2012 International Conference on Computer Systems and Industrial Informatics

(ICCSII 2012)

Sharjah, United Arab Emirates 18-20 December 2012



IEEE Catalog Number: CFP1245U-PRT **ISBN:**

978-1-4673-5155-3

TABLE OF CONTENTS

PAPER	TITLE	AUTHOR
1	VISUAL SINGLE CLUSTER OF MULTIDIMENSIONAL DATA	KHADIDJA AMEUR
:	AN EFFICIENT SWITCH FOR FAT TREE NETWORK-ON-CHIP INTERCONNECTION ARCHITECTURE	AZEDDIEN SLLAME, ASMA ALASAR
36	IMPACT OF CASCADED OPTICAL FILTERS ON 100 GB/S PM-QPSK AND 400 GB/S PM- 16QAM COHERENT COMMUNICATION	RAMI AL-DALKY, ALY ELREFAIE, TAHA LANDOLSI, MOHAMED HASSAN
3:	PORTABLE WEB BROWSER FORENSICS	ANDREW MARRINGTON, IBRAHIM BAGGILI, TALAL AL ISMAIL, ALI AL KAF
46	AISLE-LEVEL SCANNING FOR PERVASIVE RFID-BASED SHOPPING APPLICATIONS	AMINE KARMOUCHE, YASSINE SALIH ALJ
4:	A SIMPLE JOINT ROUTING AND SCHEDULING ALGORITHM FOR A MULTI- HOP WIRELESS NETWORK	MD. ANWAR HUSSAIN
55	USER REPRESENTATION IN A SOCIAL BOOKMARKING WEBSITES	MERYEM UZUN-PER
5;	A SYSTOLIC-BASED ARCHITECTURE FOR A NOVEL REDUCED-COMPLEXITY GPS RECEIVER	YASSINE SALIH ALJ, AL AKHAWAYN UNIVERSITY; FRANCOIS GAGNON, RENE LANDRY
67	PERFORMANCE EVALUATION OF OPTICALLY PRE-AMPLIFIED 16-ARY PPM SYSTEMS WITH FABRY-PEROT FILTERS	SANAA HAMID, ALY ELREFAIE, MOHAMED HASSAN, TAHA LANDOLSI
6;	CONCURRENT MONITORING ENVIRONMENT FOR OBTAINING IPFIX FLOW AND SIGNATURE BASED IDS ALERT	TEEMU ALAPAHOLUOMA, JORMA YLINEN
77	ON UNDERSTANDING SOFTWARE QUALITY EVOLUTION FROM AN EXTERNAL PERSPECTIVE: A CASE STUDY	MOURAD BADRI, NICHOLAS DROUIN, FADEL TOURAE
83	A METHOD FOR AUTOMATIC TUNING THE MEMRISTANCE OF MEMRISTIVE DEVICES	FARSHAD MERRIKH-BAYAT, FARNOOD MERRIKH-BAYAT, NAFISE MIREBRAHIMI

89	LIGHTPATH REROUTING SCHEME FOR DYNAMIC TRAFFIC IN WDM ALL-OPTICAL NETWORKS	NAAMA AMDOUNI
95	EYE TRACKING ANALYSIS OF BROWSER SECURITY INDICATORS	ALI DARWISH, EMAD BATAINEH
9;	DESIGN PATTERN SELECTION: A SOLUTION STRATEGY METHOD	EIMAN M. SAHLY, OMAR M. SALLABI
:7	A COMPARATIVE STUDY ON DIFFERENT MODULI SETS IN RESIDUE NUMBER SYSTEM	DINA YOUNES, PAVEL STEFFAN
;3	CAN ANDROID BE USED FOR REAL-TIME PURPOSES?	HASAN FAYYAD-KAZAN, LUC PERNEEL, MARTIN TIMMERMAN
;9	AN INFOSTATION-BASED CONTEXT- AWARE ON-STREET PARKING SYSTEM	ABDULMALIK ALHAMMAD, FRANCOIS SIEWE, ALI HILAL AL- BAYATTI
325	VERIFYING WEB SERVICES COMPOSITIONS USING UPPAAL	NASEEM IBRAHIM, ISMAIL AL ANI
32:	MONTE CARLO-BASED BI-DIRECTIONAL PEDESTRIAN COUNTING WITH COMPOUND-EYE SENSOR	SHUTO FUJII, YOSHIAKI TANIGUCHI, GO HASEGAWA, HIROTAKA NAKANO
336	A USE CASE MAP AS A VISUAL APPROACH TO REDUCE THE DEGREE OF INCONSISTENCY	MOHAMED HAGAL, FATMA H. FAZZANI
33:	ARTIFICIAL NEURAL NETWORK-BASED ELECTRICITY PRICE FORECASTING FOR SMART GRID DEPLOYMENT	BIJAY NEUPANE, KASUN S. PERERA, ZEYAR AUNG, WEI LEE WOON
346	NON-CONTIGUOUS PROCESSOR ALLOCATION IN THE MESH-CONNECTED MUTICOMPUTERS USING COMPACTION	SAAD BANI-MOHAMMAD, ISMAIL ABABNEH, MOHAMMAD YASSEN
354	ABSTRACTION APPROACH FOR DEVELOPING AND DELIVERING CLOUD- BASED SERVICES	BINH MINH NGUYEN, VIET TRAN, LADISLAV HLUCHY
35:	ASSESSMENT METRICS FOR INTELLIGENCE LEVEL OF HUMAN- COMPUTER INTERFACE	AHMED EL ZARKA, TARIK OZKUL
367	DEVELOPMENT OF A NETWORKED CONTROL SYSTEM PLATFORM FOR UNMANNED AERIAL VEHICLES	YACEL TAAY, AHMET SERTBA
373	PERCEPTION BASED ADAPTIVE HAPTIC COMMUNICATION PROTOCOL (PAHCP)	QASSIM NASIR, ENAS KHALIL
379	LOW COMPLEXITY HARDWARE ARCHITECTURAL DESIGN FOR ADAPTIVE DECISION FEEDBACK EQUALIZER USING DISTRIBUTED ARITHMETIC	S. R. AHAMED, SURYA PRAKASH MATCHA
384	EFFICIENT CODE-BASED RELAY ALGORITHM FOR RELIABLE COGNITIVE RADIO SYSTEMS	AMIN MOHAJER, MALEK- ASHTAR
38:	A SURVEY OF PHISHING VICTIMS	ALI DARWISH, AHMED EL ZARKA, FADI ALOUL

395	AN IN-PIPE ROBOTIC PLATFORM FOR INSPECTION AND MAINTENANCE	F. SIBAI, SAUDI ARAMCO; AMER SAYEGH
39;	DEVELOPING CONTEXT-DEPENDENT SERVICE-ORIENTED APPLICATIONS	NASEEM IBRAHIM
3:7	A HYBRID HEURISTICS-STATISTICAL PEER-TO-PEER TRAFFIC CLASSIFIER	MUSSAB M HASSAN, MUHAMMAD NADZIR MARSONO
3;3	A NEW TRACEABLE SOFTWARE REQUIREMENTS SPECIFICATIONS BASED ON IEEE 830	MASHAEL ALDAYEL, AZEDDINE CHIKH
3;9	JAVA CRYPTOGRAPHICAL APPLICATION BASED ON ARABIC POETRY	ABDELMALEK AZIZI
424	A NOVEL LIGHTPATH REROUTING ALGORITHM FOR DYNAMIC TRAFFIC WITH TRANSMISSION IMPAIRMENTS	NAAMA AMDOUNI
42:	COMPUTERS AND E-HEALTH: ROLES AND NEW APPLICATIONS	GHADA AL-MASHAQBEH
436	INTELLIGENT EDGE DETECTOR BASED ON MULTIPLE EDGE MAPS	MOHAMMED QASIM, WEI LEE WOON, ZEYAR AUNG, VINOD KHADKIKAR
442	HIGH-SPEED KATAN CIPHERS ON-A-CHIP	FATMA QATAN, ISSAM DAMAJ
448	K-NEAREST NEIGHBOR CLASSIFICATION FOR GLASS IDENTIFICATION PROBLEM	MASHAEL ALDAYEL
453	AN EXPERIMENTAL ANALYSIS OF ENERGY CONSUMPTION IN MILLING STRATEGIES	SALMAN PERVAIZ, IBRAHIM DEIAB, AMIR RASHID, MIHAI NICOLESCU
459	A NOVEL SKIN DETECTION METHOD USING GENERALIZED DISCRIMINANT ANALYSIS	FAHIMEH SALIMI, HADI FARZIN, FARZAD EBRAHIMI
464	MINIMUM DELAY SWITCH FOR SYNCHRONOUS TDMA NETWORK	HIROAKI NISHIJIMA, TAKAHIRO YAKOH
46:	SMART GRID CONTROLLER FOR OPTIMIZING HVAC ENERGY CONSUMPTION	A. R. AL-ALI, NOOR A. TUBAIZ, AMRO AL-RADAIDEH, JUMANAH A. AL-DMOUR, LALITHA MURUGAN,
474	DESIGN AND DEVELOPMENT OF WIRELESS FOUNDATION FIELDBUS INDUSTRIAL NETWORKS	OSAMA AL-AQEL, TARIK OZKUL, TAHA LANDOLSI
482	EVALUATION OF INDOOR MOBILE ROBOT LOCALIZATION TECHNIQUES	F. SIBAI, HASSANE TRIGUI, PABLO CARRASCO, SAUDI ARAMCO; ANWAR AL-ODAIL
488	PATTERN CLASSIFICATION FOR ASSESSING THE QUALITY OF MPEG SURVEILLANCE VIDEO	TAMER SHANABLEH, FAISAL ISHITAQ
493	OUTAGE PERFORMANCE OF COGNITIVE RADIO WIRELESS NETWORK WITH SECONDARY RELAYING	FAHEEM KHAN, T. RATNARAJAH, ZHIGUO DING
498	ON THE EFFECT OF ASPECT-ORIENTED REFACTORING ON TESTABILITY OF CLASSES: A CASE STUDY	MOURAD BADRI, AYMEN KOUT, LINDA BADRI

4:5	RESPONSE TIME CONTROL FOR WEB SERVERS UNDER REALISTIC TRAFFIC PATTERNS	MOKHTAR ABOELAZE, MOHAMED GHAZY SHEHATA, NAVID MOHAGHEGH
4:;	WEB APPLICATION FOR REMOTE EXPERIMENTATION	FADI S. AYAD, IHAB ADLY, YOUSSRA EL-QATTAN, HANI A. GHALI
4; 6	AUTONOMOUS STRUCTURAL MONITORING USING FIBER BRAGG GRATING	REZA ADHAMI
4;:	AN INTEGRATED SIMULATION-DEA ALGORITHM FOR LAYOUT OPTIMIZATION	A. AZADEH, S. MOTEVALI HAGHIGHI, H. SAEDI
526	A CLIENT PRIVACY PRESERVING DISCOVERY SERVICE SCHEME	ZHIPENG WANG, HONG ZHU
532	A NOVEL SCHEME FOR VIRTUAL LASER KEYBOARD	ZEENAT ALKASSIM
537	REDUNDANT INSTANCES AND INCORRECT INSTANCES DETECTION	WANG XIAOYUN, YAO JIANPING
53;	BEACON BASED CONTROLLED ROUTING IN WIRELESS SENSOR NETWORKS	RAB NAWAZ