ABOUT THE CONFERENCE

The International Conference on Information Technology and Digital Applications (ICITDA) is an international forum for the exchange of ideas, knowledge, and experience on the latest developments in the field of information technology and digital applications among researchers from academia, engineers, and practitioners from industries. The conference is also expected to enable opportunities for collaboration among the participants to advance the theory and practice in the field of information technology.

The ICITDA 2019 is organized by Universitas Islam Indonesia (Yogyakarta, Indonesia).

Papers on original works are solicited on a variety of topics including, but not limited to, the following tracks and topics:

A. Applications
   1. Digital Forensics and Security
   2. Educational Technology
   3. Internet of Things
   4. Medical Informatics
   5. Multimedia

B. Hard Science and Engineering
   1. Computer Networks and Wireless Communication
   2. Computer Vision and Pattern Recognition
   3. Intelligent System/Artificial Intelligence

C. Software Engineering
   1. Data Mining and Analysis
   2. Databases and Information Systems
   3. Human Computer Interaction
   4. Information Theory
   5. Software Systems

All accepted papers of ICITDA 2019 will be published in the online proceeding. The online proceeding is a part of conference series of IOP Publication, which will be indexed by Scopus, EI-Compendex, and Inspec.
Prof. Hai Jin is a Professor of Computer Science and Engineering at the Huazhong University of Science and Technology (HUST) in China. He is now the Dean of School of Computer Science and Technology at HUST. He received his Ph.D. in computer engineering from HUST in 1994. In 1996, he was awarded German Academic Exchange Service (DAAD) fellowship for visiting the Technical University of Chemnitz in Germany. He worked for the University of Hong Kong between 1998 and 2000 and participated in the HKU Cluster project. He worked as a visiting scholar at the University of Southern California between 1999 and 2000. He is the chief scientist of the largest grid computing project, ChinaGrid, in China. Dr. Jin is a senior member of IEEE and member of ACM. He is the member of Grid Forum Steering Group (GFSG). His research interests include computer architecture, cluster computing and grid computing, virtualization technology, peer-to-peer computing, network storage, network security. Contact him at hjin@hust.edu.cn.
Dr. Vijanth S. Asirvadam is from an old mining city of Malaysia called Ipoh. He studied at University of Putra, Malaysia in Bachelor Science(Hon) majoring in Statistics and graduated in April 1997 before leaving to Queen’s University Belfast to do his Masters where he received his Master’s Science in Engineering Computation with a Distinction. He later joined the Intelligent Systems and Control Research Group at Queen’s University Belfast in November 1999 where he completed his Doctorate (Ph.D.) researching into Online and Constructive Neural Learning methods. He took previous employments as a System Engineer and later as a Lecturer at the Multimedia University Malaysia. He was also a Senior Lecturer at Faculty of Engineering and Computer Technology, AIMST University. Since November 2006, he served as a Senior Lecturer and later as Associate Professor at the department of Electrical and Electronics Engineering, Universiti Teknologi PETRONAS. His research interest in theory includes linear and nonlinear system identification and model validation. On application side he research into computing techniques in signal, image and video processing. Dr Vijanth is member of Institute of Electrical and Electronics Engineering (IEEE) and also a member of Institute of Engineering Technology (IET). He has over 100 publications in proceedings and journals in the field of computational intelligence, control, signal and image processing. He is a member of IEEE for
Day 01: November 15, 2019

PROGRAMME
07:30 AM - 17:00 AM
(IRIS ROOM, 3rd FLOOR)

07:30 AM - 08:00 AM  REGISTRATION

08:00 AM - 08:15 AM  OPENING PRAYER

NATIONAL ANTHEM

OPENING REMARKS
Fathul Wahid, S.T., M.Sc., Ph.D.
Rector of Universitas Islam Indonesia

08:15 AM - 08:30 AM  WELCOMING SPEECH
Taufiq Hidayat, S.T., M.C.S.
Chairman of the Committee
ICITDA 2019
Universitas Islam Indonesia

08:30 AM - 08:15 AM  MORNING BREAK

08:45 AM - 09:00 AM  PERFORMANCE
KEYNOTE SPEECH 1:
“EVENING OUT THE BOTTLENECKS FOR TODAY’S BLOCK CHAIN SYSTEMS”
09:00 AM - 10:00 AM

Prof. Hai Jin
Huazhong University of Science and Technology

KEYNOTE SPEECH 2:
“CAMERA PLACEMENT BASED ON RISK MAPS”
10:00 AM - 11:00 AM

Dr. Vijanth S. Asirvadam
Universiti Teknologi PETRONAS

11:00 AM - 11:30 AM  ANNOUNCEMENT OF PARALLEL SESSION

AWARDING OF BEST PAPER

PHOTO SESSIONS

11:30 AM - 13:00 PM  LUNCH BREAK
PARALLELL SESSION 1
13:00 PM - 15:00 PM

ROOM 1 (IRIS ROOM, 3rd FLOOR)

“The Potential of Designing a Digital Payment Framework for Philippine HEIs”
Desiree I. Cendana

“Designing a Mobile Application Framework as an Innovative IT Solution for Waste Recycling”
Ma.Melanie Ablaza-Cruz

“e-LAHOK: An e-Participatory Platform for Disaster Risk Reduction and Management”
Jennifer L. Llovido

“Temperature and Humidity Monitoring System in Broiler Poultry Farm”
Irving Vitra Paputungan

Jamaica M. Dioquino

“Usability Analysis With Webuse Model In Information System Design In Monitoring Child Growth And Development”
Kurniawan Teguh Martono

15:00 PM - 15:30 PM   AFTERNOON BREAK
PARALLELL SESSION 2
15:30 PM - 17:00 PM

ROOM 1 (IRIS ROOM, 3rd FLOOR)

“Development and Usability Evaluation on Individualized Reading Enhancing Application for Dyslexia (IREAD): A Mobile Assistive Application”
Michael Angelo Patelo Burac

“Usability Evaluation for User Interface Design of Student Support System: Mixed Method Study”
Ahmed Alsadi

“Efficacy of Virtual Reality in Reducing Fear of Public Speaking: A Systematic Review”
Myle Melody Daniels

“Semantic Web in Disaster Management: A Systematic Literature Review”
Teduh Dirgahayu

“Dual Security System for Room Access Control Using RFID at Islamic University of Indonesia (UII)”
Bayu Aprilananda Sujatmoko

“Design and Implementation Network Administrators Account Management System Based on Authentication, Authorization, and Accounting using TACACS and LDAP Protocols”
Ardelia Puri Paramitha
PARALLELL SESSION 1
13:00 PM - 15:00 PM

ROOM 2 (MAGNOLIA ROOM, 3rd FLOOR)

“Deep Residual U-Net Based Lung Image Segmentation for Lung Disease Detection”
Eusebio L. Mique, Jr.

“The Identification System of Acne Type on Indonesian People’s Face Image”
Annisa Rositasari

“Classifying Wastes Using Random Forests, Gaussian Naïve Bayes, Support Vector Machine and Multilayer Perceptron”
Ibrahim Fabaan Hanbal

“Predicting Macronutrient of Baby Food using Near-infrared Spectroscopy and Deep Learning Approach”
Masyithah Nur Aulia

“Orange Fruit Images Classification using Convolutional Neural Networks”
Dhiya Mahdi Asriny

“Design and Implementation of Retail Product Assortment System with Private Label Considerations and Weighted Apriori”
Auliasa Enlina
PARALLELL SESSION 2
15:30 PM - 17:00 PM

ROOM 2 (MAGNOLIA ROOM, 3rd FLOOR)

“Blood Glucose Prediction Model for Type 1 Diabetes based on Extreme Gradient Boosting”
Ganjar Alfian

“Forecasting and Pattern Analysis of Philippine Regions’ Palay and Corn Production”
Michelle M. Cortez

“In-store Customer Shopping Behavior Analysis by Utilizing RFID-enabled Shelf and Multilayer Perceptron Model”
Ganjar Alfian

“Establishing the Syntactic Rules of the Kankanaey Dialect using RNN”
Ibrahim Fabaan Hanbal

“Establishing the Syntactic Rule of the Kankanaey Dialect using TensorFlow”
Jan Jefferson Lam
PARALLELL SESSION 1
13:00 PM - 15:00 PM

ROOM 3 (HELICONIA ROOM, 3rd FLOOR)

“Design considerations of a collaborative and knowledge sharing tool for a sustainable outcomes-based education”
Dario H. Galeon

“Customizing Academic Knowledge Management System Architecture Framework based on Enterprise Architecture”
Daniel E. Maligat Jr.

“Web-based Knowledge Management System for Camarines Norte State College”
Daniel E. Maligat Jr.

“Recommending Tourism Destination using Collaborative Filtering”
Ahmad Fathan Hidayatullah

“Populating Databases Automatically with Realistic Data Using Metadata-Driven Methods”
Jeniffer Arroyo

“Knowledge Management System (KMS) Framework for Outcomes-based Education Sustainability”
Dario H. Galeon
15:00 PM - 15:30 PM   AFTERNOON BREAK

PARALLELL SESSION 2
15:30 PM - 17:00 PM

ROOM 3 (HELICONIA ROOM, 3rd FLOOR)

“Design and Development of Data Warehouse Framework of Highland Vegetable Crops for Benguet”
Anna Rhodora Quitaleg

“Improving Inland Aquaculture: A WBIS Perspective”
Alexy Gene B. Castillo

“Sentiment Analysis on Twitter using Neural Network: Indonesian Presidential Election 2019 Dataset”
Ahmad Fathan Hidayatullah

“Data Augmentation on Spontaneous Indonesian Automatic Speech Recognition using Statistical Machine Translation”
Patrick Nugroho Hadiwinoto

“Automation Process to Support an Information System on Extreme Weather Warning”
Mamad Tamamadin

“Web enabled GIS Platform for Agricultural Land Use”
Gemma G. Acedo
PARALLEL SESSION 1
13:00 PM - 15:00 PM

ROOM 4 (LAVENDER ROOM, 3rd FLOOR)

“Game Design Principles for Learning Philippine History”
Reynold A. Rustia

“A Gamified Approach on Learning Logic Gates to Improve Student’s Engagement”
Jocelyn O. Torio

“LaroLexia: A Mobile Game-Based E-Learning System for Filipino Dyslexic Children”
Rosemarie T. Bigueras

“Adoption Pattern of Online Classroom in Blended Learning: Case Study of Higher Education”
Yunizar Fahmi

“Technology-Assisted Learning in Enhancing Students’ Literacy Skills”
Dessy Dwi Yudha Santhi

“Mobile Devices and Mobile Apps Use among Indonesian College Students”
Ahmad R. Pratama
PARALLELL SESSION 2
15:30 PM - 17:00 PM

ROOM 4 (LAVENDER ROOM, 3rd FLOOR)

“Development of an Augmented Reality Mobile Application to Enhance the Pedagogical Approach in Teaching History”
Aida F. Elivera

“Flipped Learning in Information Technology Courses: Effectiveness and Impact”
Annissa Kurniasari

“LogIO: An Adaptive Gamification Learning Approach on Digital Logic Gates”
Jocelyn O. Torio

“DysGBES: A Framework for Building Game-Based E-Learning System for Dyslexic Children”
Rosemarie T. Bigueras

“Implementing an ETL-driven Data Integration Framework for State Universities and Colleges”
Lorna T. Soriano
PARALLELL SESSION 2
15:30 PM - 17:00 PM

ROOM 5 (CARNATION ROOM, 3rd FLOOR)

“Estimating the Widespread Use of Braindump Sites by Students in an E-Learning Assessment Environment”
Natividad B. Concepcion

“Hybridization of Genetic Algorithm and Artificial Immune System for Assignment Problem”
La Ode Muhammad Farhan F.

“Disaster Sentiment Analysis: Addressing the Challenges of Decision Makers in Visualizing Netizen Tweets”
Rufo Baro

“Document Tracking and Monitoring of Expenses for State Universities and Colleges Responsibility Units”
Joni Neil B. Capucao

“A Model of Computation-based Naming System for Musical Elements of Java Traditional Song”
Arry Maulana Syarif
PARALLELL SESSION 1
13:00 PM - 15:00 PM

ROOM 5 (CARNATION ROOM, 3rd FLOOR)

“A Procurement Data Standard Tool for State Universities and Colleges”
Floradel S. Relucio

“Web-based System for State Universities and Colleges Budget Office Management”
Joni Neil B. Capucao

“Convolutional Neural Network Acoustic Model for Robust Indonesian Speech Recognition in Noisy Environment”
Marvin Jerremy Budiman

“Investigating the Dunning-Kruger Effect Among Students within the Contexts of a Narrative-centered Game-based Learning Environment”
Arnel Ocay

“Achieving metacognitive instruction through Adaptive Blended Learning Environment”
Lambert P. Famorca

“Determining the Usage Feasibility of Battery for Disaster Mitigation Devices Using Fuzzy Inference with Tsukamoto”
Sabri Kurniadi
Day 02: November 16, 2019

PROGRAMME
08:00 AM - 17:00 AM

08:00 AM
DEPART FROM EASTPARC HOTEL

08:30 AM - 13:00 PM
RAFTING IN ELO RIVER, MAGELANG

13:00 PM - 14:00 PM
LUNCH IN MAGELANG

14:00 PM - 15:00 PM
GO TO RAMINTEN SOUVENIR SHOP

15:00 PM - 16:30 PM
SHOPPING

16:30 PM - 17:00 PM
BACK TO EASTPARC HOTEL
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Taufiq Hidayat
Hendrik
Ahmad R. Pratama
Hari Setiaji
Fayruz Rahma
Moh. Idris

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