IEEE/ACIS SNPD 2015
Conference Program
June 1 – June 3, 2015
Takamatsu, Japan
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# 16th IEEE/ACIS SNPD2015 Conference Program At A Glance

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Monday, June 1, 2015

8:15AM – 5:00PM   Registration   Foyer

9:30AM – 12:00AM   Session 1A   Data Mining and Machine Learning   Room 61A

Session Chair:

Extracting news content with visual unit of web pages
Wenhao Zhu, Song Dai, Yang Song and Zhiguo Lu

Extreme Learning Machines in the field of Text Classification
Rajendra Kumar Roul, Ashish Nanda, Viraj Patel and Sanjay Kumar Sahay

A Term Weighting Scheme Based on the Measure of Relevance and Distinction for Text Categorization
Jieming Yang, Jing Wang, Zhiying Liu and Zhaoyang Qu

An Efficient Multi Query System for Content Based Image Retrieval Using Query Replacement
Vimina E R, K Poulose Jacob, Ramakrishnan K and Navya Nandakumar

Incremental Max-Margin Learning for Semi-Supervised Multi-Class Problem
Taocheng Hu and Jinhui Yu

A Machine Learning Strategy for Predicting March Madness Winners
Gongzhu Hu

9:30AM – 11:35AM   Session 1B   Cryptography and Network Security I   Room 61B

Session Chair:

Trend of centralization in bitcoin’s distributed network
Alireza Beikverdi and Jooseok Song

Secure Object Tracking Protocol for Networked RFID Systems
Biplob Ray, Morshed Chowdhury and Jemal Abawajy

HBase Fine Grained Access Control with Extended Permissions and Inheritable Roles
Quan Qian and Yanyan Lai

Realization of FGAC Model using XACML Policy Specification
Muhammad Awais Shibli and Rahat Masood

Significant Frequency Range of Brain Wave Signals for Authentication
Preecha Tangkraingkij

9:30PM – 12:00AM   Session 1C   Internet Technology and Applications   Room 62

Session Chair:

Incorporating Trust Relationships in Collaborative Filtering Recommender System
Xiao Shen
Design and Evaluation of Database and API Supporting Shogi Learners on the Internet
Ryo Miura, Toshiki Kinuhata, Shinji Ohara, Hiroyuki Tarumi, Toshihiro Hayashi and Junko Ichino
Empowering patients using cloud based Personal Health Record System
Yeong-Tae Song, Sungchul Hone and Jinie Pak
Web Application Security Vulnerabilities Detection Approaches: a Systematic Mapping Study
Sajjad Rafique, Mamoona Humayun, Bushra Hamid and Ansar Abbas
The Application of Graph Algorithms: A Reference Mapping Tool
Simon Xu and Chunning Wang
A Sewage Outfall Management System Based on WebGIS: Design and Implement
Xiu Li, Zhuo Jia, Jin Yu and Zhixiong Yang

9:30PM – 12:00AM Session 1D  Special Session 1 I    Room 64
Analysis, Evaluation, and Usage of Web Information, System Behaviors, and Human Actions
Session Chair:
A new algorithm for m-closest keywords query over spatial web with grid partitioning
Yuan Qiu, Tadashi Ohmori, Takahiko Shintani and Hideyuki Fujita
Document Similarity Computation by Combining Multiple Representation Models
Jiyi Li, Toshiyuki Shimizu and Masatoshi Yoshikawa
Design and Evaluation of Automated Scoring Java Programming Assignments
Yuki Akahane, Hiroki Kitaya and Ushio Inoue
Simple Models Characterizing the Cell Dwell Time with a Log-Normal Distribution
Naoshi Sakamoto
A Study of Pupil Detection and Tracking by Image Processing Techniques for a Human Eye-Computer Interaction System
Yoshihiro Mitani
Emotional Scene Retrieval from Lifelog Videos Using Evolutionary Feature Creation
Hiroki Nomiya and Teruhisa Hochin

12:00AM – 1:00PM Lunch on your own

1:00PM – 1:30PM Opening Ceremony Room 61A&B

1:30PM – 2:30PM Keynote Address I Room 61A&B
Session Chair:
Dissimilarity and Retrieval of Time-Varying Data Towards Big Data Analysis
Professor Teruhisa Hochin
Ph.D. Kyoto Institute of Technology, Japan
2:30PM – 2:50PM  Coffee Break  Foyer

2:50PM – 3:50PM  Keynote Address II  Room 61A&B
Session Chair:
Empowering Patient Through Personal Healthcare System Using Interoperable Electronic Health Record

*Dr. Yeong-Tae Song*

*Ph.D. Towson University, USA*

4:00PM – 8:30PM  Excursion and Welcome Reception  TBA

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**Tuesday, June 2, 2015**

8:15AM – 5:00PM  Registration  Foyer

9:20AM – 11:50AM  Session 2A  Distributed Computing  Room 61A
Session Chair:

Cold Data Eviction Using Node Congestion Probability for HDFS based on Hybrid SSD

*Hee Yong Youn, Nayoung Park, Byungjun Lee and Kyung Tae Kim*

Multicast-based Replication for Hadoop HDFS

*Jiadong Wu and Bo Hong*

Reducing Mobile Device Energy Consumption with Computation Offloading

*Hao Qian*

Multithreading MAS for real time scheduling

*Daria Kazanskaia, Yaroslav Shepilov, Daria Pavlova and Valerii Novikov*

Load Balancing of P2P MMORPG Systems with Hierarchical Area-of-Interest Management

*Satoshi Fujita*

Development of Scaling Mechanism for Distributed Web System

*Akihiko Horiuchi and Keizo Saisho*

9:20AM – 11:50AM  Session 2B  Neural Networks & Genetic Algorithms  Room 61B
Session Chair:
Advance Quantum based Binary Neural Network Learning Algorithm

Om Prakash Patel and Aruna Tiwari

A Genetic Clustering Technique for Anomaly-Based Intrusion Detection Systems

Belhadj Aissa Naila and Guerouni Mohamed

Hybrid Evolutionary Algorithms for Data Classification in Intrusion Detection Systems

Abdel-Rahman Hedar, Mohammed Adel, Ahmed Al-Sadek and Adel Abuelmagd Sewissy

Rough Sets Attribute Reduction Using an Accelerated Genetic Algorithm

Abdel-Rahman Hedar, Ahmed Al-Sadek, Mohamed Omer and Adel Sewissy

GT- kernelPLS: Game theory based hybrid gene selection method for microarray data classification

Adnan Shakoor, Qinke Peng, Shiquan Sun, Xiao Wang and Jia Lv

Complex brain network of patients with epilepsy using cascading failure analysis of fMRI data

Ke Ming, Duan Xiaoxin, Yang Xiaoping and Zhang Fan

9:20AM – 11:25AM Session 2C Artificial Intelligence I Room 62

Session Chair:

Bayesian Network and Response Surface Methodology for Prediction and Improvement of Bacterial Metabolite Production

Lobna Bouchaala, Saoussen Ben Khedher, Hela Mezghanni, Nabil Zouari and Slim Tounsi

Applying Data Mining Techniques To Predict Annual Yield Of Major Crops And Recommend Planting Different Crops In Different Districts In Bangladesh Cooperative e-Learning


Analysis and Classification of Respiratory Health Risks with Respect to Air Pollution Levels

Ruhul Amin Dicken, S.A.M Fazle Rubby, Sheefta Naz, A. M. Arefin Khaled, Shuvo Ashish Rahman, Sharmina Rahman and Mohammad Rashedur Rahman

Knowledge Mining for Cognitive Agents Through Path based Forward Checking

Tarek Taha, Tanvir Atahary, Fredrick Webber and Scott Douglass

High Performance Declarative Memory Systems through MapReduce

Mark Edmonds, Tanvir Atahary, Scott Douglass and Tarek Taha

9:20AM – 11:00AM Session 2D Special Session 2 Room 64

Service and Management based on ICT

Session Chair:

Improvement of Multiple CP/CPS based on Level of Assurance for Campus PKI Deployment

Shigeaki Tanimoto, Toshihiko Moriya, Hiroyuki Sato and Atsushi Kanai

Risk Assessment of Social-media Utilization in an Enterprise

Shigeaki Tanimoto, Kenichi Ohata, Shoichi Yoneda, Motoi Iwashita, Yosiaki Seki, Hiroyuki Sato and Atsushi Kanai

Architecture for Wide Area Appliance Management

Arata koike and Ryota Ishibashi
Service and billing management method of interactive communication services

Motoi Iwashita and Shigeaki Tanimoto

11:50AM – 12:50PM  Lunch on your own

12:50PM – 2:05PM  Session 3A  Mobile/Wireless/Ad-Hoc Networks I  Room 61A

Session Chair:
Quality of Service Based Cross Layer Routing Protocol for VANETs
Sabih Ur Rehman, Muhammad Arif Khan, Tanveer Ahmed Zia and Muhammad Jafer
Flood Sensing Framework by Arduino and Wireless Sensor Network in Rural-Rwanda
Vianney Vunabandi, Ryuji Matsunaga, Sandor Markon and Willy Nsabiyumva
An Energy Efficient and Optimal Randomized Clustering for Wireless Sensor Networks
Kyung Tae Kim, Manyun Kim, Ji Hyeon Choi and Hee Yong Youn

12:50PM – 2:05PM  Session3B  Cryptography and Network Security II  Room 61B

Session Chair:
Power Analysis for Clock Fluctuation LSI
Yusuke Nozaki and Masaya Yoshikawa
Portable Parallelized Blowfish Via RenderScript
Spencer Davis, Brandon Jones and Hai Jiang
Improvement of an ID-based Proxy Signature Scheme Without Trusted PKG
Limin Sha

12:50PM – 2:05PM  Session3C  Artificial Intelligence II  Room 62

Session Chair:
A Variety Weapons and Armors Design Algorithm for Role-Playing Games
Jung-Ying Wang
Application of improved core vector machine in the prediction of algal blooms in Tolo Harbour
Xiu Li, Jin Yu, Zhuo Jia and Huimin Wang
Video Gender Recognition Using Temporal Coherent Face Descriptor
Chun-Rong Huang, Wei-Cheng Wang, Ru-Yun Hsu and Li-You Syu

12:50PM – 2:05PM  Session3D  Special Session 1 II  Room 64

Session Chair:
Analysis, Evaluation, and Usage of Web Information, System Behaviors, and Human Actions
Method of Introducing Appropriate Respondents to Questions at Question-and-Answer Sites
Yuya Yokoyama, Teruhisa Hochin and Hiroki Nomiya
Effect of Color of a Character on Its Impression
Yui Nonomura, Teruhisa Hochin and Hiroki Nomiya

Fields for Efficient Analysis of Big Data
Teruhisa Hochin and Hiroki Nomiya

2:05PM – 3:20PM Coffee Break
Foyer

2:05PM – 3:20PM Poster Session
TBA

An Evaluation of Writeprint Matching Method to Identify the Authors of Thai Online Messages
Rangsipan Marukatat and Siravich Khongrod

Bidirectional Confidential with Bilateral Filter on Local Based Optical Flow for Image Reconstruction under Noisy Condition
Darun Kesrarat and Vorapoj Patanavijit

Graphic Models for the Recognition of Arabic continuous speech based Triphones modeling
Elyes Zarrouk, Yassine Benayed and Faiez Gargouri

Virtual Cloud Bank: An Architectural Approach for Intermediating Cloud Services
Youngmin An, Joonseok Park and Keunhyuk Yeom

BFC: High-Performance Distributed Big-File Cloud Storage Based On Key-Value Store
Nguyen Trung Thanh

Experimental Design of High Performance Non Volatile Main Memory Swapping using DRAM
Hirotaka Kawata and Shuichi Oikawa

Data Mining Techniques to Analyze the Reason for Home Birth in Bangladesh
Fahim Jawad, Tawsif Ur Rahman Choudhury, Ahmad Najeeb, Mohammed Faisal, Fariha Nusrat, Rubaiya Chamon Shamita and Mohammad Rashidur Rahman

Ziping Zhao and Xirong Ma

Revolutionizing the Afghan Educational Assessment Paradigm through ICT
Hamidullah Sokout, Samiullah Paracha, Mohammad Hanif Gharanai and Abdul Rashid Ahmadi

3:20PM – 4:35PM Session4A Operating System
Room 61A

Session Chair:

Considering Block Popularity in Disk Cache Replacement Scheme for improve Hit Ratio based on Solid State Drive
Yonjoong Ryou, Byungjin Lee, Sanghyun Yoo and Hee Yong Youn

Dynamic User-Level CPU allocation for Volunteer Computing in CFS-based scheduler environment
Krerk Piromsopa and Korakit Seemakhupt

NVM/DRAM Hybrid Memory Management with Language Runtime Support via MRW Queue
Gaku Nakagawa and Shuichi Oikawa
3:20PM –5:00PM Session 4C Special Session 3 Room 62

**Advanced Software -Theory and Applications**

Session Chair:

A Method of Ridge Detection in Triangular Dissections Generated by Homogeneous Rectangular Dissections

*Koichi Anada, Taiyou Kikuchi, Shinji Koka, Youzou Miyadera and Takeo Yaku*

A Model for the connectedness of stones in the game of Go

*Masafumi Sato, Koichi Anada and Masayoshi Tsutsumi*

A Method of Safe and Efficient Editing in Tabular Forms Using a Descriptive Grammar of Semantic Structures

*Hiroyuki Aoki, Lina Zhang, Yasuhiko Morimoto, Shoichi Nakamura and Youzou Miyadera*

A Formalization of Financial Statements with Heterogeneous Parts by Graph Grammars

*Koushi Anzai, Ken Yokota and Takeo Yaku*

3:20PM –5:00PM Session 4D Special Session 4 Room 64

**Theories of Software Quality Improvement**

Session Chair:

Test Case Selection Technique for Regression Testing Using Differential Control Flow Graphs

*Shun Akimoto, Rihito Yaegashi and Tomohiko Takagi*

Overview of Graphical Operational Profiles for Generating Test Cases of GUI Software

*Yuma Namba, Shun Akimoto and Tomohiko Takagi*

The Method to Create Test suite based on Operational Profiles for Combination Test of Status

*Hisashi Fukutake, Liang Xu, Ryota Watanabe, Tomohiko Takagi and Rihito Yaegashi*

Overview of a Place/Transition Net-Based Mutation Testing Framework to Obtain Test Cases Effective for Concurrent Software

*Tomohiko Takagi and Takuya Arao*

6:00PM – 8:00PM Conference Banquet and Award Presentation TBA

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**Wednesday, June 3, 2015**

8:15AM – 12:00AM Registration Foyer

9:30AM – 12:00AM Session5A Mobile/Wireless/Ad-Hoc Networks II Room 61A

Session Chair:

Nuzli Mohamad Anas, Faiz Kamil Hashim, Hafizal Mohamad, Mohd Hafiz Baharudin and Mohd Pazli Sulong

An Integrated Optimization Model for Wireless Access Point Deployment Construction, and Enhancement

Chen-Shu Wang and Shiang-Lin Lin

A Hybrid Communication Approach for Disaster Recovery System

Kultida Rojviboonchai, Tanapat Ruengsatra, Kulit Na Nakorn and Krerk Piromsopa

A Novel Approach to Maximize the Sum-Rate for MIMO Broadcast Channels

M. Arif Khan, Rafiql Islam and Morshed Chowdhury

On the Robustness of Measurement of Reliability Stopping Criterion in Turbo Iterative Decodings

Roslina Mohamad, Harlisya Harun, Makhfudzah Mokhtar, Wan Azizun Wan Adnan and Kaharudin Dimyati

Reducing Connection Failure in Mobility Management for LTE HetNet using MCDM Algorithm

Xianda Chen, Young Ho Suh, Seung Wan Kim and Hee Yong Youn

9:30AM – 11:35AM Session5B Parallel Computing I Room 61B

Session Chair:

Optimizing Strassen Matrix Multiply on GPUs

Mayez Al-Mouhamed and Ayaz Ul Hassan Khan

Evaluation of Global Synchronization for Iterative Algebra Algorithms on Many Core

Mayez Al-Mouhamed, Ayaz Ul Hassan Khan and Lutfi Firdous

A GPU-based pencil beam algorithm for dose calculations in proton radiation therapy

Georgios Kalantzis, Theodora Leventouri, Hidenobu Tachibana and Charles Shang

On the Accelerated Convergence of Genetic Algorithm Using GPU Parallel Operations

Chu-Hsing Lin, Jung-Chun Liu, Cheng-Chieh Li, Winston Lo

Data Layout Transformation For Structure Vectorization On SIMD Architectures

Peng-Yuan Li, Rong-Cai Zhao, Qing-Hua Zhang and Hai-Ning Yu

SIMD Vectorization of Nested Loop Based on Strip Mining

Jinlong Xu, Huihui Sun and Rongcai Zhao

9:30AM – 11:10AM Session5C Software Testing Room 62

Session Chair:

Test Oracles Based on Metamorphic Relations for Image Processing Applications

Tahir Jameel and Mengxiang Lin

A Chain Algorithm for Conformance Testing based on UIO Sequences

Weiwei Lin and Hongwei Zeng

Formal Verification of Internal Block Diagram of SysML for Modeling Real-Time System

Sajjad Ali, Muhammad Abdul Basit Ur Rahim and Fahim Arif

Test Suite Reduction for Mutation Testing Based on Formal Concept Analysis
9:30AM – 12:00AM Session 5D Special Session 5 Room 64

Bridging ICT and sophisticated education

Session Chair:

Web News Ranking for Elementary School Children based on Degree of SNS Users’ Attention and Popular Search Queries among Children
Kazuaki Ando and Shoya Tanaka

Proposal of Debate Assistant System for Improving the Ability of Externalization and Response in Conversation
Zhong Wei Xu and Yasuo Miyoshi

Development of the Creating System for Lecture Contents by Combining the Lecture Materials
Keima Kumano, Ryosuke Takata, Toshihiro Hayashi, Hiroshi Murai, Kazuhiro Uenosono and Rihito Yaegashi

A System which Manages Lecture Materials Using Meta Data of Lecture Materials
Ryosuke Takata, Keima Kumano, Ryo Oooka, Hiroshi Murai, Toshihiro Hayashi and Rihito Yaegashi

Active S-quiz: An Intelligent Educational System for Basic Knowledge Learning by Question-Posing
Toshihiro Hayashi, Shimpet Nakagawa, Takuya Kishimoto, Yuji Hirai, Kazuhiro Ura, Rihito Yaegashi, Hiroshi Murai and Hiroyuki Tarumi

A Study of Load-Balancing Strategy Based on Students’ Action on University Cooperative e-Learning
Hiroshi Murai, Kazuhiro Ura, Norifumi Suehiro, Rihito Yaegashi, Yoshiro Imai, Keizo Saisho and Toshihiro Hayashi

12:00AM – 1:00PM Lunch on your own

1:00AM – 2:40AM Session 6A Cloud Service Room 61A

Session Chair:

Improving Hypervisor based SSD Caching with Logically Partitioned Blocks and Scanning in Cloud Environment
Hee Jung Park, Kyung Tae Kim, Byung Jun Lee, Rhee Man Kil and Hee Yong Youn

Performance Analysis of Various VM Placement Strategies in CloudSim
Mohammad Rashedur Rahman, Mohammad Raihan Mahmud and Mohammed Rashid Choudhury

Various “aaS” of Everything as a Service
Yucong Duan, Xiaobing Sun and Yuan Cao

Perceived Fairness on Service Recovery Satisfaction and on Positive Behavioral Intentions in Cloud Service
Ravipa Larpasiri and Montri Lawkobkit

1:00PM – 3:05PM Session 6B Parallel Computing II Room 61B

Session Chair:

Accelerating the Pre-processing Stages of JPEG Encoder on a Heterogeneous System using OpenCL
Nasser Alqudami and Shin-Dug Kim
An Abelian Group Model of Commutative Data Dependence Relations for the Iteration Space Slicing
Hong Yao and Huifang Deng

On solving the container problem in a hypercube with bit constraint
Antoine Bossard and Keiichi Kaneko

A Simulation Study of Heuristic Node Reordering for Collective I/O
Kwangho Cha and Sungho Kim

MPDBS: A Multi-level Parallel Database System Based on B-Tree
Lei Yu, Ge Fu, Yan Jin, Xiaojia Xiang, Huaiyuan Tan, Hong Zhang, Xinran Liu and Xiaobo Zhu

1:00PM – 2:40PM Session6C Software Specification & Architecture Room 62

Session Chair:

A Software Binding Application Tool based on the Orthogonal Variability Description Language for Software Product Line Development
Gyeongmin Go, Sungwon Kang and Jongsun Ahn

Software Integration in Global Software Development: Success Factors for GSD Vendors
Muhammad Ilyas and Siffat Ullah Khan

Toward Conceptual Representation of Patterns
Sabah Al-Fedaghi and Mohamad Almutairy

Survivability Prediction of Web System Based On Log Statistics
Huakou Miao, Jiaan Zhou, Jinyu Kai and Honghao Gao

1:00PM – 3:05PM Session6D Algorithms Room 64

Session Chair:

Algorithms for Removing Node Overlaps with Some Basis Nodes
Noboru Abe, Hiroaki Oh and Kouhei Inoue

Spatial decision support system for distribution networks
Takwa Tlili and Saoussen Krichen

A computational study on different penalty approaches for constrained optimization in radiation therapy treatment planning with a simulated annealing algorithm
Georgios Kalantzis, Theodora Leventouri, Charles Shang, Sadegh Mohammadi and Zoubir Ouhib

Research on Mid-long Term Load Forecasting based on Combination Forecasting Model
Yao Min, Zhao Min and Xiao Hui

A comparision of driving behaviour prediction algorithm using multi sensory data on smartphone
Thunyasit Pholprasit, Worasit Choochaiwattana and Chalermpol Saiprasert
Future Conferences Information

IEEE/ACIS SNPD 2016
17th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing
May 30 - June 1, Shanghai, China

IEEE/ACIS ICIS 2016
15th IEEE/ACIS International Conference on Computer and Information Science
June 27-30, 2016, Okayama, Japan

IEEE/ACIS SERA 2016
14th ACIS International Conference on Software Engineering Research, Management and Applications
Baltimore, USA

ACIS CSI 2016 & ACIT 2016
4th International Symposium on Applied Computing and Information Technology
3rd International Symposium on Computer Science and Intelligence
Date and Venue: TBA

ACIS Journals Information

International Journal of Networked and Distributed Computing (IJNDC)
IJNDC is a world-class international journal and will be indexed in SCI shortly.

International Journal of Software Innovation (IJSI)
IJSI is a world-class international journal and will be indexed in EI shortly.

International Journal of Computer & Information Science (IJCIS)
IJCIS is an official publication of ACIS and is indexed in Inspec.