FEATURES TRUPTI S INDI, D RAUT	12
	DISTRIBUTED BEAM FOREMINIG USING SEMI BLIND RETRACEMENT TECHNIQUE	
16	FOR RANDOMLY DISTRIBUTED SENSORS	13
-	<u>G VAIKUNDAM, DR. G F SUDHA</u>	
17	VOCAL FOLD PATHOLOGY ASSESMENT USING PCA AND LDA	14
1/	JENNIFER C SALDANHA, ANANTHAKRISHNA T, ROHAN PINTO	
	AN ADAPTIVE NOVEL FEATURE BASED APPROACH FOR AUTOMATIC VIDEO SHOT	
18	BOUNDARY DETECTION	14
	VIRAL B THAKAR, SARMAN K HADIA	
19	HIDING SECRET IMAGE IN VIDEO VANDANA THAKUR, MONJUL SAIKIA	15
	COMPARATIVE ANALYSIS USING FAST DISCRETE CURVELET TRANSFORM VIA WRAPPING DISCRETE CONTOURLET TRANSFORM FOR FEATURE EXTRACTION AND	
20	RECOGNITION	15
	<u>N G CHITALIYA, A I TRIVEDI</u>	
	INVESTIGATIONS ON INSTATENEOUS FREQUENCY VARIATIONS OF RR TIME SERIES	
21	IN INTRINSIC MODE FUNCTIONS OF CONGENSTIVE HEART FAILURE SUBJECTS	16
	PRAVEEN GUPTA, K K SHARMA, S D JOSHI, AMITABH DUBE	

22	SIGNATURE MATCHING WITH AUTOMATED CHAQUE SYSTEM KISHOR T MANE, VANDANA G PUJARI	16
	APPLICATIONS OF MFCC AND VECTOR QUANTIZATION IN SPEAKER	
23	RECOGNIZATION ARNAV GUPTA, HARSHIT GUPTA	170
	OPTIMIZING BOUNDARY MAPS FOR IMAGE SEGMENTATION	
24	HASNAIN VOHRA, HETAL PATEL	17
25	A NOVEL APPROACH FOR FACE DETECTION USING ARTIFICIAL NEURAL NETWORK MD. IQBAL QURAISHI, GAUTAM DAS, ARINDAM DAS, POULAMI DEY, AMARA TASNEEM	17
26	A NOVEL HYBRID APPROACH TO HISTORICAL DEGRADED DOCUMENTS MD. IQBAL QURAISHI, MALLIKA DE, KRISHNA GOPAL DHAL, SAHEB MONDAL, GAUTAM DAS	18
27	AN OCR FOR SEPERATION AND IDENTIFICATION OF MIXED ENGLISH-GUJARATI DIGITS USING KNN CLASSIFIER SHAILESH A CHAUDHARI, RAVI M GULATI	19
28	LANGUAGE IDENTIFICATION SYSTEM USING MFCC AND PROSODIC FEATURES UTPAL BHATTACHARJEE, KISHORD SARMAH	19
29	RANGE IMAGE SUPER-RESOLUTION VIA RECONSTRUCTION OF SPARSE RANGE DATA ARNAV V BHAVSAR	19
30	IMPLEMENTATION AND PERFORMANCE ANALYSIS OF DCT-DWD-SVP BASED WATERMARKING ALGORITHMS FOR COLOR IMAGES NIDHI DIVECHA, DR. N N JANI	20
31	INNOVATIVE ALGORITHMS FOR VISION DEFECT IDENTIFICATION SYSTEM PROF. VISHAL DAHIYA, MR. JEEGAR TRIVEDI, PROF. PRITI SRINIVAS SAJJA	20
32	SIGN LANGUAGE RECONGIZATION USING COLOR MEANS OF GRADIENT SLOPE MAGNITUDE EDGE IMAGES SUDEEP D THEPADE, ARATI NARKHEDE, PRITI KELVEKAR, GANDHALI KULKARNI, SEEMA TATHE	21
33	A SYSTEM FOR NAIL COLOUR ANALYSIS IN HEALTHCARE HARDIK PANDIT, DR. D M SHAH	22
Tra	ck : 3 Communication, Embedded and Automated Systems	
	AN ADVANCED APPROACH FOR IMPLEMENTATION OF REAL TIME SCHEDULING	
1	ALGORITHM FOR EFFICIENT MASS PRODUCTION MR. VISHAL S VORA, DR. AJAY K SOMKUWAR	22
2	CARRIER INTERFERENCE RATIO ANALYSIS OF EFFICIENT INTER CARRIER INTERFERENCE CANCELLATION SCHEME FOR OFDM SYSTEM RAGHVENDRA SHARMA, NAVEEN GUPTA, ANUJ KANCHAN	22
3	REDUCTION OF PEAK TO AVERAGE POWER RATIO IN OFDM TECHNIQUE BY USING CYCLIC CODES RAKESH ROSHAN, JITENDRA JAIN, ASHISH SONI	23
4	STUDY AND DESIGN NARROW BAND PHASE SHIFT BEAMFORMER KHYATI R.ZALAWADIA, TWINKLE V DOSHI, DR. U D DALAL	23
5	WIDEBAND AND VHF SELF COMPLEMENTRY ANTENNA PROF. MANILAL D AMIPARA, MS. HETAL PATHAK	24
6	OPTIMAL PATH SELECTION IN SHORT RANGE WIRELESS COMMUNICATION KAMANI KRUNAL C, KATHIRIYA DHAVAL R, GHODASARA YOGESH R	24
	VALIDATION OF STOCHASTIC PROPERTIES OF HIGH RESOLUTION CLUTTER DATA FROM IPIX RADAR DATA	25
7	SUBRATO K MANDAL, C BHATTACHARYA	

9	RESEARCH ON POWER OPTIMIZATION IN PHYSICAL AND MAC LAYER OF WIRELESS SENSOR NETWORKS - A SURVEY	262
	K. LAKSHMISUDHA, DR. C ARUN	20
10	MEASUREMENT OF RELIABILITY AND AVAILABILITY OF SATELLITE COMMUNICATION LINKS: PROGRESS AND CHALLENGES AJEET SINGH VERMA, A K JAISWAL, MUKESH KUMAR, GAURAV NIGAM, S K SRIVASTAVA	26
11	ADPLL DESIGN AND IMPLEMENTATION ON FPGA KUSUM LATA, MANOJ KUMAR	27
12	SUBCARRIER AND POWER ALLOCATION WITH PROPORTIONAL FAIRNESS ALGORITHM FOR LTE SYSTEM KRUNAL N PATEL, HARDIP K SHAH	27
13	GROWTH METHODOLOGY FOR NANOWIRES NAITIK KAPADIA, RINKU SOLANKI	28
4	5G TECHNOLOGY OF MOBILE COMMUNICATION:A SURVEY ASVIN GOHIL, HARDIK MODI, SHOBHIT K PATEL	28
5	FIR FILTER DESIGN APPROACH FOR REDUCED HARDWARE WITH ORDER OPTIMIZATION AND COEFFICIENT QUANTIZATION DHRUV AGARWAL, SRINIVASA REDDY K, S K SAHOO	29
6	RFID BASED NAVIGATION SYSTEM FOR UNMANNED MATERIAL HANDLING VEHICLES USING FPGA P. DINESH, P. KISHORE, VIVEKANANDAN B, S. MOORTHI	29
17	CARRIER FREQUENCY OFFSET ESTIMATION & COMPENSATION IN AMC OFDM V U PATEL, HARDEEP K SHAH, HIMANSHU B SONI, K S DASGUPTA	30
18	MEMORY ACCESS STAGE REMOVAL TECHNIQUE FOR DYNAMIC POWER REDUCTION IN EMBEDDED CPUS KIRITKUMAR BHATT, PROF. A I TRIVEDI	30
Fra	ck : 4 Networks and Security	
1	PRIORITY BASED DYNAMIC RESOURCE ALLOCATION IN CLOUD COMPUTING WITH MODIFIED WAITING QUEUE CHANDRASHEKHAR S. PAWAR, RAJNIKANT B. WAGH	31
2	CREATION OF SECURE CLOUD ENVIRONMENT USING RC6 NARENDRA CHANDEL, SANJAY MISHRA, NEETESH GUPTA, AMIT SINHAL	31
;	VIRTUAL OFFENSE IN MAHARASHTRA (INDIA): LEGEND AND TRUTH? D. S. JADHAV, V D PARODE, Y C DIGE, DR. S K PATIL	31
,		
	ENHANCING SECURITY FEATURES & PERFORMANCE OF AODV PROTOCOL UNDER ATTACK FOR MANET SUNIL J. SONI, SUKETU D. NAYAK	32
1	ATTACK FOR MANET	
5	ATTACK FOR MANET SUNIL J. SONI, SUKETU D. NAYAK SECURITY ATTACKS IN WIRELESS SENSOR NETWORKS: A SURVEY	32
5	ATTACK FOR MANET SUNIL J. SONI, SUKETU D. NAYAK SECURITY ATTACKS IN WIRELESS SENSOR NETWORKS: A SURVEY MANISH M PATEL, DR. AKSHAI AGGARWAL RELEVANT HEX PATTERNS FOR MALCODE DETECTION	32
4 5 6 7 8	ATTACK FOR MANET SUNIL J. SONI, SUKETU D. NAYAK SECURITY ATTACKS IN WIRELESS SENSOR NETWORKS: A SURVEY MANISH M PATEL, DR. AKSHAI AGGARWAL RELEVANT HEX PATTERNS FOR MALCODE DETECTION SMITA NAVAL, VIJAY LAXMI, YOGESH MEENA, VINOD P. HIGH PERFORMANCE HARDWARE IMPLEMENTATION OF AES USING MINIMAL RESOURCES	32 32 33 33 34

Track : 5 Data Mining, Soft Computing, Pattern Recognition

1	DYNAMIC SECURE CLOUD CREATION FOR FREQUENT PATTERN MINING AND ASSOCIATION NARENDRA CHANDEL , SANJAY MISHRA, NEETESH GUPTA, ARUN KUMAR SHUKLA	356
2	COMPARING THE APPLICATION OF CLASSIFICATION AND ASSOCIATION RULE MINING TECHNIQUES OF DATA MINING IN AN INDIAN UNIVERSITY TO UNCOVER HIDDEN PATTERNS SOHIL D PANDYA, DR. PARESH V VIRPARIA	361
3	ENSEMBLE SYSTEMS AND INCREMENTAL LEARNING ANITA J PATEL, JOY S PATEL	365
4	TRAFFIC SIGN REPRESENTATION USING SPARSE-REPRESENTATIONS MARUTHI CHANDRASEKHAR BH, SESHU BABU V, SWARUP S MEDASANI	369
5	A NOVEL APPROACH FOR AUTOMATIC NUMBER PLATE RECOGNITION SAHIL SHAIKH, BORNIKA LAHIRI, GOPI BHATT, NIRAV RAJA	375
6	ONTOLOGIES: NEED, USAGE AND ATTAINMENT OF HEALTH CARE SYSTEM MIJAL MISTRY, DR. DIPTI SHAH, PRANAV PATHAK, ABU SARWAR ZAMANI	381
7	AUTOMATED PAGINATION AND LAYOUT ANALYSIS OF HANDWRITTEN NOTES DINESH MANDALAPU, SRIGANESH MADHVANATH, BODLA RAKESH BABU, HARITHA BELLAM	387
8	FUZZY CLUSTERING WITH GAUSSIAN-TYPE MEMBERSHIP FUNCTION CH. RAJA RAMESH, K RAGHAVA RAO, G JENA, C V SASTRY	393
9	DOMAIN ONTOLOGY BASED SEMANTIC SEARCH FOR EFFICIENT INFORMATION RETRIEVAL THROUGH AUTOMATIC QUERY EXPANSION RASHMI CHAUHAN, RAYAN GOUDAR, ROBIN SHARMA, ATUL CHAUHAN	397
10	MODELING PERFORMANCE APPRAISAL USING SOFT COMPUTING TECHNIQUES: DESIGNING NEURO-FUZZY APPLICATION NISHA MACWAN, DR. PRITI SRINIVAS SAJJA	403
11	ENHANCING THE RELEVANCE OF INFORMATION RETRIVAL BY QUERYING THE DATABASE IN NATURAL FORM PROF. AMISHA SHINGALA, DR. PARESH VIRPARIA	408