THU 9:40 - 12:50
Poster Session I

(ACI1) Advanced and Convergent IT

Encountering Smartphones in Network Simulation: A Preliminary Result on Multi-Radio Multicast
Yongwoon Park and Wonyong Yoon

Modeling for Context-Aware Healthcare Service using Ontology
Junho Choi, Jeongin Kim, and Pankoo Kim

A Novel Double Linear–Cubic Convolution Interpolation for Digital Image Scaling
Hae-Min Moon, Kyeong-Ri Ko, JuHyun Shin, and Sung Bum Pan

Method for Fast Clustering of Data Distributed on a Sphere Surface
Tran Tin and Sung-Ryul Kim

Performance Analysis of the Golden-SM in the V2V Network
Myung Chul Park and Dong Seog Han

Matrix Correlation Distance for 2D Image Classification
Hyunsoek Choi, Jeongin Seo, and Hyeyoung Park

A New Device Discovery Scheme in Lighting Control Networks
Sang-II Choi, Seoki-Joo Koh, Insu Kim, Sang-Kyu Lim, and Tae-Gyu Kang

Impacts of Delayed Replication on the Key-Value Store
Minwoo Jang, Woochur Kim, Yookun Cho, and Jiman Hong

(BHI) BioHealth Informatics Track

Similar MRI Object Retrieval based on Modified Contour to Centroid Triangulation with Arc Difference Rate
Byung K. Jung, Sung Y. Shin, Wei Wang, Hyung D. Choi, and Jeong K. Pack

Design and Implementation of a Personal Health Monitoring System with an Effective SVM-Based PVC Detection Algorithm in Cardiology
Huan Chen, Guo-Tan Liao, Yao-Chung Fan, Bo-Chao Cheng, Cheng-Min Chen, and Ting-Chun Kuo

A Low Cost Digital Operating Room

(CC) Cloud Computing Track

Experimenting on Virtual Machines Co-Residency in the Cloud: A Comparative Study of Available Test Beds
Abdulaziz Alabdulhafez and Paul Ezhilchelvan

Towards Better Manageability of Database Clusters on Cloud Computing Platforms
Miguel G. Xavier, Israel C. De Oliveira, Robson D. Dos Passos, and Cesar A.F. De Rose

(COSYS) Cooperative Systems Track

Redesigning Transaction Load Balancing on Electronic Funds Transfer Scenarios
Rodrigo da Rosa Righi, Cristiano André da Costa, Luis Gonzaga, Kleinner Farias, Alexandre Luis Andrade, and Lucas Graebin

Towards a Learning Design Authoring Tool that Generates Personalized Units of Learning for CSCL
Geiser Chalco Challco and Seiji Isotani

Choosing my Partners based on How They will Evaluate my Behavior
Elane Cristina da Rocha Cardoso Saraiva and Viviane Torres da Silva

(DADS) Dependable and Adaptive Distributed Systems Track

Hierarchical Topology Adaptation for Distributed Convergecast Applications
Sandip Chakraborty, Suchetana Chakraborty, Sushanta Karmakar, and Hridoy Sankar Dutta

An Energy-Aware Service Composition Framework for Service-Oriented Wireless Sensor Networks
Tao Wang, Ke Zhang, and Lianglun Cheng

(DM) Data Mining Track

The Discovery of user Related Rare Sequential Patterns of Topics in the Internet Document Stream
Zhongyi Hu, Hongan Wang, and Jiaqi Zhu

(DTTA) Database Theory, Technology and Applications Track

Speaking in Tongues: SQL Access to NoSQL Systems
Julian Rith, Philipp S. Lehmayr, and Klaus Meyer-Wegener

A Test Framework for Large Scale Declarative Queries: Preliminary Results
Amin Mesmoudi and Mohand-Saïd Hadid

(EC) Applications of Evolutionary Computing Track

Mirrored Orthogonal Sampling with Pairwise Selection in Evolution Strategies
Hao Wang, Michael Emmerich, and Thomas Bäck

Towards Automated Malware Creation: Code Generation and Code Integration
Andrea Cani, Marco Gaudesi, Ernesto Sanchez, Giovanni Squillero, and Alberto Tonda

(IILE) Intelligent and Interactive Learning Environments Track

Towards a Framework for Relevant Guidance
Elaine H.T. Oliveira, Erika H. Nozawa, and Rosa M. Vicari

WAVE: An Architecture for Predicting Dropout in Undergraduate Courses using EDM
Laci Mary Barbosa Manhães, Sérgio Manuel Serra da Cruz, and Geraldo Zimbrow

(IIF) Intelligent Information Fusion Track

Smell Classification using Weakly Responding Data
Sigeru Omatu and Mitsuaki Yano

(MP) Mobile Platforms

Traffic 411: A Traffic Congestion Routing and Awareness Platform for Nairobi
Andrew Kinai, Reginald E. Bryant, Aisha Walcott-Bryant, Eric Mibuari, Komminist Weldemariam, and Osamuyimen Stewart

(NET) Networking Track

A Low-Latency Service Composition Approach in Mobile Ad Hoc Networks
Chenyang Liu, Jian Cao, and Frédéric Le Mouël

(RS) Recommender Systems: Theory and Applications Track

PrefRank: Fair Aggregation of Subjective user Preferences
Anirban Basu, Juan Camilo Corena, Shinsaku Kiyomoto, Jaideep Vaidya, Stephen Marsh, and Yutaka Miyake

A Recommendation Approach for Digital TV Systems based on Multimodal Features
Reudismam Rolim, Felipe Barbosa, Alexandre Costa, Giovanni Calheiros, Hyggo Almeida, Angelo Perkusich, and Aldenor Martins
(SGST) Smart Grid and Smart Technologies Track

Cyber-Secure Communication Architecture for Active Power Distribution Networks
Teklemariam Tsegay Tesfay, Jean-Pierre Hubaux, Jean-Yves Le Boudec, and Philippe Oechslin

Smart Grid Modeling using a Complex System Approach
Soufian Ben Amor, Alain Bui, and Guillaume Guérard

Energy Disaggregation meets Heating Control
Murat Ahat, Soufian Ben Amor, and Alain Bui Stephan Spiegel and Sahin Albayrak

Monitoring Water Scarcity Risk in Africa
Kala Fleming, Komminist Weldemariam, Haggai Wangusi, and Osamuyimen Stewart

(SONAMA) Social Network and Media Analysis Track

Automatic Categorization of Questions from Q&A Sites
Eduardo Cunha Campos and Marcelo de Almeida Maia

A Hybrid Algorithm for Recommendation to Twitter Peers
James N.K. Liu, Zongnong Meng, Yanxing Hu, Yulin He, Simon C.K. Shiu, and Vincent W.S. Cho

Preventing the Diffusion of Negative Information based on Local Influence Tree
Li Yang, Sha Ying, Shan Jixi, Jiang Bo, and Wu Jianjun

Spectral Analysis and Text Processing Over the Computer Science Literature: Patterns and Discoveries
Rosa V.E. Quille, Caetano Traina Jr., and Jose F. Rodrigues Jr.

The Strength of Social Strength: An Evaluation Study of Algorithmic versus User-Defined Ranking
Juwel Rana, Johan Kristiansson, and Kåre Synnes

(SWA) The Semantic Web and Applications Track

Analyzing Network Privacy Preserving Methods: A Perspective of Social Network Characteristics
Duck-Ho Bae, Jong-Min Lee, Sang-Wook Kim, Youngjoon Won, and Yongsu Park

Utilizing Domain-Specific Keywords for Discovering Public SPARQL Endpoints: A Life-Sciences Use-Case
Muntazir Mehdi, Aftab Iqbal, Ali Hasnain, Yasar Khan, Stefan Decker, and Ratnesh Sahay

(WCN) Wireless Communications and Networking

DDoS Attack Detection by using Packet Sampling and Flow Features
Jae-Hyun Jun, Cheol-Woong Ahn, and Sung-Ho Kim

(WT) Web Technologies Track

Cross-Platform Mobile Development: A Study on Apps with Animations
Matteo Ciman, Ombretta Gaggi, and Nicola Gonzo

OSBS: Online Storm-Water Billing System
Wook-Sung Yoo

Thu 2:40 - 5:40
Poster Session II

(ACI2) Advanced and Convergent IT

Analysis of Binary Code Topology for Dynamic Analysis
Byeongho Kang and Eul Gyu Im

A Kernel-Based Monitoring Approach for Analyzing Malicious Behavior on Android
Younsik Jeong, Hwan-taek Lee, Seong-jie Cho, Sangchul Han, and Minkyu Park

An Optimal Device Selection for User Satisfaction of Content Sharing
Jiamei Tang, Paul Kim, and Sangwook Kim

A CUDA-Based Implementation of OpenGL-Compatible Rasterization Library Prototype
Young Chun Kwon and Nakhoon Baek
Design of a Cellular Automata Cell with Rule 30 on Quantum-Dot Cellular Automata

Respiratory Motion Estimation using Visual Coded Markers for Radiotherapy
Udaya Wijenayake and Soon-Yong Park

The Effect of IMPORT Change in Software Change History
Jungil Kim and Eunjoo Lee

Virtual Prototype Generation by Shockwave Flash for Simulating HW Components of Embedded System
Soo Young Jang, Ajay Kumar Jha, and Woo Jin Lee

(CIVIA) Computational Intelligence Video & Image Analysis Track

Face Recognition based on Global and Local Features
Cleber Zanchettin

Two Level Reversible Data Hiding in 2D Images
N. Ramalingeswara Swamy, Saiful Islam, and Phalguni Gupta

Anthropometric and Human Gait Identification using Skeleton Data from Kinect Sensor
Virginia Andersson, Rafael Dutra, and Ricardo Araújo

(CM) Coordination Models, Languages and Applications Track

Flexible Modeling of Policy-Driven Upstream Notification Strategies
Eva Kühn, Stefan Craß, Gerson Joskowicz, and Martin Novak

Self-Composition of Services with Chemical Reactions
Francesco De Angelis, Jose Luis Fernandez-Marquez, and Giovanna Di Marzo Serugendo

(CSP) Constraint Solving and Programming Track

An Enhanced Features Extractor for a Portfolio of Constraint Solvers
Roberto Amadini, Maurizio Gabbielli, and Jacopo Mauro

Flexible Cooperation in Parallel Local Search
Danny Munera, Daniel Díaz, Salvador Abreu, and Philippe Codognet

(EE) Enterprise Engineering Track

Big Data meets Process Mining: Implementing the Alpha Algorithm with Map-Reduce
Joerg Evermann and Ghazal Assadipour

eXtreme Enterprise Architecture Planning
Hugo Ramos and André Vasconcelos

Ontology-Based Enterprise Architecture Model Analysis
Gonçalo Antunes, Marzieh Bakhshandeh, Rudolf Mayer, José Borbinha, and Artur Caetano

(HCI) Smart Human Computer Interaction Track

A User Study on Tailoring GUIs for Smartphones
David Alonso-Ríos, David Raneburger, Roman Popp, Hermann Kaindl, and Jürgen Falb

Method for Visualizing Undone Operations based on Changes on Desktop Screen
Arisa Sakamoto, Takuya Katayama, Tsutomu Terada, and Masahiko Tsukamoto

(IAR) Information Access and Retrieval Track

Probabilistic Opinion Models based on Subjective Sources
Faiza Belbachir, Mohand Boughanem, and Malik M.Saad Missen

Improved Named Entity Recognition – Patterns in Columns Model (PCM)
Chun Yong Moon, Manjula Pilaka, Hye-young Paik, and John Shepherd

Exploring Query Reformulation for Named Entity Expansion in Information Retrieval
Bissan Audeh, Philippe Beaune, and Michel Beigbeder

Using Context Information for Improving Structure-based Matching
Karine B. de Oliveira and Carina F. Dorneles

(MCA) Mobile Computing and Applications Track
Integrating IEEE 11073 and Constrained Application Protocol for Personal Health Devices
Danilo F.S. Santos, Frederico M. Bublitz, Hyggo O. Almeida, and Angelo Perkusich

Smartphone based Multimodal Activity Detection System using Plantar Pressure Sensors
Ferdaus Ahmed Kawsar, Sheikh Iqbal Ahamed, and Richard Love

(MMV) Multimedia and Visualization Track
An Approach to Support Stereoscopic 3D Web Qinshui Chen, Wenmin Wang, Ronggang Wang, Jianlong Zhang, and Zhongxin Liu

Introduction of a Multi-Layer Predictive Search Strategy for Scalable Video Coding
Ronaldo Husemann and Valter Roesler

(OS) Operating Systems Track
Per-Cluster Allocation of Relocation Staff on Electric Vehicle Sharing Systems
Junghoon Lee, Gyung-Leen Park, Jihyun Kang, and Naram Ham

Mapping of the Synchronization Mechanisms of the Linux Kernel to the Response-Time Analysis Model
Daniel Bristot de Oliveira and Rômulo Silva de Oliveira

(PL) Programming Languages Track
Global Value Numbering for Redundancy Detection: A Simple and Efficient Algorithm
Nabizath Saleena and Vineeth Paleri

Manipulating Models using Internal Domain-Specific Languages
Filip Kříka, Philippe Collet, and Robert B. France

Linter – A Tool for Finding Bugs and Potential Problems in Scala Code
Matic Potočnik, Uroš Čibej, and Boštjan Slivnik

(RE) Requirements Engineering Track
Quality of Requirements Specifications: A Preliminary Overview of an Automatic Validation Approach
Alberto Rodrigues da Silva

Transformation Approach from KAOS Goal Models to BPMN Models using Refinement Patterns
Hiroki Horita, Kozo Honda, Yuichi Sei, Hiroyuki Nakagawa, Yasuyuki Tahara, and Akihiko Ohsuga

(SATTA) Software Architecture: Theory, Technology, and Applications Track
Ontology Driven Builder Pattern – A Plug and Play Component
Amrita Chaturvedi and Prabhakar T.V.

(SE) Software Engineering Track
Dynamics of Open-Source Software Developer's Commit Behavior: An Empirical Investigation of Subversion
Yutao Ma, Yang Wu, and Youwei Xu

Rethinking Agribusiness Models in Africa
Charity Wayua, Komminist Weldemariam, and Osamuyimen Stewart

A Dynamic Analysis Technique to Extract Symptoms that Suggest Side Effects in Framework Applications
Izuru Kume, Naoya Nitta, Masahide Nakamura, and Etsuya Shibayama

Combining Research and Education of Software Testing: A Preliminary Study
Zhenyu Chen, Atif Memon, and Bin Luo

Towards a Quality Model for Model Composition Effort
Kleinner Farias, Alessandro Garcia, Carlos Lucena, Luiz Gonzaga Jr., Cristiano André da Costa, Rodrigo da Rosa Righi, Fábio Basso, and Toacy Oliveira

Build System Analysis with Link Prediction
Xin Xia, David Lo, Xinyu Wang, and Bo Zhou
An Empirical Study of Bugs in Build Process
Xiaoqiong Zhao, Xin Xia, Pavneet Singh Kochhar, David Lo, and Shanping Li

A Survey on Research in Software Reliability Engineering in the Last Decade
Joicymara Xavier, Autran Macêdo, Rivalino Matias, and Lucio Borges

(SEGC) Software Engineering Aspects of Green Computing Track
Green-as-a-Service (GaaS) for Cloud Service Provision Operation
Mahamat Issa Hassan and Rami Bahsoon

(TRECK) Trust, Reputation, Evidence and other Collaboration Know-How Track
Learning Reputation in an Authorship Network
Charanpal Dhanjal and Stéphan Clémençon

Student Research Competition Program

Student Research Abstract: A Privacy-Preserving Profile Matching based Authentication System for Mobile Health Networks
Smart Human Computer Interaction (HCI) Track
David Hundely Abraham Davidraj

Student Research Abstract: A Real-Time Smartphone- and Smartshoe-Based Fall Prevention System
Mobile Computing and Applications (MCA) Track
A.K.M. Jahangir Alam Majumder

Student Research Abstract: A Domain Specific Language for Process Scheduling Operating Systems (OS) Track
Daniel Röhrig

Student Research Abstract: A Platform Independent Scheduler Framework
Operating Systems (OS) Track
Christian René Sechting


Recommender Systems: Theory and Applications (RS) Track
Yong Zheng

Student Research Abstract: Android Malware Detection based on Kullback-Leibler Divergence
Computer Security (SEC) Track
Vanessa N. Cooper, Kennesaw State University, USA

Student Research Abstract: Interpreting Energy Profiles with CEGAR
Software Engineering Aspects of Green Computing(SEGC) Track
Steven te Brinke

Student Research Abstract: Demand Behavior Analysis and Coordination Scheduling for Energy Saving in Smart Building
Smart Grid and Smart Technologies (SGST) Track
Siyun Chen

Student Research Abstract: A Fault-Tolerant Architecture for Decentralized Compositions of Services in the Wild
Service-Oriented Architecture and Programming (SOAP) Track
Felipe Pontes Guimaraes

Student Research Abstract: Mechanisms to Ensure Quality of Service for the Internet of Things
Wireless Communications and Networking (WCN) Track
Rafael Perazzo Barbosa Mota

Student Research Abstract: Vehicle to Vehicle Communication using Zigbee Protocol
Wireless Communications and Networking (WCN) Track
Alfred Daniel

Student Research Abstract: An Optimized Handover Scheme based on Media Independent Handover Standard IEEE 802.21
Wireless Communications and Networking (WCN) Track
Murad Khan