The 4th International Conference on Advanced Information Technologies (ICAIT 2020) Program

Day 1: November 4, 2020 (Wednesday)

8:30-9:00	**Online Reception** Opportunity for a camera and microphone test
9:00-9:35	**Opening Ceremony** Opening Speech by Union Minister of MoE Opening Remark by Chairman of NEPC Welcome Speech by the Rector, UIT ICAIT 2020 Program Committee Report by PC Chair
9:35-9:40	ICAIT 2020 Photo Session
9:40-10:00	**BREAK**

Session 1-1: 10:00-11:40
Theme: Computational Intelligence & AI-I **Chair: Prof. Yoshinori Kuno**
Effect of QoS Control for Cooperative Work between Remote Robot Systems with Force Feedback (#20001) **Kazuya Kanaishi**, Yutaka Ishibashi, Pingguo Huang, Yuichiro Tateiwa
Understanding Non-native English Speakers' Perceptions of Voice User Interfaces with and without a Visual Display: A Usability Study (#20015) **Aung Pyae**, Swe Zin Hlaing, Nyein Thwet Thwet Aung, Nang Mo Mo Kham, Myo Myo Khant, Min Khant Kyaw
Statistical Machine Translation, Ripple Down Rules and Hidden Markov Model for Burmese Romanization (#20035) **Wint Theingi Zaw**, Ye Kyaw Thu, Shwe Sin Moe, Nyein Nyein Oo, Thepchai Supnithi
Informational Analysis of Go, Part 2: Zuozi and Huanqitou (#20053) **Wu Yicong**, Chang Liu, Mohd Nor Akmal Khalid, Hiroyuki Iida
11:40-13:00   LUNCH BREAK

Session 1-2: 10:00-11:40
Theme: Big Data & Blockchain Technologies **Chair: Prof. Khin Mar Soe**
CIMLA: Checkpoint Interval Message Logging Algorithm in Kafka Pipeline Architecture (#20004)
Thandar Aung, Hla Yin Min, Aung Htein Maw
Blockchain Based Digital Identity Management System: A Case Study of Myanmar (#20007)
May Htet, Phyo Thet Yee, Jay R. Rajasekera
Semantic Layer Construction for Big Data Integration (#20058)
Nang Kham Soe, Tin Tin Yee, Ei Chaw Htoon
Performance Evaluation of M/D/1 Queuing Model on Hyperledger Fabric (#20059)
Khin Su Su Wai, Ei Chaw Htoon, Nwe Nwe Myint Thein
11:40-13:00   LUNCH BREAK

Session 2-1: 13:00-14:40
Theme: Simulation and Modeling in Software Approach **Chair: Prof. Win Zaw**
Multi-Criteria Decision Analysis in Urban Transport System by applying Function Resonance Analysis Method (#20016)
Shin Mon Phyo, Swe Zin Hlaing, Myint Myint Lwin
Prediction of Natural Gas Final Consumption using Artificial Neural Networks (#20024)
Khaing Su Yin, Su Su Htay
Predicting Customer Class using Customer Lifetime Value with Random Forest Algorithm (#20047)
Than Than Win, Khin Sundee Bo
Trend Extraction from High Dimensional Stock News based on Markov Chain (#20050)
Ei Thwe Khaing, Myint Myint Thein, Myint Myint Lwin

Session 2-2: 13:00-14:40
Theme: NLP & Machine Learning   **Chair: Prof. Win Pa Pa**
Myanmar Sign Language Classification using Deep Learning (#20020)   **Sai Myo Htet**, Bawin Aye, Myo Min Hein
Comparison of Supervised Machine Learning Models for Categorizing E-Commerce Product Titles in Myanmar Text (#20061)   **Khin Yee Mon Thant**, Khin Thandar Nwet
Multi-Aspect Attention Model for Aspect-based Sentiment Classification using Deep Learning (#20063)   **Win Lei Kay Khine**, Nyein Thwet Thwet Aung
Increasing SMT and NMT Performance by Corpus Extension with Free Online Machine Translation Services (#20065)   **Zar Zar Hlaing**, Ye Kyaw Thu, Thepchai Supnithi, Ponrudee Netisopakul

14:40-15:25   Keynote Speech
Cyber-Physical Spaces: A challenge for Software Engineering
Dr. Carlo Ghezzi
Emeritus Professor, DEIB-Politecnico di Milano, Italy
Chair: Prof. Koichiro Ochimizu
15:25-15:40   BREAK

Session 3-1: 15:40-17:20
Theme: Distributed and Cloud Computing **Chair: Prof. Khine Moe Nwe**
Analysis of Intersection Traffic Light Management System in Mandalay City (#20008)
Ei Ei Moe, Tin Maung Wynn, May Zin Oo, Nay Min Htaik
Resource Aware Placement of IoT Devices in Fog Computing (#20017)
Khin Nandar Tun, Aye Myat Myat Paing
EAC: Encryption Access Control Scheme for Policy Revocation in Cloud Data (#20033)
Phyo Wah Wah Myint, Swe Zin Hlaing, Ei Chaw Htoon
Improved Job Scheduling for Achieving Fairness on Apache Hadoop YARN (#20067)
Thet Hsu Aung, Wint Thida Zaw

Session 3-2: 15:40-17:20
Theme: Database Technology and Data Mining **Chair: Prof. Nang Sai Moon Kham**
Grape Leaf Diseases Classification using Convolutional Neural Network (#20018)
Khaing Zin Thet, Khine Khine Htwe, Myint Myint Thein
An Improvement of Apriori Mining Algorithm Using Linked List Based Hash Table (#20036)
Zin Mar, Khine Khine Oo
Enhancement of Query Execution Time in SPARQL Query Processing (#20038)
Khin Myat Kyu, Aung Nway Oo
Combination of ARMA and BPNN Model to predict Rice Type and Rice Price (#20043)
Thura Zaw, Aung Nway Oo, Swe Swe Kyaw

The 4th International Conference on Advanced Information Technologies (ICAIT 2020) Program

Day 2: November 5, 2020 (Thursday)

8:30-9:00	**Online Reception** Opportunity for a camera and microphone test
9:00-9:45	**Invited Talk 1** Supports to Remote Robots by Humans with Force Feedback Prof. Yutaka Ishibashi Nagoya Institute of Technology, Nagoya, Japan Chair: Prof. Hiroyuki Iida
9:45-10:30	**Invited Talk 2** Artificial Intelligence in Signal Processing Prof. Tetsuya Shimamura Saitama University, Japan Chair: Prof. Hiroyuki Iida

Session 4-1: 10:30-12:10
Theme: Computational Intelligence & AI-II **Chair: Prof. Yutaka Ishibashi**
Element Fill-in-Blank Problems in Python Programming Learning Assistant System (#20012) **Hsu Wai Hnin**, Khin Khin Zaw
Attractiveness of Single-Agent Game: Case Study Using Sliding Puzzle (#20039) **Chang Liu**, Shunqi Huang, Mohd Nor Akmal Khalid, Hiroyuki Iida
Analysis of Jump & Jump Game and Its Possible Enhancement (#20051) **Hong Ri**, Mohd Nor Akmal Khalid, Hiroyuki Iida
Analysis of Single-Agent Game: Case Study Using Minesweeper (#20052) **Wu Tingting**, Huang Shunqi, Htung Pa Pa Aung, Mohd Nor Akmal Khalid, Hiroyuki Iida
12:10-13:30   LUNCH BREAK

Session 4-2: 10:30-12:10
Theme: Computer Vision and Image Processing **Chair: Assoc. Prof. Komuro Takashi**
Task Distribution Method for Index Classification Based on Color Segmentation in Remote Sensing (#20027)
Yan Naing Htun, Bawin Aye, Aung Aung
An Effective Trespasser Detection System using Video Surveillance Data (#20028)
Wine Myat Chal, Khine Thin Zar
Feature Based Human Activity Recognition using Neural Network (#20031)
Win Myat Oo, Bawin Aye, Myo Min Hein
Vision Based Vehicle Information Inspection System Using Deep Learning (#20032)
Kyaw Min Han, Bawin Aye, Hlaing Moe Than, Chan Pyae Linn
Eigenface based Facial Expression Recognition (#20066)
Hla Myat Maw, Soe Myat Thu, Myat Thida Mon
12:35-13:30   LUNCH BREAK

Session 5-1: 13:30-15:10
Theme: Advanced Network Systems and Security **Chair: Assoc. Prof. Ling Teck Chaw**
Comparative Analysis of Video Streaming in Software Defined Networking (#20054)
Hla Myo Su, Aung Htein Maw
Flow based Traffic Scheduling in Software Defined Network (#20062)
Ohmmar Min Mon, Myat Thida Mon
An Investigation of Delay-guaranteed Mechanism in Wi-Fi Networks with Multiple Traffic Flows (#20068)
Hiroaki Motohashi, Kien Nguyen, Hiroo Sekiya
Enhancing Secure Digital Communication Media Using Cryptographic Steganography Techniques (#20069)
Bo Bo Oo, May Thu Aung

Session 5-2: 13:30-15:10
Theme: Communication and Digital Signal Processing **Chair: Prof. Tetsuya Shimamura**
A GUI based Self-learning Tool for Polar Codes using Successive Cancellation and List Decoders (#20010)
Rafee Al Ahsan, Sunita Khichar, Watid Phakphisut, Lunchakorn Wuttisittikulkij, Audsadang Ngamjob, Pruk Sasithong, Ambar Bajpai, Muhammad Saadi, Amir Parnianifard, Irfan Ullah, May Pyone Han, Wai Phyo, Pisit Vanichchanunt
Analysis on Ground Clutter Mitigation Using IIR Filter and Frequency Domain Filters for C-Band Phased Array Weather Radar (#20014)
Hnin Pwint Phyu, Kyaw Soe Lwin, Twe Ta Oo, Pwint Thu Aung
An Enhanced RSS Fingerprinting-based Wireless Indoor Positioning using Random Forest Classifier (#20040)
Nyein Aye Maung Maung, Baby Yaw Lwi, Soe Thida
Regions of Interest (ROI) Analysis for Upper Limbs EEG Neuroimaging Schemes (#20046)
Khin Pa Pa Aung, Khin Htar Nwe