2017 11th International Conference on Software, Knowledge, Information Management and Applications (SKIMA 2017)

Malabe, Sri Lanka
6-8 December 2017
SKIMA 2017 - Table of Contents

Session 1: Information Management and Applications

A Network-based Ranking Approach to Discover Places Visited by Tourists from Geo-located Tweets
Nicola Cortesi, Kevin Gotti, Giuseppe Psaila, Federica Burini, Khin T. Lwin and MA Hossain

Digitization and Preservation of Cultural Heritage: The CEPROQHA Approach
Abdelhak Belhi, Abdelaziz Bouras and Sebti Foufou

An Investigation of Tourism Information on Destination Management Organization Websites as the Pull Factor: A Study of Health and Wellness Tourism Information
Arunotai Pongwat

A New Approach To Extract Meaningful Clinical Information From Medical Notes
Rabindra Bista and Awanish Ranjan

A Decision Scheme based on Adaptive Morphological Image Processing for Mobile Detection of Early Stage Diabetic Retinopathy
Ashim Chakraborty, David Chik, Matilda Biba and Alamgir Hossain

Establishing compliant workflow from documents
Katalin Ternai and Ildikó Szabó

Session 2: Product Optimization and Manufacturing Systems

Optimisation of Cogeneration Units in Large Heating Systems
Tomasz Siewierski, Tomasz Pająk and Marcin Deląg

A structured approach to implement product traceability for ISO 9001:2015 based on Unified Modeling Language
Chen Xiang and Matteo Savino

Human Asset Management at the End-of-Life Phase
Piang-Or Loahavilai, Nopasit Chakpitak and Thunyaporn Jaimung

A Review of CPS 5 Components Architecture for Manufacturing Based on Standards
Ahmadzai Ahmadi, Chantal Cherifi, Vincent Cheutet and Yacine Ouzrouit

Abstract Control Interface for Job Shop Manufacturing Systems with RMTs
Undram Chinges, Ping Liu, Qiang Zhang, Ingrid Rügge and Jürgen Pannek

Computational Fluid Dynamics based Performance Evaluation of Louvered Fin Radiator
Suyesh Bhattarai, Subodh Ghimire, Krishna Mohan Raju, Keshav Dahal
Session 3: Intelligent Approaches and Applications

Cluster-based Under-sampling with Random Forest for Multi-Class Imbalanced Classification
Md Yasir Arafat, Sabera Hoque and Dewan Farid

MEBoost: Mixing Estimators with Boosting for Imbalanced Data Classification
Farshid Rayhan, Sajid Ahmed, Asif Mahbub, Md. Rafsan Jani, Swakkhar Shatabda, Dewan Farid and Chowdhury Mofizur Rahman

Keystroke Biometric System for Touch Screen Text Input on Android Devices
Prakash Gautam and Pankaj Dawadi

Intelligent Mobile Assistant for Hearing Impairers to Interact With the Society in Sinhala Language
Yasitha Perera, Nelunika Jayalath, Shenali Tissera, Oshani Bandara and Samantha Thelijjagoda

A Rule-Based Approach to Business-IT Misalignment Symptom Detection
Dora Ori

ICT-Enabled Social Innovation
Andras Gabor

STEM Learning Concept with Fuzzy Inference for Organic Rice Farming Knowledge Acquisition
Jirawit Yanchinda, Thepparit Sinthamrongruk and Keshav Dahal

Session 4: ICT Applications for Education and Business

Online Reviews Evaluation System for Higher Education Institution: An Aspect Based Sentiment Analysis Tool
Luxchippiriya Balachandran and Abarna Kirupananda

Adaptive and Automated Online Assessment Evaluation System
Thanuja Sandanayake, Dumal Aluthdeniya, Dilini Shanika and Sachini Pathinayaka

Emergent technologies for Inter-enterprises collaboration and business evaluation
Ibrahim Benali, Baudouin Dafflon, Mohand Lounes Bentaha and Néjib Moalla

Web Based Programming Tool with Speech Recognition for Visually Impaired Users
Kaveendra Lunuwilage, Shamini Mendis, Sameera Abeysekara, Lahiru Witharama and Samantha Thelijjagoda

Learning Platform for Visually Impaired Children through Artificial Intelligence and Computer Vision

An assessment conceptual Framework for the modernization of Legacy Systems
Abir M’bay, Jannik Laval and Nejib Moalla
Session 5: Intelligent Approaches and Smart Applications

A Motion Classification Approach to Fall Detection
Shanfeng Hu, Worasak Rueangsirarak, Maxime Bouchee, Nauman Aslam and Hubert Shum

Combined Use of Lifecycle Management and IoT in Smart Cities
Ahmed Hefnawy, Taha Elhariri, Abdelaziz Bouras, Chantal Cherifi, Jérémy Robert, Sylvain Kubler and Kary Främling

Fast Differential Evolution for Big Optimization
Mohamed Meselhi, Saber Elsayed, Daryl Essam and Ruhul Sarker

Unsupervised Abnormal Behaviour Detection with Overhead Crowd Video
Shoujiang Xu, Edmond S. L. Ho, Nauman Aslam and Hubert P. H. Shum

An Organization Learning With LEGO® SERIOUS PLAY®
Vimolboon Cherapanukorn and Manissaward Jintapitak

Session 6: Wireless networks

Channel measurement and characterization for a complex industrial and office topology at 2.4 GHz
Theofilos Chrysikos, Panagiotis Georgakopoulos, Iliana Oikonomou, Stavros Kotsopoulos and Dimitrios Zevgolis

A CPW fed Antenna with Semicircular patch on Triangle for Wideband Wireless Applications
Sulakshana Chilukuri and Keshav Dahal

Prototype of Automatic Accident Detection and Management in Vehicular Environment Using VANET and IoT
Kishwer Abdul Khaliq, Amir Qayyum and Jürgen Pannek

Novel Message Dissemination Mechanism and Mathematical Model for Safety Applications in VANET
Kishwer Khaliq, Amir Qayyum and Jürgen Pannek

TreeSpirit: Illegal Logging Detection and Alerting System using Audio Identification over an IoT Network

A Hybrid Approach to Java Virtual Machine Used in Wireless Sensor Networks
Rabindra Bista and Sapan Aryal

Session 7: Software Engineering and Management

A New Approach for Software Risk Estimation
Rabindra Bista, Sushma Karki and Deeyoranjan Dongol
**Collabcrew - An Intelligent Tool for Dynamic Task Allocation within a Software Development Team**
Shazna Samath, Dilantha Udalagama, Dilsha Premarathne, Hansani Kurukulasooriya and Samantha Thelijjagoda

**Security Testing as a Service with Docker Containerization**
Pavithra Pathirathna, Ishan Ayesha, Thinuwan Imihira, Jayani Wasala, Nuwan Kodagoda and Tharindu Edirisinghe

**Robust Comparison of Similarity Measures in Analogy-Based Software Effort Estimation**
Passakorn Phannachitta

**Social Media Based Personalized Advertisement Engine**
Hansi De Silva, Poorna Jayasinghe, Sithira Pramudith, Ashen Perera and Dharshana Kasthurirathna

**Session 8: Knowledge management and Learning Systems**

**Classification and Trends in Knowledge Research Relevance and context for smart farm technology development**
Paweena Suebsombut, Aicha Sekhari, Pradorn Sureepong and Abdelaziz Bouras

**Self-Learning System with Automatic Feedback for Text Answers**
Kasun Kodithuwakku, Chathra Senevirathne, Dhanuka Randeniya, Aravinda Wijewardane and Anjalie Gamage

**A job applicants’ résumé verification method using a social network analysis**
Ki-Young Shin and Jong-Hyeok Lee

**Mobile Enabled Content Adaptation System for PDF Documents**
Sundar Roy Chowdhury, Pragma Kar, Matangini Chattopadhyay, Munmum Bhattacharya and Samiran Chattopadhyay

**Information Strategy Challenges in the Digital Era - How Enterprise Architecture Management Can Support Strategic IS Planning**
Dóra Őri and Zoltán Szabó

**A Hybrid Approach for Cold Start Recommendations**
Madhulika Agrawal, Teresa Gonçalves and Paulo Quaresma