Proceedings of the 2011 3rd International Conference on Software Technology and Engineering

(ICSTE 2011)

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Kuala Lumpur, Malaysia



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PREFACE

Dear Distinguished Delegates and Guests,

The Organizing Committee warmly welcomes our distinguished delegates and guests to the 2011 3rd International Conference on Software Technology and Engineering (ICSTE 2011), and the workshop—2011 International Conference on Computer Design and Engineering (ICCDE 2011) and 2011 International Conference on Energy and Electrical Systems (ICEES 2011) held during August 12-14, 2011, Kuala Lumpur, Malaysia.

ICSTE 2011 is co-sponsored by University Putra Malaysia, Polytechnic University Puerto Rico, Chengdu Young Education & Consultancy, and IACSIT. If you have attended a conference sponsored by IACSIT before, you are aware that the conferences together report the results of research efforts in a broad range of Computer Science and Information Technology. These conferences are aimed at discussing with all of you the wide range of problems encountered in present and future high technologies. The ICSTE 2011 is organized to gather members of our international community scientists so that researchers from around the world can present their leading-edge work, expanding our community's knowledge and insight into the significant challenges currently being addressed in that research. The conference Program Committee is itself quite diverse and truly international, with membership from the Americas, Europe, Asia, Africa and Oceania.

This proceeding records the fully refereed papers presented at the conference. The main conference themes and tracks are Software Technology and Engineering. The main goal of these events is to provide international scientific forums for exchange of new ideas in a number of fields that interact in-depth through discussions with their peers from around the world. Both inward research; core areas of Software Technology and Engineering and outward research; multi-disciplinary, inter-disciplinary, and applications will be covered during these events.

The conference has solicited and gathered technical research submissions related to all aspects of major conference themes and tracks. All the submitted papers in the proceeding have been peer reviewed by the reviewers drawn from the scientific committee, external reviewers and editorial board depending on the subject matter of the paper. Reviewing and initial selection were undertaken electronically. After the rigorous peer-review process, the submitted papers were selected on the basis of originality, significance, and clarity for the purpose of the conference. The selected papers and additional late-breaking contributions to be presented as lectures will make an exciting technical program. The conference program is extremely rich, featuring high-impact presentations.

The high quality of the program – guaranteed by the presence of an unparalleled number of internationally recognized top experts – can be assessed when reading the contents of the program. The conference will therefore be a unique event, where attendees will be able to appreciate the latest results in their field of expertise, and to acquire additional knowledge in other fields. The program has been structured to favor interactions among attendees coming from many diverse horizons, scientifically, geographically, from academia and from industry. Included in this will to favor interactions are social events at prestigious sites.

We would like to thank the program chairs, organization staff, and the members of the program committees for their work. Thanks also go to the editors for their wonderful editorial service to this proceeding.

We are grateful to all those who have contributed to the success of ICSTE 2011. We hope that all participants and other interested readers benefit scientifically from the proceedings and also find it stimulating in the process. Finally, we would like to wish you success in your technical presentations and social networking.

We hope you have a unique, rewarding and enjoyable week at ICSTE 2011 in Kuala Lumpur, Malaysia.

With our warmest regards,

The Organizing Committees August 12-14, 2011 Kuala Lumpur, Malaysia

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CONTENTS

Preface

Organizing Committee

C •	1	Software		1	1	•	•
OCCION		Offword	LACHI	\mathbf{n}	and	Hnaina	ανιηα
OCSSIUII		DUILWAIC		1101021	anu	171121110	CHIHZ
	_						

T007	TTRUST IN A HYBRID RECOMMENDER SYSTEM
T012	TO-BE-RECORDED ANALYSIS INSIDE DERIVATIVE CODE COM- PILER
T013	ADOPTING DOMAIN KNOWLEDGE TO ENHANCE LEXICAL CHAIN FOR UNSUPERVISED WORD SENSE DISAMBIGUATION. 13 WEI JAN LEE. and EDWIN MIT
T015	WORD AND SPEAKER RECOGNITION SYSTEM ON MATLAB 19 TAN SHWU FEI and MOHAMMAD AWAN
T019	DHTCACHE: A NOVEL STRUCTURED P2P-BASED COOPERATIVE WEB CACHING SYSTEM
T024	INTEGRATED FEATURE EXTRACTION USING GABOR-FILTER AND RECURSIVE SUPPORT VECTOR MACHINE FOR FINGER-PRINT IDENTIFICATION AND VERIFICATION
T035	ENHANCED SECURITY OF WATERMARKING USING HASH FUNCTION
T036	A NEW CONCEPT FOR AIRPORT SECURITY USING STATIC BODY BIOMETRIC AND LEG ANGLE GAIT RECOGNITION TECHNIQUE
T037	SENSITIVE QUANTITATIVE PREDICTIONS OF MHC BINDING PEPTIDE FROM ENTAMOEBA HISTOLYTICA
T038	STRATEGIC ACADEMIC MANGMENT SYSTEM

Session 2 Software Technology and Engineering

T040	RECHAP PROTOTYPE: A TOOL FOR SIMPLIFYING REQUIREMENT CHANGE PROPAGATION TO SOFTWARE DESIGN
T043	RISK BASED ANALYSIS FOR DETENTION POND OVERFLOW AT WILAYAH PEMBANGUNAN
T044	RISK BASED ANALYSIS FOR CONCRETE CHANNEL AND GRASSED SWALE DESIGN AT LIMA KEDAI, JOHOR BAHRU 85 SUPIAH SHAMSUDIN, AZMI AB RAHMAN, MD AZIZI DAHLAN and MOHD AZIZI ZAKARIA
T045	NEW IMPROVED RUNGE-KUTTA METHOD WITH REDUCING NUMBER OF FUNCTION EVALUATIONS
T048	TOWARDS A COMPILER GENERATED ADJOINT MODEL OF FVCOM
T055	MULTI-CLUSTERING USERS IN TWITTER DATASET 107 ARASH HEIDARIAN
T059	JAVA APPLICATION FAULT TOLERANCE TOWARDS UNSAFE NATIVE CODE INVOCATION USING PROCESSBUILDER
T062	AUTOMATIC HUMAN AGE ESTIMATION BASED ON NEURAL NETWORKS AND THE MODIFIED FACE MODEL
T064	APPLICATION OF NATURAL NEIGHBOR INTERPOLATION IN DATA PROCESSING OF MAGNETIC SURVEY
T065	A COMPARATIVE EVALUATION OF STATE-OF-THE-ART APPROACHES IN THE DESIGN OF AN ADAPTIVE SOFTWARE SYSTEM
Session	3 Software Technology and Engineering
T066	MIPAE: A POLICY-RASED MIDDLEWARE FRAMEWORK TO CON-

NOR HAZILAWATI AWANG and WAN MOHD NASIR WAN KADIR

TROL NEGATIVE EFFECTS OF SOFTWARE EVOLUTION 143

Т070	SIGNALING OVERHEAD IN TIME-INVARIANT OFDM SYSTEMS WITH ADAPTIVE TECHNIQUES
T084	COMPRESSION OF BURSTY SIGNALS USING TIME ENCODING MODULATOR
T088	USING CLUSTERING TECHNIQUES GOES WITH GENETIC ALGORITHM TO IMPROVE SOFTWARE DEFECT PREDICTION 165 CHIA-HAO KUO, CHING-PAO CHANG, YU-SHIH LIN and CHIH-PING CHU
T089	MAPPING ANNOTATED SOFTWARE ARCHITECTURE DESCRIPTIONS TO A PETRI NET NOTATIONS FOR RELIABILITY EVALUATION
T090	SYSTEM REQUIREMENT ENGINEERING FOR STUDENT'S EMOTION BASED SYSTEM –FOCUSING ON TRACEABILITY TECHNIQUES TO SUPPORT VERIFICATION
T091	A SIMPLE ALGORITHM TO FIND THE PROPER SPANNING TREE IN METRO ETHERNET NETWORKS
T093	ANT COLONY OPTIMIZATION: A SURVEY AND A SYSTEM MODEL TO OPTIMIZE ORDERED THROUGHPUT
T095	X-CM: EXTENDING ENTITY-RELATIONSHIP CONCEPTUAL MODELING FOR XML DATABASES
T098	VARIABLES AFFECTING THE USAGE OF E-PORTFOLIOS BY PROJECT MANAGERS IN CONSTRUCTION INDUSTRY203 GHASEM OMIDVAR, FARHANG JARYANI, SOMAYE FATTAHI ZAFARGHANDI, SAMANEH SALEHI NASAB, SUHAIMI IBRAHIM and RUSNI DARUIS
T100	USER-CENTRIC PROCESS DESCRIPTIONS. 209 MICHAEL DEYNET
T101	MOBILEOBJECT: ADVANCED FEATURES
Session	4 Software Technology and Engineering
T102	MOBILEOBJECT: FUNDAMENTALS

T103	A NOVEL WEAPON DETECTION FRAMEWORK IN HIGH-ENERGY X-RAY DUAL-ENERGY IMAGES BASED ON SHAPE AND EDGE FEATURES
T105	DEBUGGING PROGRAMS WITH CONTRACT INFORMATION
T112	MODELING AND VERIFYING WEB COMPOSITION USING PI-CALCULUS SERVICES
T10016	THE DESIGN OF VIDEO TEACHING SYSTEM
T10017	A FACE TRACKING ALGORITHM COMBINED WITH FEATURE POINTS
T10018	PRELIMINARY RESEARCH ON PORT ENTERPRISE HUMAN RESOURCE SUPPLY CHAIN MODEL
T10022	RESEARCH ON MOTION ESTIMATION FOR H.264
T10025	THE APPLICATION OF AUTHORWARE IN COURSEWARE MAKING
T10027	AN ALGORITHM FOR DETERMINING THE OPTIMAL WAITING TIMES IN MACHINE SCHEDULING PROBLEM
T10028	A METHOD BASED ON GENETIC ALGORITHM TO GENERATE OPTIMAL TEST DATA FOR PROGRAM'S PATHS
Session :	5 Software Technology and Engineering
T20014	ABASIC FOR INTRUSION DETECTION SYSTEM
T20015	A REVIEW ON PREDICTION OVER PRESSURED ZONE IN HYDRO- CARBON WELL USING SEISMIC TRAVEL TIME THROUGH ARTIFI- CIAL INTELLIGENCE TECHNIQUE FOR PRE-DRILLING PLANING
T20022	HARAVINTHAN A., AYOB M.R., SALLEH S. and JAPPER-JAAFAR A. PERFORMANCE ANALYSIS OF ANONYMOUS AD HOGNETWORK
T20022	PERFORMANCE ANALYSIS OF ANONYMOUS AD HOC NETWORK WITH NON CO-OPERATIVE NODES

T30005	USABILITY EVALUATION OF MOBILE LEARNING TOOL (M-LT) FOR STRUCTURED PROGRAMMING
T30007	INHIBITING PYROLYSIS PROCESS FOR FIBER-REINFORCED COMPOSITES BY USING FLAME RETARDANTS ADDITIONS
T30008	IMPROVING SOFTWARE RELIABILITY BY APPLICATION OF SOFTWARE ENGINEERING APPROACH
T30010	COGNITIVE SCIENCE AS NATURAL COMPUTATIONAL META-PHOR
T30011	A SEMANTIC APPROACH TO ANSWER VIETNAMESE QUESTIONS IN OPENCOURSEWARE RETRIEVAL SYSTEM
T30014	A NEW HEURISTIC APPROACH FOR TRAINING DATA REDUCTION AND A GENETIC LEARNING METHOD FOR ACHEIVING COMPACT FUZZY RULE-BASED SYSTEMS
T30019	SOLUTIONS OF INTERVAL DIFFERENTIAL EQUATIONS UNDER GENERALIZED HUKUHARA DIFFERENCE
T30021	SECURITY FEATURES COMPARISON OF MASTER KEY AND IKM CRYPTOGRAPHIC KEY MANAGEMENT FOR RESEARCHERS AND DEVELOPERS
Session	6 Computer Design and Engineering
E004	AWARENESS FOR THE PROTECTION OF ENDANGERED SPECIES WITH AUGMENTED REALITY
E012	WIRELESS UNDERGROUND SENSOR NETWORK: IMPROVING EBMR PROTOCOL FOR THE PURPOSE OF ENERGY CONSERVATION AND DATA TRANSMISSION RELIABILITY
E014	IMPLEMENTATION OF SELECTIVE ERROR PROTECTION ON SPIHT COEFFICIENTS FOR WIRELESS VISUAL NETWORK 383 <i>JIA JAN ONG LM. ANG, K. P. SENG AND ONG FONG TIEN</i>

E015	AUDIO VISUAL-ORIENTED ENCRPYTION ALGORITHMS 389 FONG TIEN ONG, KAH PHOOI SENG, LI-MINN ANG
E024	LOW ENERGY TRANSITION CURVE
E026	A MATHEMATICAL MODEL AND HEURISTIC PROCEDURE FOR CELLULAR LAYOUT
E027	A PARALLEL TIME-DEPENDENT MULTIMODAL SHORTEST PATH ALGORITHM BASED ON GEOGRAPHICAL PARTITIONING 411 <i>H. AYED, Z. HABBAS and D. KHADRAOUI</i>
E029	PERFORMANCE EVALUATION OF DIGITAL FILTERS FOR NOISE CANCELLATION IN ELECTROCARDIOGRAM
E032	DENOISING-BASED CASCADED ALGORITHMS FOR SMOOTHING OF DIFFERENT LEVEL ADDITIVE WHITE GAUSSIAN NOISECOR-RUPTED SPECTRA
E033	INTRUSION DETECTION TECHNIQUES PERFORMANCE IN CLOUD ENVIRONMENTS
Session '	7 Computer Design and Engineering
E040	LOW NOISE AMPLIFIER AT 5.8GHZ WITH CASCODE AND CASCADED TECHNIQUES USINGT-MATCHING NETWORK FOR WIRELESS APPLICATIONS
E044	IMAGE NOISE REMOVAL APPROACHES: A REVIEW
E045	Survey on methods for configuration of active networks
E046	EXPERIMENTAL VERIFICATION OF DUAL-RANGE LINEAR CONTROLLER ON NONLINEAR UNSTABLE SYSTEM
E049	A SUPPLY CHAIN SIMULATION MODEL BASED ON SYSTEM DYNAMICS

E050	SPECIFYING DISTRIBUTED SYSTEMS USING A DIAGRAMATIC NOTATION
E052	A STUDY OF THE INFLUENCE OF FACIAL LANDMARK MISLO-CALIZATION ON AUTOMATIC AGE ESTIMATION SYSTEM 483 ALIREZA KESHAVARZ CHOOBEH and HAMID CHEGINI
E055	ALGORITHMIC STATE MACHINE AND DATA BASED MODELING OF SUPERSCALAR PROCESSOR OF ORDER 2
E056	A CNT/METAL HYBRID ROUTING ARCHITECTURE TO IMPROVE PERFORMANCE OF ULTRA-LARGE FPGAS
Session	8 Computer Design and Engineering
E059	TOWARDS AEROACOUSTIC CHARACTERIZATION OF THE SIBILANT [S] PRODUCTION FROM A SIMPLIFIED PARAMETERIZED GEOMETRIC MODEL OF THE ORAL CAVITY 503 JULIEN CISONNI, KAZUNORI NOZAKI, SHIGEO WADA and ANNEMIE VAN HIRTUM
E063	FROM IDENTIFICATION TO BUDGET ALLOCATION: A NOVEL IT RISK MANAGEMENT MODEL FOR ITERATIVE AGILE PROJECTS
E064	OPTIMAL ROUTING IN COMMUNICATION NETWORKS USING NOISY HOPFIELD NEURAL NETWORK
E10001	OPTIMIZATION OF CONTACT SEARCH POLICY IN WIRELESS MOBILE AD HOC NETWORKS
E10009	DYNAMIC CAUSAL MODELING OF FMRI DATA
E10016	SEARCH METHODS IN PEER TO PEER (P2P) NETWORKS AND REVIEWING THEIR BEST SOLUTIONS
E20006	COMPUTATIONAL ALGORITHM TO ESTIMATE FINAL COSTS BASED ON THE NUMBER OF USERS IN SPACE STRUCTURES

E20010	OPTIMIZED MODEL OF LUMBAR ARTIFICIAL DISC USING FINITE ELEMENT METHOD
E20016	WEBSITE OPTIMIZATION FOR MOBILE PHONE TO ACCESS MALAYSIA'S MINISTRY WEBSITES: A STEP TOWARDS MGOVERN-MENT READINESS
E20017	AN EXPLORATORY STUDY: ANALYSING TYPES OF MOBILE APPLICATIONS DOWNLOAD BY TERTIARY STUDENTS IN MALAYSIA
E30000	BYTE PERMUTATIONS IN BLOCK CIPHER BASED ON IMMUNE SYSTEMS
Session	9 Energy and Electrical Systems
S001	Fault Diagnosis of Power Transformers with Neural Network 581 Wang Wu, ZHANG Yuan-min and WANG Hong ling
S011	Influence of Particle Size and Temperature on Gasification Performance in Externally Heated Gasifier
S014	EFFECTS OF BIOETHANOL–DIESEL FUEL BLENDS ON EMISSIONS OF A DIESEL ENGINE
S015	DETERMINATION OF THE EFFECTS OF SAFFLOWER BIODIESEL AND ITS BLENDS WITH DIESEL FUEL ON ENGINE PERFORMANCE AND EMISSIONS IN A SINGLE CYLINDER DIESEL ENGINE
S016	Application of mesh adaptive direct search method to power system valve- point economic load dispatch
S019	Analysis of Failure and Reliability for constant speed and constant pitch Wind Turbine
S021	Design of energy efficient smart home appliance to run on low DC voltage for reducing power consumption

S023	Performance Evaluation of Wireless LAN for Control, Protection, and Monitoring of a Microgrid
S025	A New Approach to RMS Measurement Using Current Conveyors 637 <i>eBRAHIM fARSHIDI</i>
S027	InterLine Power Flow Controller and Impact on ATC Improvement 643 <i>S.M.H. Hosseini, N.Talebi and A.Dehghanpour</i>
S035	OPTIMAL GRID-CONNECTED ELECTRCITY PLANNING COMPRISING RENEWABLE ENERGY and CO2 Reduction
S037	Improving dynamic performance of wind farms in a distribution system using dstatcom
Session	10 Energy and Electrical Systems
S042	Effect of segmented contacts on fuel cell performance using 3-d modelling
S044	ENHANCEMENT OF VOLTAGE SECURITY WITHIN HIGH VOLTAGE TRANSMISSION SYSTEMS UTILIZING FACTS
S050	Modified adaptive tabu search algorithms for static economic Load dispatch
S054	DESIGN OF A LOW COST ENERGY EFFICIENT WATER ELECTROLYSIS CELL
S056	Parameter identification of frequency modulation sounds using modified adaptive tabu search
S064	Cubic Lattice Structured Multi agent based PSO approach for Optimal Power Flows with Security Constraints
S20026	REVIEW ON VARIOUS METHODS IN HARMONIC STATE ESTIMATION
S20033	Prospects and Potential in Optimize Utilization of Geothermal Energy in Iran

S30008	A NEW SWITCHING METHOD IN SPACE VECTOR MODULATION
	OF CURRENT-SOURCE-INVERTER IN ORDER TO REDUCE LOAD
	CURRENT THD
	MEHDI BABAEI and MEHRDAD AHMADI KAMARPOSHTI
S30011	OPTIMAL DESIGN OF A POWER ELECTRONIC SYSTEM FOR EF- FICIENT AND RELIABLE POWER FLOW IN DISTRIBUTED wind energy based POWER SYSTEMS
S30017	STUDY OF EFFECTIVENESS OF CIRCUIT LEVEL LEAKAGE POW- ER OPTIMIZATION TECHNIQUES IN DSM CMOS CELLS 733 DR. VEENA S CHAKRAVARTHI, P PRABHAVATHI and RAMYA SUNDERRA JAN
S30018	LIVE LINE MAINTENANCE APPLICATION AT SOUTH BALI DISTRIBUTION AREA TO INCREASE SYSTEM'S RELIABILITY 739 IAD. GIRIANTARI, NP.SATRIYA U., AI.WEKING and W.SUKERAYASA