

2017 6th ICT International Student Project Conference (ICT-ISPC 2017)

**Johor, Malaysia
23-24 May 2017**



**IEEE Catalog Number: CFP17AWE-POD
ISBN: 978-1-5386-2997-0**

**Copyright © 2017 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP17AWE-POD
ISBN (Print-On-Demand):	978-1-5386-2997-0
ISBN (Online):	978-1-5386-2996-3

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

Table of Contents

DID: Auto Censorship Document.....	1
The Design and Development of the Vocabulary Learning System for Second Language Learners using Word Association.....	5
Pelement: A Periodic Table Game For Elements Learning.....	9
Bloody Buddy: A Biology Game-Based Learning Application	13
FING: Thai Fingerspelling Practice Application.....	17
MySRT: Management System for Senior Project Document Repository and Tracking	21
FINDEREST: Identifying Personal Skills and Possible Fields of Study Based on Personal Interests on Social Media Content	25
Experiment of Reinforcement Learning with Extremum Seeking	29
Android-Based Smart Langkawi Tourism	33
SWM: Smart Waste Management for Green Environment	38
Scalability-aware Scheduling Optimization Algorithm for Multi-Objective Cloud Task Scheduling Problem	43
Figure Plagiarism Detection based on Textual Features Representation.....	49
The MedMaps Apps: Mobile Application for Finding, Managing and Commercialize Pharmacy	53
Link-fault-tolerant routing in Folded Hypercube using Directed Routing Probability	58
Acceleration of a parallel homology search for base sequences by a GPU.....	62
An Overview of Searchings Algorithm for Indonesian to German Sign Language Statistical Machine Translation	66
Optimization of Green Building Design to Achieve Green Building Index (GBI) Using Genetic Algorithm (GA).....	70
Simulation Analysis of Traffic Density Cluster toward Congestion Reduction – Comparison between Non-Diluted and Randomly Diluted Periodical Square Lattice.....	74
A Preliminary Study of the Construction of Ontology- Based Flood Management Systems	78
Usability Study of Kitchen app with Multimodal Interaction Among Beginner & Intermediate Cookers	82
Emergency Data Handling Medium Access Control Protocol for Wireless Body Area Network.....	86
Multi-path Video Streaming in Vehicular Communication: Approaches and Challenges..	90
Mobile Heart Rate Monitor for Myocardial Infarction Patients	94
Stochastic Fault-tolerant Routing in Locally Twisted Cubes	98
oHealth: A Self-Care Android Application for Senior Citizens with Hypertension	102
iCare-Stress: Caring System for Stress	106

Hybrid classification of Bayesian and Extreme Learning Machine for heartbeat classification of arrhythmia detection.....	110
Newsaday: A Personalized Thai News Recommendation System	114
Explicit Words Filtering Mechanism on Web Browser for Kids	118
UTM Community Volunteering Portal (UTMCVP).....	124
MALAYSIA EBC: Malaysia e-Book Club	129
mipMAP: A Mobile Application for Proximate Social Network Communication	133
NTRU Inverse Polynomial Algorithm Based on Circulant Matrices using Gauss-Jordan Elimination.....	137
Energy-Efficient Virtual Machine Allocation Technique Using Interior Search Algorithm for Cloud Datacenter.....	142
Herbe - Herb Database Management System	146
Code Puzzle: ActionScript 2.0 Learning Application Based on Problem Based Learning Approach.....	150
Block Matching Algorithm for Moving Object Detection in Video Forensic.....	154
MedThaiVis: An Approach for Thai Biomedical Data Visualization	159
Analysis of Motivation Approach in Mobile Crowdsensing Application	163
A Simple Object Detection of Trabecular Bone Morphology in 2D Image at Bovine Sample Preliminary Segmentation.....	167
Time Series based Forecasting for Crude Palm Oil Price Utilizing Neural Network Algorithms	172
An Overview on Crime Prediction Methods	176
A new argumentative based reasoning framework with rough set for decision making ...	181
Integration of System Dynamics with Big Data Using Python: An Overview.....	185
PilgrimTrackr: Developing A Pilgrim Tracker System	189
Smart Mirror for Smart Life	193
Chaotic Symbiotic Organisms Search for Task Scheduling Optimization on Cloud Computing Environment.....	198
A Study on Modified PSO Algorithm in Cloud Computing.....	202
Design of Accelerometer based Wrist Rehabilitation Device	206
Flood Alerts System with Android Application	210
Implication of South China Sea Arbitration to Malaysia (Case Study: Philippine Versus China).....	214
Towards the Adoption of Electronic Word of Mouth in Social Commerce	218
Technical Features for Social Commerce Website	222
Selecting Image Pairs for SfM on Large Scale Dataset by Introducing a Novel Set Similarity.....	227
Police Personality Classification Using Principle Component Analysis-Artificial Neural Network.....	231

Shortest-path Routing in Spined Cubes	235
Mining of E-learning Behavior using SOM Clustering	239
Application of Genetic Algorithm for Doctor Rostering at Primary Care Clinics in Malaysia.....	243
Patient's Medical Image Mobile Controller	247
Geographic Forwarding Techniques: Limitations and Future Challenges in IVC	251
Priority based QoS Protocol for Heterogeneous Traffic Routing in WSN.....	256
Web based Online Bakery System with Short Messaging Service and Email Notification	261
EM Based Non-Linear Regression and Singular Value Decomposition for Epilepsy Classification.....	265
Performance Analysis of Linear Layer Neural Networks for Oral Cancer Classification	269
Propose an Enhanced Social Support for B2C Persuasive Recommendation System in Malaysia.....	273
Stimulus Based Algorithm For Extracting Electrocardiogram Signal From The Head For Eyewear Devices.....	277
The Development of Multi-Platforms Application for Dengue-Entomological Surveillance System.....	282
Data Privacy Model for Social Media Platforms	286