

CONTENTS

Preface

Organizing Committee

Session 1 Computer and Automation Engineering

E0014	EVALUATION OF PROCESSORS FOR HIGH PERFORMANCE COMPUTING EMBEDDED SYSTEMS SANAM SHAHLA RIZVI AND TAE-SUN CHUNG.....	1
E0016	STRUCTURAL DAMAGE DETECTION BY INTEGRATING NEURAL NETWORKS AND VIBRATION MODAL ANALYSIS LIN NIU AND LIAOYUAN YE.....	5
E0017	VIRTUALIZATION IN GRID COMPUTING THROUGH EVENT BASED ARCHITECTURE JOBY JOSEPH, C. JOTHI VENKATESWARAN AND A. CLEMENT KING.....	11
E0018	LOW POWER AND LOW AREA ANALOG MULTIPLIER USING MIFGMOS K.DURAISAMY AND U.RAGAVENDRAN.....	19
E0021	PERFORMANCE ANALYSIS OF STATISTICAL RESAMPLING BASED CELL SEARCH ALGORITHM FOR 3GPP LTE G. JAYAMOHAN AND I. AROKIASAMY.....	27
E0026	INTERACTIVE ENGLISH NATURAL LANGUAGE INTERFACE TO GENERATE SQL QUERY SEYED ASADOLLAH ABDIESFANDANI.....	37
E0027	SOCIAL NETWORK SECURITY USING ANOMALY DETECTION MOHAMMAD ARSHI SALOOT AND DURGA S.BHAVANI.....	43
E0028	ACCURATE DETECTION OF WELD DEFECTS USING CHIRPLET TRANSFORM SUDHANYA CHATTERJEE, RIJU CHATTERJEE, KAMAL PAL, SRIKANTA PAL AND SURJYA K. PAL.....	49
E0030	PERFORMANCE ANALYSIS OF DC-DC BOOST CONVERTER USING INTELLIGENT CONTROLLER S.SENTHILKUMAR, P.SURESH AND CT.VIJAY NAGARAJ.....	55
E0031	USING GENETIC ALGORITHM TO CREATE AN IDENTIKIT MILAN KOVÁČ AND PETER SCHREIBER.....	65

Session 2 Computer and Automation Engineering

E0032	EVALUATION OF DESIGNED MANUFACTURING SYSTEM BASED ON SIMULATION AND LEAN METRICS PAVEL VAŽAN, DOMINIKA JUROVATÁ, VLADIMÍR LUPTÁK AND MICHAL ŠKAMLA.....	71
E0033	A REVIEW OF MOST CURRENT FEATURE EXTRACTION METHODS FOR EEG SIGNAL PROCESSING M.J.SAFARI, AFSHAN KORDI, MAYSAM OLADAZIMI, FARID SHIMAN AND FATEMEH MOLAEI VANEGHI.....	77
E0034	A REVIEW FOR FEATURE EXTRACTION OF EMG SIGNAL PROCESSING MAYSAM OLADAZIMI, FATEMEH MOLAEI, M.J.SAFARI, HOUSHYAR ASADI AND SEYD HAMIDREZA AGHAY KABOLI.....	85
E0035	TREND ANALYSIS IN SATELLITE IMAGERY PRATISTHA MATHUR AND G. N. PUROHIT.....	95

E0042	IMPROVE THE BRIGHTNESS IMAGE SEGMENTATION BASED ON WAVELET TRANSFORM AND CONVERTER COLOR SPACE SSU-WEI CHEN, LUKE K. WANG AND JEN-HONG LAN	99
E0043	ANALYSIS AND EVALUATION ON STATISTICAL CHARACTERISTICS OF VANETS ZHANG LILI, LUO QIAOMEI, XIE HONGWEI AND QIU ZHAOYING.....	105
E0045	A GRANULARITY-ORIENTED USE CASE ANALYSIS METHOD ZHANG NA AND LUO YANJING	111
E0063	DYNAMIC ERP SYSTEM METRICS BOJAN JOVICIC AND DRAGAN DJURIC.....	117
E0065	SHAPE OPTIMIZATION IN INTERIOR PERMANENT MAGNET MOTORS ALI JABBARI	123
E0067	THE PREDICTION OF THE PARAMETER IN A NEW METHOD OF WORD SEGMENTATION HANSHI WANG, LIZHEN LIU, JIE LIU AND XIANYANG HUANG	129

Session 3 Computer and Automation Engineering

E0068	SYSTEMATIC GEOMETRIC ERROR MODELING AND COMPENSATION OF A FIVE-AXIS CNC MACHINE TOOL YU ZHAO, TIEMIN LI AND XIAOQIANG TANG.....	135
E0069	EFFECT OF SKEWING ON PULSATING TORQUE AND RADIAL FORCE MINIMIZATION IN BRUSHLESS PERMANENT MAGNET MOTORS ALI JABBARI	141
E0071	REAL TIME HUMAN DETECTION USING COVARIANCE MATRICES AS HUMAN DESCRIPTOR SMITA KAKADE AND NILESH UKE.....	147
E0073	PRESSURE DISTRIBUTION ANALYSIS OF HYDRODYNAMIC JOURNAL BEARING USING ARTIFICIAL NEURAL NETWORK. RAVINDRA R. NAVTHAR, N.V. HALEGOWDA AND SHANTANU DESHPANDE.....	153
E0074	FCM IMPLEMENTATION USING ARTIFICIAL BEE COLONY ALGORITHM (ABC) FOR SEGMENTATION OF MR BRAIN IMAGES PRAVIN Y KUMBHAR AND SHOBA KRISHNAN	161
E0077	FUZZY LOGIC BASED SMART AIR COMPRESSOR SEQUENCER SANDEEP KUMAR MISHR AND MAHESH PAI	167
E0078	THE ARCHITECTURE AND DESIGN OF JAVA-BASED WEB APPLICATION LI FENG AND WENHUA YANG	173
E0084	DENSITY-BASED CLUSTERING IN MOBILE DATABASES: COP ALGORITHM SUSHIL KULKARNI AND MUKUND SANGLIKAR.....	179
E0085	DATA CONSISTENCY IN THE CLOUD POOJA MANGHIRMALANI AND SUSHIL KULKARNI.....	185
E10003	A NOVEL BINARY SEARCH BASED METHOD TO FIND MINIMAL NUMBER OF CORES REQUIRED TO OBTAIN MINIMAL MAKESPAN, GIVEN MAKESPAN AND GIVEN UTILIZATION OF CORES FOR A DAG APPLICATION UMA B AND C R VENUGOPAL.....	193

E20001	GESTURE BASED COMPUTING—VIA GESTURE HUMANOID G S L K CHAND.....	199
--------	--	-----

Session 4 Computer and Automation Engineering

E20002	ENHANCED PASSWORD AUTHENTICATION THE DYNAMIC PASSWORD UNREVEALED VINAYAK ABROL AND SAURAV SUMAN.....	205
E20012	STUDY OF THE EFFECT OF MACHINING PARAMETERS ON MATERIAL REMOVAL RATE AND ELECTRODE WEAR DURING ELECTRIC DISCHARGE MACHINING OF MILD STEEL ARINDAM MAJUMDER.....	213
E20014	GAIT RECOGNITION USING HISTOGRAM JYOTI BHARTI, M.K.GUPTA AND JASVINDER PAL SINGH.....	221
E20016	TRANSIENT MULTIEXPONENTIAL DATA SELECTION USING CRAMER RAO LOWER BOUND ABDUSSAMAD U. JIBIA AND MOMOH-JIMOH E. SALAMI	227
E30001	DATA HIDING USING CHAOTIC FUNCTION AND PARTITIONED IMAGE HISTOGRAM R. HAGHNAZARKOOCHAKSARAEI, V. AGHAZARIAN, A. HAROONABADI AND A.HEDAYATI.....	233
E30002	A CLUSTER BASED APPROACH FOR FUZZY GENETIC DATA MINING SHAIKH NIKHAT FATMA AND MADHU NASHIPUDIMATH.....	241
E30023	AN INGENUOUS APPROACH TO THE DESIGN OF UNMANNED GROUND VEHICULAR SYSTEMS S SETHU SELVI, PAVAN KUMAR P N AND AKSHAY VISHWAS JOSHI.....	249
E30037	OPTIMUM UTILIZATION OF SELF LEARNING ALGORITHM IN ARTIFICIAL NEURAL NETWORK RAHUL GUPTA AND NIDHI GARG.....	255
E30039	CLASSIFICATION USING NEGATIVE SELECTION ALGORITHM: APPLICATION TO MHC CLASS II BINDERS / NON-BINDERS USED IN PEPTIDE BASED VACCINE DESIGNING. S S SOAM, FEROUZ KHAN, B BHASKER AND B N MISHRA	261
E30043	OPTIMIZATION OF AN IRREGULAR 2D PACKING PROBLEM BY A GENETIC-BASED HEURISTIC ALGORITHM MOHAMMAD MOTAGHEDI, ABOLFAZL T. HAGHIGHAT AND YASSER PARACH	267
E30044	DYNAMIC ONE-DIMENSIONAL CUTTING STOCK OPTIMIZATION AND THE GENERATION OF LEFTOVERS MIHAEL CESAR AND MIRO GRADIŠAR.....	275

Session 5 Communication and Electronics Information

H003	PART OF SPEECH TAGGING P.S. PATHEJA, AKHILESH A. WAOO AND RICHA GARG	281
H015	OPTIMAL HANDOFF DECISION METHOD FOR MULTI-MODE TERMINALS IN NEXT GENERATION WIRELESS NETWORKS K. RADHIKA AND A. VENUGOPAL REDDY.....	287

H017	AN EFFICIENT APPROACH TOWARDS ACCURATE AND AUTHENTIC PRESERVATION OF FILE TIME STAMPS SUVROJIT DAS, MOHIT KUMAR AND D. GHOSH	293
H022	A NOVEL SECURE OBJECT POOL BASED RMS(SOPRMS) TECHNIQUE AND IMPLEMENTATION IN WTK ENVIRONMENT NANDIKA SOOD AND AMIT SINHAL	299
H025	BRAIN STIMULATION RESULTING IN RESONANCE W.R.T. FRISS-TRANSMISSION PHENOMENON =>MORPHIC RESONANCE PARTHASARATHY P.IYER AND VIJAYLAXMI S.BHAT	305
H027	RS DYNAMIC ENCRYPTION (A DYNAMIC ENCRYPTION TECHNIQUE) RANBIR SINHA	311
H028	DESIGN AND IMPLEMENTATION OF EMBEDDING WEB SERVER FOR REAL TIME DATA ACQUISITION AND LOGGING SYSTEM MUKESH KUMAR AND MANSAV JOSHI	317
H031	A HEURISTIC APPROACH ON CLOSE-DEGREE CONCEPT LATTICE FOR BETTER ATTRIBUTE REDUCTION RAVINDRA K.GUPTA, SAPNA SAHU, SHAILENDRA SINGH AND ASHUTOSH DUBEY	321
H042	BEAMFORMING FOR MIMO RELAYING SYSTEMS BASED ON CHANNEL MEAN FEEDBACK YI LIU, RUIQIN WU, DANPING LI AND HAILIN ZHANG	327
H044	MULTI-ANTENNA SPECTRUM DETECTION BASED ON CYCLOSTATIONARY SIGNATURES IN COGNITIVE SYSTEM CHEN XIN-YONG, YANG RUI-JUAN AND LI XIAO-BAI	333

Session 6 Communication and Electronics Information

H046	RESEARCH ON MILITARY SCENARIO EDITOR AND PLAN VIEW DISPLAY BASED ON SIMULATION MODELS LI NI AND TANG LIYONG	339
H048	PERFORMANCE ANALYSIS OF MIMO-STBC SYSTEM PRANITA SONI AND SHUBHANGI CHAUDHARY	347
H051	SAMPLE INDEXING MODULATION ROHIT KUMAR SINHA	353
H052	DESIGN OF LOW POWER 1X3 ROUTER LAKSHMI NARAYANA THALLURI AND S R SASTRY KALAVAKOLANU	359
H057	PRIORITY QUEUING AND SCHEDULING ALGORITHMS ANALYSIS USING OPNET MODELER RAKESH KUMAR PRADHAN AND MARK A GREGORY	365
H064	MINIATURIZATION AND OPTIMIZATION OF POWER CONSUMPTION IN CNTFET CIRCUITS FOR USE IN THE MANUFACTURE OF ARTIFICIAL NEURAL BRAIN CORTEX VAHID ASHRAFI BADELBU AND ALIREZA.KASHANINIA	371
H069	PHASE ESTIMATION BASED CHANNEL EQUALIZATION TECHNIQUE FOR 64-QAM COMMUNICATION SABITA NAHATA, YOGENDRA KUMAR, C. D. ANIL KUMAR AND S. S. PATHAK	377
H10013	DESIGN OF AN ULTRA-WIDEBAND 0.35UM CMOS AMPLIFIER ZHANG LI NA AND HE YUAN	383

H10016	EFFECTS OF METALLIC PLATE AND OBJECTS ON PERFORMANCE OF INVERTED F ANTENNA FOR ISM BAND APPLICATION GOURAV CHATTERJEE, BIBHU PRASAD NAYAK AND PRAKASH B N.....	389
H10021	A VBR SLOT ALLOCATION ALGORITHM FOR WIRELESS ATM PANKAJ P. TASGAONKAR AND S.J. BHOSALE.....	397

Session 7 Communication and Electronics Information

H10030	PERFORMANCE OF MIMO SPACE-TIME BLOCK CODES IN WIRELESS COMMUNICATION SYSTEM NAZIA PARVEEN AND D.S. VENKATESWARLU.....	403
H10045	DESIGN AND IMPLEMENTATION OF FLOATING POINT DIVIDER ON FPGA B PRATHYUSHA MANI AND V SRINIVASA RAO.....	409
H10058	IMAGE SHARING BY USING XOR OPERATION YOUNG-CHANG HOU AND YEN-CHUN LU.....	415
H10059	VIDEO SEGMENTATION AND VIDEO INDEXING FOR E-LEARNING MANOJ.D. SHELAR AND NILESH. J. UKE.....	421
H10061	REQUIREMENT DEFECT IDENTIFICATION AND THEIR MITIGATION THROUGH SEVERITY AND PRIORITY SANDEEP KUMAR NAYAK, RAEES AHMAD KHAN AND MD. RIZWAN BEG.....	427
H10066	OPTICAL COMMUNICATION BASED CONTROL USING COUNTER SOURCE CODES & TDM VINAYAK ABROL.....	433
H10069	PATCH ANTENNA ON METAMATERIAL SUBSTRATE ARTHI R.....	441