

**Thirteenth International Conference on Intelligent
Systems Design and Applications (ISDA 2013)**

Malaysia

December 08-10, 2013

**** Technical Programme ****

– December 08, 2013 –

* Free Day *

Registration desk will operate from 14:00 – 16:00 hrs

December 09, 2013

08:30 – 09:00: Opening ceremony

09:00 – 09:50: Plenary talk 1: Intelligent Systems
Design and Applications – A Perspective from Industry
Thillai Raj Ramanathan, MIMOS Berhad, Malaysia

09:50 – 10:20: coffee break

10:20 – 13:00

Session: Function Approximation I

3 Fusion of spectral and time domain features for crowd
noise classification system
Ramu Reddy Vempada, Aniruddha Sinha and Guruprasad
Seshadri

4 High quality text-to-speech synthesis system with
efficient duration models developed using coding
schemes based on vowel production characteristics
Ramu Reddy Vempada and K. Sreenivasa Rao

22 Signature Segmentation and Recognition for Scanned Document Retrieval

Ranju Mandal, Partha Roy, Umapada Pal and Michael Blumenstein

34 Stimulus-stimulus Association via Reinforcement Learning in Spiking Neural Network

Nooraini Yusoff and Farzana Kabir Ahmad

46 An Approach for an Automatic Fracture Detection of Skull Dicom Images based on Neighboring Pixels

Nirase Fathima Abubacker, Azreen Azman, Masrah Azrifah and Shyamala Doraisamy

47 Gait Based People Identification System using Multiple Switching Kinects

Rohan Banerjee, Aniruddha Sinha and Kingshuk Chakravarty

48 Copy Move Forgery Detection using DWT and SIFT Features

Mohammad Farukh Hashmi, Aaditya R. Hambarde and Avinash G. Keskar

13:00 - 14:00: Lunch

14:00-15:00: Plenary Talk 2: Fairness Relations and their Applications to Networking, Data Analysis and Optimization

Mario Koeppen, Kyushu Institute of Technology, Japan

15:00 - 16:30

Session: Function Approximation II

24 Educational Data Mining: A Case Study of Teacher's Classroom Questions

Anwar Ali Yahya, Addin Osman and Ahmed Alattab

26 PCA and LDA as Dimension Reduction for Individuality of Handwriting in Writer Verification

Ramlee Rimashadira, Muda Azah Kamilah and Syed Ahmad Sharifah Sakinah

58 Cloud Mobi Framework Architecture: A Social Interaction Travel Recommendation System Framework using AHP method
Perly Thai Ee Peh, Yun-Huoy Choo and Burhanuddin Mohd Aboobaider

60 3D Imaging of Human Brain in the Diagnostics of Insomnia and Depression: a Comparative Analysis, a Novel Insomnia/Depression Diagnostics Approach, and Lessons Learned
Tiia Ikonen, Keijo Haataja and Pekka Toivanen

62 Text2MARK - A text mining tool in the aid of knowledge representation
Clay Palmeira, Jefferson Morais and Dionne Monteiro

80 Modeling Academic Achievement of UUM Graduate Using Data Mining
Fadzilah Siraj

16:30 - 16:45: coffee break

19:00 - 21:00 : Conference Dinner

December 10, 2013

08:30 - 09:15: Plenary talk 3: Bayesian Reasoning for Military Identification and Classification
Albert Bodenmueller, Cassidian, Germany

09:15 - 10:00: Plenary talk 4: ViaRODOS.eu - Implementation of intelligent transport system
Jan Martinovic, IT4Innovations - Center of excellence, VSB - Technical University of Ostrava, Czech Republic

10:00 - 10:20: Coffee break

10:20 - 11:45

Parallel Session I: Optimization

8 Solving Asymmetric Traveling Salesman Problems using a Generic Bee Colony Optimization Framework with Insertion Local Search

Li-Pei Wong, Ahamad Tajudin Khader, Mohammed Azmi Al-Betar and Tien-Ping Tan

12 The Impact of Refinement Strategies on Sequential Clustering Algorithms

M. C. Nicoletti, E. M. Real and O. L. Oliveira

39 Hybridization of Particle Swarm Optimization with adaptive Genetic Algorithm operators

Suraya Masrom

66 Significance Relations for the Benchmarking of Meta-Heuristic Algorithms

Mario Koeppen and Kei Ohnishi

67 An Artificial Immune System Algorithm for Optimizing The Distributed Production Scheduling in The Semiconductor Assembly Industry

Nur Ifwah Mohd Anuar, Umi Kalsom Yusof and Mohd Nor Akmal Khalid

11::45 - 13:00

Parallel Session II: Applications

11 A Multi-agent Knowledge Expert Locating System: A Software Agent Simulation on Personal Knowledge Management (PKM) Model

Shahrinaz Ismail, Tran Duc Nguyen and Mohd Sharifuddin Ahmad

15 Towards a Generic Agent-based Simulation Model for Time-constrained Tasks

Tran Nguyen, Alicia Y.C. Tang and Azhana Ahmad

17 Concept-based Video Retrieval Model Based On The Combination of Semantic Similarity Measures

Sara Memar, Lilly Suriani Affendey, Norwati Mustapha
and Mohammadreza Ektefa

37 Semantic Question Answering of Umra Pilgrims to
Enable Self-Guided Education
Nurfadhlna Mohd Sharef, Masrah Azrifah Azmi Murad and
Aida Mustapha

10:20 - 13:00

Parallel Session III: Web Intelligence

Chair:

13 Detecting Deceptive Reviews Using Lexical and
Syntactic Features
Somayeh Shojaee, Masrah Azrifah Azmi Murad, Azreen
Azman, Nurfadhlna Mohd Sharef and Samaneh Nadali

19 An Ontology-based Search Engine for Postgraduate
Students Information at the Ministry of Higher
Education Portal of Iraq
Hazim Abed, Alicia Tang and Zaihisma Cob

23 An ontology development approach with a focus on
human centered design
Rizwan Iqbal, Masrah Azrifah Azmi Murad, Aida Mustapha
and Nurfadhlna Mohd. Sharef

29 An HTTPS approach to Resist Man in the Middle Attack
in Secure SMS Using ECC and RSA
Muhammad Murad Khan, Majid Bakhtiari and Saeid
Bakhtiari

32 Receiver-Based AODV Routing Protocol for MANETs
Abdulaziz Al-Nahari, Mohd Murtadha Mohamad and Saleh
Al-Sharaeh

38 ULUL-ILM : The Design of Web-Based Adaptive
Educational Hypermedia System Based on Learning Style
Bilal Luqman Bayasut, Gede Pramudya and Halizah Basiron

40 Agents of Things (AoT): An Intelligent Operational
Concept of the Internet of Things (IoT)
Anas M Mzahm, Mohd Sharifuddin Ahmed and Alicia Y. C.

Tang

42 Towards More Accurate and Intelligent Recommendation Systems

Timo Kähärä, Keijo Haataja and Pekka Toivanen

55 Applying Semantic Similarity Measures to Enhance Topic-Specific Web Crawling

Ali Pesaraghader, Norwati Mustapha and Ahmad Pesaraghader

13:00 - 14:00 : Lunch

14:00 - 14:45: Plenary Talk 5 - Run and Share your Research findings: Is it a Novel Era of Research Sharing and Reproducibility?

Layth Sliman, EFREI, France

14:45: 16:00

Parallel Session IV: Pattern Recognition and Applications

21 Sclera Recognition Using Dense-SIFT

Abhijit Das, Umapada Pal, Miguel Ferrer and Michael Blumenstein

27 Prime Order Elliptic Curve Generation Methods : A Review

Saeid Bakhtiari, Subariah Ibrahim and Mazleena Salleh

51 Personal and Extended Intelligence in Collective Emergence

Saraswathy Shamini, Mohd. Sharifuddin Ahmad and Salama A. Mostafa

56 Implementation of Buckwalter Transliteration to Malay Corpora

Juhaida Abu Bakar, Khairuddin Omar, Mohammad Faidzul Nasrudin, Mohd Zamri Murah and Che Wan Shamsul Bahri C. W. Ahmad

57 A Temporal-Focused Trustworthiness to Enhance Trust-based Recommender Systems

Morteza Ghorbani Moghaddam, Norwati Mustapha, Aida Mustapha and Nurfadhlin Mohd Sharef

Parallel Session V: Complex networks: data processing and log analysis

65 Compression-based similarity in EEG signals
Michal Prilepok, Jan Platos, Vaclav Snasel and Ibrahim Salem Jahan

71 Irradiance prediction using Echo State Queueing Networks and Differential Polynomial Neural Networks
Sebastian Basterrech, Ladislav Zjavka, Lukas Prokop and Stanislav Misek

73 Scalable Parallel SOM Learning for Web User Profiles
Lukas Vojacek, Jiri Dvorsky, Katerina Slaninova and Jan Martinovič

74 User Behavioural Patterns and Reduced User Profiles Extracted From Log Files
Katerina Slaninova

75 An Empirical Study of L2-Boost with Echo State Networks
Sebastian Basterrech

16:00 - 16:20 - Coffee break

16:20 - 17:15 :

Parallel Session V: Data processing and applications

68 Classification of SNPs for Obesity Analysis using FARNeM Modelling
Phaik-Ling Ong, Yun-Huoy Choo and Nurul Akmar Emran

72 Color Fuzzy Set Design for Dental Applications
Luis Herrera, Oscar Emilio Pecho, Razvan Ghinea, Ignacio Rojas, Hector Pomares, Alberto Guillen, Ana Ionescu, Juan de la Cruz Cardona, Rosa Pulgar and María del Mar Pérez

77 Rotation Invariant Texture Feature Based on Spatial Dependence Matrix for Timber Defect Detection
Ummi Raba'Ah Hashim, Siti Zaiton Mohd Hashim, Azah

Kamilah Muda and Mohammad Babrdel Bonab

16:20 - 17:30 :

Parallel Session VI: Computer Security and Intelligence
(CSI 2013)

81 A Review of Cyberbullying Detection : An Overview
Samaneh Nadali, Masrah Azrifah Azmi Murad, Nurfadhlina
Mohamad Sharif, Aida Mustafa and Somayeh Shojae

82 Feature Extraction Process: A Phishing Detection
Approach
Ahmad Abunadi, Oluwatobi Akanbi and Anazida Zainal

83 Spam detection using hybrid Artificial Neural
Network and Genetic Algorithm Anas Arram, Anazida
Zainal and Hisham Mousa

84 A Review of Anonymous Authentication Mechanisms for
Health Information Management Systems Shukor Abd Razak
and Muhammad Syafiq Samsi

85 Identification of Spam Email Based on Information
from Email Header
Shukor Abd Razak and Ahmad Fahrulrazie Mohamad

* Posters Presentations *

9 Rough Set Theory Approach for Filtering Spams from
boundary messages in a Chat System
Sanjiban Sekhar Roy, Saptarshi Charaborty, Swapnil
Sourav and Ajith Abraham

10 Self-adaptive Differential Particle Swarm using a
Ring Topology for Multimodal Optimization
Gonzalo Napoles, Isel Grau, Rafael Bello, Rafael Falcon
and Ajith Abraham

25 Modeling Expert Preference using the Qualitative
Belief function Framework
Amel Ennaceur, Zied Elouedi and Eric Lefevre

30 Classifying Breast Cancer Types Based on Fine Needle

Aspiration Biopsy Data Using Random Forest Classifier
Farzana Kabir Ahmad and Nooraini Yusoff

36 Multiple Faces Recognition in Real-Time Using Cloud
Computing, Emgu CV and Windows Azure
Diego Von Sohsten and SÉrgio Fernandes

45 Random Validation and Fault Detection Method in
Systems Implementations
Danilo Valeros Bernardo

50 Toward Full-text Searching Middleware over
Hierarchical Documents
Kun Ma, Yang Bo and Ajith Abraham

59 A Metaheuristic Optimisation Based on Commensalism
Fitrianto Kusumo, Mohammad Faidzul Nasrudin and Dwi
Yanuar Panji Tresna

63 Multidimensional Temporal Clustering: geometrical
similarity measures analysis in k-means
Ramona Stoica

64 A tool for comparing multirelational networks from
biology
Ramona Stoica

76 Comparison of different computational intelligent
classifier to autonomously detect cardiac pathologies
diagnosed by ECG
Olga Valenzuela and Ignacio Rojas

78 A Baseline Time Series Data Mining Model for
Forecasts in Port Logistics and Economics
Ana Halabi Echeverry, Deborah Richards and Ayse Bilgin

79 Extracting Workflow Structures through Bayesian
Learning and Provenance Data
Simone Ludwig

80 The Potential Effectiveness of the Detection of
Pulsed Signals in the Non-Uniform Sampling
Arthur Smirnov, Stanislav Vorobiev and Ajith Abraham

81 The Influence of Depression on Deactivation and
Neural Correlates During Mental Arithmetic Tasks
Shigang Feng, Wei Wang, Liang Chen, Hongyu Fan, Ajith
Abraham, Jianlin Wu