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Dale Jarman, Central Michigan University, USA
### 16th IEEE/ACIS SNPD2015 Conference Program

#### At A Glance

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<td>Session 1B Cryptography and Network Security I</td>
<td>Session 1C Internet Technology and Applications</td>
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<td>1:30PM – 2:30PM</td>
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<td>Keynote Address II: Yeong-Tae Song, Ph.D. Towson University, USA</td>
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<td>9:20AM – 11:50AM</td>
<td>Session 2A Distributed Computing</td>
<td>Session 2B Neural Networks &amp; Genetic Algorithms</td>
<td>Session 2C Artificial Intelligence I</td>
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<td>11:50AM – 12:50PM</td>
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<td>12:50PM – 2:05PM</td>
<td>Session 3A Mobile/Wireless/Ad-Hoc Networks I</td>
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<td>9:30AM – 12:00AM</td>
<td>Session 5A Mobile/Wireless/Ad-Hoc Networks II</td>
<td>Session 5B Parallel Computing I</td>
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<td>1:00PM – 3:05PM</td>
<td>Session 6A Cloud Service</td>
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<td>Session 6C Software Specification &amp; Architecture</td>
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8:15AM – 5:00PM  Registration  Foyer

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

Session Chair: Gongzhu Hu

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, Ramakrishnan K, Poulose Jacob 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
Jordan Gumm, Andrew Barrett and Gongzhu Hu

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

Session Chair: Quan Qian

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, Jemal Abawajy and Monika Jesmin

HBase Fine Grained Access Control with Extended Permissions and Inheritable Roles
Yan-yan Lai and Quan Qian

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

Significant Frequency Range of Brain Wave Signals for Authentication
Preecha Tangkraingkij

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

Session Chair: Simon Xu

Incorporating Trust Relationships in Collaborative Filtering Recommender System
Xiao Shen, Haixia Long and Cuihua Ma
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
Chunning Wang, Shaochun Xu, Lichao Chen and Jiayu Li

A Sewage Outfall Management System Based on WebGIS: Design and Implement
Xiu Li, Zhuo Jia, Jin Yu and Zhixiong Yang

9:30AM – 12:00AM Session 1D Special Session 1 I Room 63
Analysis, Evaluation, and Usage of Web Information, System Behaviors, and Human Actions
Session Chair: Teruhisa Hochin

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
Ryo Shimata, Yoshihiro Mitani and Tsumoru Ochiai

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: Gongzhu Hu

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
   Session Chair: Huaikou Miao
   Room 61A&B

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

Tuesday, June 2, 2015

8:15AM – 5:00PM   Registration
   Foyer

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

Cold Data Eviction Using Node Congestion Probability for HDFS based on Hybrid SSD
Nayoung Park, Byungjun Lee, Kyung Tae Kim and Hee Yong Youn

Multicast-based Replication for Hadoop HDFS
Jiadong Wu and Bo Hong

Reducing Mobile Device Energy Consumption with Computation Offloading
Hao Qian and Daniel Andresen

Multithreading MAS for real time scheduling
Yaroslav Shepilov, Daria Pavlova, Daria Kazanskaia 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: Ken'ichi Fujimoto

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 Gueroumi 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, Mohamed Adel Omer and Adel A. Sewisy

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, Zhang Fan and Yang Xiaoping

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

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
A.T. M Shakil Ahamed, Navid Tanzeem Mahmood, Nazmul Hossain, Mohammad Tanzir Kabir, Kallal Das, Faridur Rahman and Mohammad Rashedur Rahman

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
Tanvir Atahary, Tarek Taha, Fredrick Webber and Scott Douglass

High Performance Declarative Memory Systems through MapReduce
Mark Edmonds, Tanvir Atahary, Tarek Taha and Scott Douglass

9:20AM – 11:00AM Session 2D Special Session 2 Room 63
Session Chair: Motoi Iwashita

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: Kazuaki Ando

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 Nsabiyumva Willy

An Energy Efficient and Optimal Randomized Clustering for Wireless Sensor Networks
Kyung Tae Kim, Man Youn Kim, Ji Hyeon Choi and Hee Yong Youn

12:50PM – 2:05PM  Session 3B  Cryptography and Network Security II  Room 61B

Session Chair: Masaya Yoshikawa

Power Analysis for Clock Fluctuation LSI
Yusuke Nozaki, Toshiya Asai, Kensaku Asahi 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  Session 3C  Artificial Intelligence II  Room 62

Session Chair: Chun-Rong Huang

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
Wei-Cheng Wang, Ru-Yun Hsu, Chun-Rong Huang and Li-You Syu

12:50PM – 2:05PM  Session 3D  Special Session 1 II  Room 63

Analysis, Evaluation, and Usage of Web Information, System Behaviors, and Human Actions
Session Chair: Ushio Inoue

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
Session Chair: Kazuaki Ando

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
Joonseok Park, Youngmin An and Keunhyuk Yeom

BFC: High-Performance Distributed Big-File Cloud Storage Based On Key-Value Store
Thanh Trung Nguyen, Tin Khac Vu and Minh Hieu Nguyen

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 Rashedur Rahman

Ziping Zhao and Xirong Ma

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

3:20PM – 4:35PM        Session 4A          Operating System          Room 61A
Session Chair: Hee Yong Youn

Considering Block Popularity in Disk Cache Replacement Scheme for improve Hit Ratio based on Solid State Drive
Yonjoong Ryou, Byungjun 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: Koichi Anada

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 63
Theories of Software Quality Improvement
Session Chair: Tomohiko Takagi

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 Fukatake, 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

Wednesday, June 3, 2015

8:15AM – 12:00AM Registration Foyer

9:30AM – 12:00AM Session 5A Mobile/Wireless/Ad-Hoc Networks II Room 61A
Session Chair: M. Arif Khan

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

A Novel Approach to Maximize the Sum-Rate for MIMO Broadcast Channels
M. Arif Khan, Rafiqul Islam and Morshed Chowdhury
9:30AM – 12:00AM  Session5B  Parallel Computing I  Room 61B
Session Chair: Antoine Bossard

Optimizing Strassen Matrix Multiply on GPUs
Ayaz Ul Hassan Khan, Mayez Al-Mouhamed and Allam Fatayer

Evaluation of Global Synchronization for Iterative Algebra Algorithms on Many Core
Ayaz Ul Hassan Khan, Mayez Al-Mouhamed 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 and Winston Lo

Data Layout Transformation For Structure Vectorization On SIMD Architectures
Peng-Yuan Li, Qing-Hua Zhang, Rong-Cai Zhao and Hai-Ning Yu

SIMD Vectorization of Nested Loop Based on Strip Mining
Jinlong Xu, Huibui Sun and Rongcai Zhao

9:30AM – 11:10AM  Session5C  Software Testing  Room 62
Session Chair: Hongwei Zeng

Test Oracles Based on Metamorphic Relations for Image Processing Applications
Tahir Jameel, Mengxiang Lin and Liu Chao

A Chain Algorithm for Conformance Testing based on UIO Sequences
Weisi 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
Liping Li and Honghao Gao

9:30AM – 12:00AM  Session5D  Special Session 5  Room 63
Session Chair: Naka Gotoda

Bridging ICT and sophisticated education

Web News Ranking for Elementary School Children based on Degree of SNS Users' Attention and Popular Search Queries among Children
Shoya Tanaka and Kazuaki Ando
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 Ooka, Hiroshi Murai, Toshihiro Hayashi and Rihito Yaegashi

Active S-quiz: An Intelligent Educational System for Basic Knowledge Learning by Question-Posing
Toshihiro Hayashi, Shimpei 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

1:00PM – 2:40PM   Session 6A  Cloud Service  Room 61A
Session Chair: Yucong Duan
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
Study and Performance Analysis of Various VM Placement Strategies
Mohammad Rashedur Rahman, Mohammad Raihan Mahmud and Mohammed Rashid Choudhury
Various “aaS” of Everything as a Service
Yucong Duan, Yuan Cao and Xiaobing Sun
Perceived Fairness on Service Recovery Satisfaction and on Positive Behavioral Intentions in Cloud Service
Montri Lawkobkit and Ravipa Larpasiri

1:00PM – 2:40PM   Session6B  Parallel Computing II  Room 61B
Session Chair: Keizo Saisho
On solving the container problem in a hypercube with bit constraint
Antoine Bossard and Keiichi Kaneko
An Abelian Group Model of Commutative Data Dependence Relations for the Iteration Space Slicing
Hong Yao and Huifang Deng
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 Session 6C Software Specification & Architecture Room 62

Session Chair: Huaikou Miao

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
Jiaan Zhou, Huaikou Miao, Jinyu Kai, Kun Zhao and Honghao Gao

1:00PM – 3:05PM Session 6D Algorithms Room 63

Session Chair: Toshihiro Hayashi

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
Sadegh Mohammadi, Charles Shang, Zoubir Ouhib, Theodora Leventouri and Georgios Kalantzis

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

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.