3rd ACIS International Conference on Computational Science/Intelligence and Applied Informatics
(CSII 2016)
1st ACIS International Conference on Big Data, Cloud Computing and Data Science (BCD 2016)

December 12-14, 2016
Las Vegas, USA

CSII 2016 Technical Program

Monday, Dec 12, 2016
Location: University of Nevada, Las Vegas (UNLV)

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<td>8:00 – 9:00</td>
<td>Registration</td>
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<tr>
<td>9:00 – 9:20</td>
<td>Opening Ceremony</td>
<td>Student Union 208</td>
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<td>Prof. Roger Lee, CEO, ACIS, ACIT2016/CSII 2016/BCD 2016 General Chair</td>
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<td>Prof. Gongzhu Hu, President, ACIS</td>
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<td></td>
<td>Prof. Naohiro Ishii, SCII 2016 Conference Chair</td>
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<td>Prof. Juyeon Jo, BCD 2016 Conference Chair</td>
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<tr>
<td>9:20 – 10:20</td>
<td>First Keynote Address</td>
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<td>10:20 – 10:40</td>
<td>Coffee Break</td>
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<td>10:40 – 11:40</td>
<td>Second Keynote Address</td>
<td>Student Union 208</td>
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<td>11:50 – 12:50</td>
<td>Luncheon on your own</td>
<td>Food court is on the first floor of the Student Union</td>
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<td>12:50 – 14:50</td>
<td>Session B 1</td>
<td>Student Union 213</td>
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**Applied Intelligent Knowledge Systems for Informatics (I)**
*Session Chair: Nobuhiro Ito (Aichi Institute of Technology, Japan)*

On Pattern Generating Methods for Incremental Learning by Chaotic Neural Network
Toshinori Deguchi, Naohiro Ishii
Effort Estimation for Embedded Software Development Projects by Combining Machine Learning with Classification
Kazunori Iwata, Toyoshiro Nakashima, Yoshiyuki Anan, Naohiro Ishii

Problem Solving with Interactive Theorem-Proving - A Case Study
Sivasis Jaishy, Nobuhiro Ito, Yoshinobu Kawabe

On Computer-Assisted Verification of Timed Anonymity of Multi-Agent Systems
Yoshinobu Kawabe, Nobuhiro Ito

A 3D visualization display system for the RoboCupRescue Simulation competition
Masahiro Yamamoto, Nobuhiro Ito, Kazunori Iwata, Tsuyoshi Matsukawa, Yoshiyuki Kozuka

14:50 – 15:10 Coffee Break Foyer

15:10 – 17:10 Session B 2 Student Union 213

Applied Intelligent Knowledge Systems for Informatics (II)
Session Chair: Ippei Torii (Aichi Institute of Technology, Japan)

Development of Monitor System for Dry Eye Symptom
Emi Aihara, Ippei Torii, Naohiro Ishii

Increasing Concentration with Neurofeedback
Shunsuke Kawatake, Ippei Torii, Naohiro Ishii

Development of Communication Tool for Physically Handicapped with Involuntary Movements by Line-of-Sight Detection
Takahiro Niwa, Ippei Torii, Naohiro Ishii

Development of Evacuation Guiding System for Earthquake Disaster
Ippei Torii, Takumi Niwa, Naohiro Ishii

Measurement of Ocular Movement Abnormality in Pursuit Eye Movement (PEM) of Autism Spectrum Children with Disability
Ippei Torii, Kaoruko Ohtani, Naohiro Ishii

17:30 – 19:00 Award Presentation (Dinner Banquet) Student Union 208
Tuesday, Dec 13, 2016  
**Location:** University of Nevada, Las Vegas (UNLV)

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<td>Registration</td>
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<td>8:00 – 10:00</td>
<td><strong>Session B 3</strong></td>
<td><strong>Student Union 213</strong></td>
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<td></td>
<td><strong>Computational Intelligence for Informatics</strong></td>
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<td><strong>Session Chair:</strong> Kazunori Iwata (Aichi University, Japan)</td>
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<td></td>
<td>Characterization of Nearest Neighbor Relation Based on Boolean Reasoning and Covex Cones</td>
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<td>Naohiro Ishii, Ippei Torii, Kazunori Iwata, Kazuya Odagiri, Toyoshiro Nakashima</td>
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<td>Functional Evaluation of the Cloud Type Virtual Policy Based Network Management Scheme for the Common Use between Plural Organizations</td>
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<td>Kazuya Odagiri, Shogo Shimizu, Naohiro Ishii</td>
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<td>An Evaluation of BAR: Breakdown Agent Replacement algorithm for SCRAM</td>
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<td>Shivashish Jaishy, Yoshiki Fukushige, Kazunori Iwata, Nobuhiro Ito, Yoshinobu Kawabe</td>
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<td>Big Streaming Data Buffering Optimization</td>
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<td>Abhilash Kancharla, Jongyeop Kim, Noh-Jin Park, Nohpill Park</td>
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<td>Behavior-based Memory Resource Management for Container-based Virtualization</td>
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<td>Gaku Nakagawa, Shuichi Oikawa</td>
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<td>8:00 – 10:00</td>
<td><strong>Session C3</strong></td>
<td><strong>Student Union 207</strong></td>
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<td><strong>BCD 2016</strong></td>
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<td><strong>Data Science, Computing and Mining</strong></td>
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<td><strong>Session Chair:</strong> Weimin Li (Shanghai University, China)</td>
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<td>Fuzzy Multi-Keyword Query on Encrypted Data in the Cloud</td>
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<td>Xiujin Shi, Shengping Hu</td>
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<td>Research on Data Mining and Electronic Commerce Information Push Application Based on PMML</td>
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<td>Peipei Wang, Jiulei Jiang</td>
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<td>A Study of Heuristically-based Parametric Performance Improvement/Optimization Algorithms for BigData Computing</td>
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<td>Jongyeop Kim, Nohpill Park, Noh-Jin Park</td>
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<td>10:00 – 10:20</td>
<td><strong>Coffee Break</strong></td>
<td>Foyer</td>
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<td>10:20 – 12:20</td>
<td><strong>Session B 4</strong></td>
<td><strong>Student Union 213</strong></td>
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New Technology for Applied Informatics
Session Chair: Tokuro Matsuo (Advanced Institute of Industrial Technology, Japan)

ENHANCED CAMERA CAPTURING USING OBJECT-DETECTION-BASED AUTOFOCUS ON SMARTPHONES
Liang Peng

Issues with Path Representation in Transition Systems
Pei He, Yi Zheng

A Novel Model of Convention Management Research and Business Process
Tokuro Matsuo, Takanobu Otsuka, Tetsuya Oishi, Rieko Fujita, Takayuki Ito, Akihisa Sengoku, Shun Shiramatsu, Naoki Fukuta, Katsuhide Fujita, Hidekazu Iwamoto

Asymmetric Neural Networks with Gabor Filters
Naohiro Ishii¹ Toshinori Deguchi, Masashi Kawaguchi, Hiroshi Sasaki

Concept of the QOS Control Method on the Data Mining in the VDACS Scheme for the Common Use between Plural Organizations
Kazuya Odagiri, Shogo Shimizu, Naohiro Ishii

12:20 – 13:20 Lunch on your own
Food court is on the first floor of the Student Union

13:20 – 15:20 Session B 5 Student Union 213

Computational Intelligence (I)
Session Chair: Simon Xu, (Algoma University, Canada)

Analysis of Reliability and Validity of Teaching Evaluation Index System
Tong Wang

An Improved Dynamic Load-balancing Model
Di Liu, Wenqian Shang, Ligu Zhu,

Contour Extraction and Vectorization Algorithm for Paper-cut Pattern
Muzi Sun, Minyong Shi, Honglei Han

The Implementation of Crawling News Page Based On Incremental Web Crawler
Zejian Shi, Minyong Shi, Weiguo Lin

A Users Clustering Algorithm for Group Recommendation
Chen Zhang, Jing Zhou

Recommendation Engine for Online Short Video
Nan Yang, Sanxing Cao, Yu Liang

A Music Identification System Based on Audio Fingerprint
Yong Fan, Shuang Feng

Research on Evaluation Method of Big Data Storage Utilization
Yang Xiaoshan, Zhu Ligu, Zhang Qicong, Feng-Dongyu

Research on a visualization interaction method
Lu Jiang, Xiaohong Wang, Ligu Zhu

An Improved Video Recommendations Based on the Hyperlink-Graph Model
Songtao Shang, Wenqian Shang, Shuchao Feng, Minyong Shi

15:20 – 15:40 Coffee Break Foyer

15:40 – 17:40 Session B 6 Student Union 213

Computational Intelligence (II)
Session Chair: Naohiro Ishii (Aichi Institute of Technology, Japan)

Art Exam Scores Analysis and Visualization
Yakir Wang, Minyong Shi, Chunfang Li, Weiguo Lin

Application of Fisheye View in Temporal Spiral Visualization
Chengcheng Wang, Ligu Zhu, Di Zhang

CTMC-based Availability Analysis of Multiple Cluster Systems with Common Mode Failure
Zhiguo Hong, Minyong Shi, Yongbin Wang

DTMC-Based Performance Evaluation of Animation Rendering Node
Zhiguo Hong, Yongbin Wang, Minyong Shi

Influence of Ungated Residential Community on Traffic Condition of Surrounding Roads
Li Yuping, Chen Ning, Liu Yingli

Mechanical Analysis of Basketball's Movement Trajectory after its Shooting Action
Tian Cheng

Study on Blasting Effect on Tailings Pond
Zhang Yuanyuan

Research on Collaborative Filtering Recommendation Algorithm Based on Mahout
Yongchang Wang, Ligu Zhu

Influence Effect of International Capital Flow on China’s Economic Growth
Xianhong Xu, Cheng Tian, Jinnuo Zhang
Thanks for Your Participation!

See You All at ACIT2017, CSII 2017 & BCD 2017 in Hamamatsu, Japan, Next Year!