Program

Time	Ballroom	Melaka Suite	Pahang Suite	Penang Suite	Selangor Suite
Wednesday, July 24					
08:00-08:30	Participants Registration				
08:30-09:00	Arrival of VIPs and Guests				
09:00-09:05	Welcoming Remarks by General Chair & Co-Chair of ICoICT 2019				
09:05-09:25	Opening Speech by President of Multimedia University				
09:25-09:30	Video Presentation				
09:30-09:35	Souvenir Presentation				
09:35-10:15	Photo Session and Refreshment				
10:15-10:30	ICoICT 2020 Presentation				
10:30-11:45	Keynote Speech #1				
11:45-13:00	Keynote Speech #2				
13:00-14:00	Lunch Break				
14:00-15:15	Keynote Speech #3				
15:15-15:30	Afternoon Coffee Break				
15:30-16:30	Tutorial Session #1				
16:30-17:30	Tutorial Session #2				
20:00-22:30	Gala Dinner				
Thursday, July 25					
08:00-09:00	Participants registration				
09:00-10:20	Tutorial Session	1C: Image Analysis and Recognition	1B: Information Analysis	1D: Intelligent Systems	1A: Predictive Analytics
10:30-12:50	2A: Neural Computing	2D: Human Factor and Usability	2C: Healthcare and Well-being	2E: Biometrics and Security Systems	2B: Smart Living
13:30-15:30	3A: Social Media Analytics	3D: Machine and Sensor	3C: Text Mining and Classification	3E: Human Machine Interface	3B: Network Analysis
15:30-17:10	4A: System Modeling	4D: Data Sources and Management	4C: Algorithm Analysis	4E: Text and Sentiment Analysis	4B: Machine Learning and Prediction
Friday, July 26					
08:30-10:10					5A: General

Wednesday, July 24 8:00 - 8:30

Participants Registration

Wednesday, July 24 8:30 - 9:00

Arrival of VIPs and Guests

Wednesday, July 24 9:00 - 9:05

Welcoming Remarks by General Chair & Co-Chair of ICoICT 2019

Wednesday, July 24 9:05 - 9:25

Opening Speech by President of Multimedia University

Prof. Datuk Ts. Dr. Ahmad Rafi Mohamed Eshaq

Wednesday, July 24 9:25 - 9:30

Video Presentation

Wednesday, July 24 9:30 - 9:35

Souvenir Presentation

Wednesday, July 24 9:35 - 10:15

Photo Session and Refreshment

Wednesday, July 24 10:15 - 10:30

ICoICT 2020 Presentation

Wednesday, July 24 10:30 - 11:45

Keynote Speech #1

Convergence of Big Data and Artificial Intelligence for Big Biology

We are witnessing an exciting era of data explosion in biology where biological data from various data sources is growing at an exponential rate. This is 26 years after Donald Knuth's statement, "Biology easily has 500 years of exciting problems to work on", in an interview with Computer Literacy Bookshops (CLB) on 7th December 1993. There is now demand for new approaches and techniques to organize, manage, and analyze this massive amount of biological data. At the same time, Artificial Intelligence is emerging as a vital method for data analytics. In this talk, we present the convergence of big data and artificial intelligence, and how both technologies are poised to solve the challenges in Big Biology.

Wednesday, July 24 11:45 - 13:00

Keynote Speech #2

Data-driven QoS and QoE Management in Smart Cities

Communication and information are the basis of smart city development. This talk is about the real-time management of communication performance for smart cities that have a vast number of networking nodes and services. I will focus on both QoS and QoE, and discuss the challenges in guaranteeing such performance by analyzing the characteristics of smart city communication networks. The opportunity of employing data to automatically manage QoS/QoE perforamnce will be presented.

Wednesday, July 24 13:00 - 14:00

Lunch Break

Wednesday, July 24 14:00 - 15:15

Keynote Speech #3

Machine Learning for Business Intelligence

Business intelligence has gone from static reports that tell you what happened, to interactive dashboards where you can drill into information to try and understand why it happened. New big data sources, including Internet of Things (IoT) devices, are pushing businesses from those reactive analytics whether you look back once a month to spot trends or once a day to check for problems to proactive analytics that give you alerts and real-time dashboards. Large organizations use machine learning to reveal patterns and turn information into insights to help them make faster and accurate business decisions.

This talk will cover how machine learning is used in business intelligence applications nowadays, such as churn prediction and product recommendation.

Wednesday, July 24 15:15 - 15:30

Afternoon Coffee Break

Wednesday, July 24 15:30 - 16:30

Tutorial Session #1

Aesthetics-driven Image Recomposition: From Classic to Deep Vision

With the rapid advancement and adoption of mobile and digital imaging technology, almost everyone is now a photographer. According to Agence France Presse (AFP) report, 880 billion photographs were taken in 2014, and 27,800 photos/minute and 208,300 photos/minute, are uploaded to Instagram, and Facebook respectively. With the large amount of photos being captured and shared on social media, there is a growing interest in aesthetics quality improvement. One aspect of photography that contributes to high quality photos is image composition; the spatial arrangement of photo subjects in the image frame. Professional photographers often apply a wealth of photographic composition rules, i.e., rule of thirds, visual balance and simplicity to capture compelling photos. However, casual photographers may not have the knowledge of taking good photos and often find their photos unsatisfying. This fosters the need for aesthetics-driven recomposition tools that can assist them to enhance the aesthetics of their poorly-taken photos with ease.

Earlier works of image recomposition aim to produce resulting images that mimic professional photographs by employing optimization-based techniques that are guided by selected photographic composition techniques / rules. Moving forward, researchers then adopt the learning-based approach to learn an image recomposition model using traditional machine learning algorithms. More recently, with the introduction of generative networks, image recomposition can now be performed in an end-to-end manner, whereby an aesthetics prediction model acts as a discriminator to guide a generator network to produce resulting images with higher aesthetics appeal. This tutorial commence with the formulation of the image recomposition problem, followed by the chronological development of the image recomposition research; from the classic approaches that utilize optimization and traditional machine learning to deep vision approaches that employ convolutional neural network and generative network. The tutorial will conclude with the discussion on the challenges and opportunities in aesthetics-driven image recomposition.

Wednesday, July 24 16:30 - 17:30

Tutorial Session #2

Smart Contract Security

It is vital to ensure smart contracts running on blockchains are secure and trustworthy. In this talk, I will first talk about security issues of smart contracts. I will then demonstrate automated security testing tools used for analysing vulnerabilities in smart contracts.

Wednesday, July 24 20:00 - 22:30

Gala Dinner

Thursday, July 25 8:00 - 9:00

Participants registration

Thursday, July 25 9:00 - 10:15

Tutorial Session

Starting and Building a Career With Malware Analysis

Chang draws on his working experience both as a line analyst and a manager to shed light on what malware analysis is and what someone interested in the field needs to know. He will also set the stage and context with an overview of the current threat landscape.

Thursday, July 25 9:00 - 10:20

1A: Predictive Analytics

Predicting Staple Food Materials Price Using Multivariables Factors (Regression and Fourier Models with ARIMA)

Said Fadlan Anshari (Telkom University & Informatic Faculty, Indonesia); Putu Harry Gunawan and Yanti Rusmawati (Telkom University, Indonesia)

pp. 1-5

Smart Shopping Prediction on Smart Shopping With Linear Regression Method

Maman Abdurohman, Aji Gautama Putrada Satwiko and Medina Diani Nastiti (Telkom University, Indonesia)

pp. 6-11

The Causality Effect on Vector Autoregressive Model: The Case for Rainfall Forecasting

Aniq Atiqi and Putu Harry Gunawan (Telkom University, Indonesia)

pp. 12-16

Hypnagogia based Smart Alarm System using PIR Sensors

Maman Abdurohman, Aji Gautama Putrada Satwiko and Fitrah Nusantara (Telkom University, Indonesia)

pp. 17-21

1B: Information Analysis

Financial Network Approach for Modeling about Company Bankruptcy

Jorgie B Permana and Yanti Rusmawati (Telkom University, Indonesia); Muhammad Arzaki (Telkom University & Computing Lab - ICM Research Group, Indonesia)

pp. 22-29

A check nodes correction approximate min-sum decoding algorithm for LDPC

Ruizhen Wu (Intel Mobile Communications Technology (Xi'an) Ltd, P.R. China); Lin Wang, Tao Yuan and Xiaoyong Zhang (Intel Mobile Communications Technology (Xi'an) Ltd, P.R. China)

pp. 30-34

Real-time Screen Sharing Using Web Socket for Presenting Without Projector

Irfan Darmawan (Telkom University, Indonesia); Alam Rahmatulloh and Rohmat Gunawan (Siliwangi University, Indonesia)

pp. 35-40

Enterprise Architecture for the Fire Rescue Services

Natasha Manick and Ashvin Appigadoo (University of Mauritius, Mauritius); Bibi Zarine Cadersaib (University of Mauritius & Reduit, Mauritius)

pp. 41-46

1C: Image Analysis and Recognition

1D: Intelligent Systems

Thursday, July 25 10:30 - 12:30

2A: Neural Computing

Increasing Accuracy of Power Consumption using Artificial Neural Network
Maman Abdurohman, Aji Gautama Putrada Satwiko and Arry Syukur (Telkom University, Indonesia)
pp. 92-97

Generating Image Description on Indonesian Language using Convolutional Neural Network and Gated Recurrent Unit
Aditya Alif Nugraha (Telkom University, Indonesia); Anditya Arifianto (Telkom University & Artificial Intelligence Laboratory, ICM Research Group, Indonesia); Suyanto Suyanto (Telkom University, Indonesia)
pp. 98-103

A cross model Telco Industry Financial Distress Prediction in Indonesia: Multiple Discriminant Analysis, Logit and Artificial Neural Network
Hariadi Kristianto and Brady Rikumahu (School of Economics and Business, Telkom University, Indonesia)
pp. 104-108

Prediction of Agriculture and Mining Stock Value Listed in Kompas100 Index Using Artificial Neural Network Backpropagation
Meizir Zubir Rajab (Telkom University, Indonesia); Brady Rikumahu (School of Economics and Business, Telkom University, Indonesia)
pp. 109-113

Artificial Neural Network for Indonesian Tourism Demand Forecasting
Andry Alamsyah (Telkom University & School of Economics and Business, Indonesia); Putu Friscintia (Telkom University, Indonesia)
pp. 114-120

Gait Recognition Using Deep Convolutional Features
Pa Pa Min (Multimedia University, Malaysia)
pp. 121-125

Thursday, July 25 10:30 - 12:50

2B: Smart Living

Indoor Air Quality Monitoring and Controlling System based on IoT and Fuzzy Logic
Nico Surantha and Fadli Pradityo (Bina Nusantara University, Indonesia)
pp. 126-131

Communication Learning User Interface Model for Children with Autism with the Goal-Directed Design Method
Danang Junaedi, Fitrilia Susanti and Veronikha Effendy (Telkom University, Indonesia)
pp. 132-137

Passenger Vehicle Avoidance Time Model For Connected And Autonomous Vehicles
Azizul Rahman (Universiti Sains Malaysia, Malaysia)
pp. 138-143

Smart Light Recommending System Using Artificial Neural Network Algorithm
Maman Abdurohman, Aji Gautama Putrada Satwiko and Muchammad Ferdian Akbar (Telkom University, Indonesia)
pp. 144-148

Smart Living Society begins with A Holistic Digital Economy: A Multi-Level Insight
Mei Peng Low (Lot PT 21144 Jln Sg Long & UTAR, Malaysia); Chay Yoke Chung, Leng Yean Ung, Peck Ling Tee and Thiam Yong Kuek (UTAR, Malaysia)
pp. 149-155

Elderly Action Recognition System with Location and Motion Data
Nour Eddin Tabbakha (Multimediuniversity, Malaysia); Chee Pun Ooi and Wooi Haw Tan (Multimedia University, Malaysia)

pp. 156-160

Water Filter Automation System Using Fuzzy Logic Controller

Bayu Erfianto (TELKOM University & School of Computing, Indonesia); Aji Gautama Putrada Satwiko (Telkom University, Indonesia)

pp. 161-166

Thursday, July 25 10:30 - 12:30

2C: Healthcare and Well-being

Implementing Principal Component Analysis and Multinomial Logit for Cancer Detection based on Microarray Data Classification

Azka Khoirunnisa, A Adiwijaya and Aniq Atiqi (Telkom University, Indonesia)

pp. 167-172

Artificial Intelligence based prediction of seizures for Epileptic Patients: IoT based Cost effective Solution

Talha Ahmed Khan (Universiti KualaLumpur, Malaysia)

pp. 173-177

A DASH Diet Recommendation System for Hypertensive Patients Using Machine Learning

Romeshwar Sookrah, Jaysree Dhowtal and Soulakshmee D. Nagowah (University of Mauritius, Mauritius)

pp. 178-183

Virtual Screening of RanBP9 Inhibitors in Alzheimer's disease

Han Jieh Tey (Multimedia University, Malaysia); Han Chong Ng (Senior Lecturer, Multimedia University, Malaysia); Thong Leng Lim (Multimedia University, Malaysia)

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Mobile Edge Computing based Mixed Reality Application for the Assistance of Blind and Visually Impaired People

Arifa Akter, Anik Islam and Soo Young Shin (Kumoh National Institute of Technology, Korea)

pp. 189-193

Disease Propagation Prediction using Machine Learning for Crowdsourcing Mobile Applications

Leckraj Nagowah, Pratima Kurtah and Yusrah Takun (University of Mauritius, Mauritius)

pp. 194-199

2D: Human Factor and Usability

"Do I Really Need to Use a Lock Screen?": An Evaluation of Indonesian Smartphone Users

Ari Kusyanti and Harin Puspa Ayu Catherina (Universitas Brawijaya, Indonesia)

pp. 200-206

Text Segmentation Based on Word Embedding on Indonesian Quran Translation by Greedy with Window Approaching

Arief Fatchul Huda (Universitas Islam Negeri Bandung & Telkom University, Indonesia); Ramdani Ramdani and Moch Arif Bijaksana (Telkom University, Indonesia)

pp. 207-211

Online Tools for Collaborative Learning to Enhance Students Interaction

Wan Nur Tasnim Wan Hussin (Universiti Teknologi Malaysia, Malaysia); Jamalludin Harun (Fakulti Pendidikan, Universiti Teknologi Malaysia, Malaysia); Nurbiha A Shukor (Universiti Teknologi Malaysia, Malaysia)

pp. 212-216

The Use of Modified UTAUT 2 Model to Analyze the Continuance Intention of Travel Mobile Application

Indrawati Indrawati and Firda Amalia (Telkom University, Indonesia)

pp. 217-222

The Usability factors of lost Digital Legacy data from regulatory misconduct: older values and the issue of ownership

David Cook, Derani Dissanayake and Kulwinder Kaur (Edith Cowan University, Australia)

pp. 223-228

2E: Biometrics and Security Systems

Thursday, July 25 13:30 - 15:10

3A: Social Media Analytics

Online Political Engagement using Twitter among Malaysian Parliamentary Members

Kamarul Faizal Hashim (University of Dubai, United Arab Emirates); Muhammad Othman (Universiti Utara Malaysia, Malaysia); Sami Miniaoui, SM (University of Dubai, United Arab Emirates); Zaheruddin Othman (Universiti Utara Malaysia, Malaysia); Shadi Atalla (University of Dubai & University of Dubai, United Arab Emirates); Solahuddin Ismail (Universiti Utara Malaysia, Malaysia)

pp. 274-278

Exploring Relationship between Headline News Sentiment and Stock Return

Andry Alamsyah (Telkom University & School of Economics and Business, Indonesia); Siska Ayu (Telkom University, Indonesia); Brady Rikumahu (School of Economics and Business, Telkom University, Indonesia)

pp. 279-284

The impact of social networks on technology entrepreneurs' opportunity recognition process

Yvonne L.E. Lee (Multimedia University, Malaysia); WeiLee Lim (UCSI University, Malaysia)

pp. 285-291

Competence Classification of Twitter Users Using the Support Vector Machine (SVM) Method

Erwin B. Setiawan and Muhammad Rifaldi (Telkom University, Indonesia)

pp. 292-297

Measuring Information Dissemination Mechanism on Retweet Network for Marketing Communication Effort

Andry Alamsyah (Telkom University & School of Economics and Business, Indonesia); Muhammad Rizqy Dwi Putra (Telkom University, Indonesia)

pp. 298-304

Thursday, July 25 13:30 - 15:30

3B: Network Analysis

On the Capacity of Full-Duplex Diamond Relay Networks Using NOMA

Mohammed Belal Uddin (Kumoh National Institute of Technology, Korea); Md Fazlul Kader (University of Chittagong, Bangladesh); Soo Young Shin (Kumoh National Institute of Technology, Korea)

pp. 305-310

Quality of Service (QoS) Comparison Analysis of Snort IDS and Bro IDS Application in Software Define Network (SDN) Architecture

Muhammad Arief Nugroho, Hendrawan Hendrawan and Parman Sukarno (Telkom University, Indonesia)

pp. 311-317

Interest-based Epidemic Routing in Opportunistic Mobile Networks

Vittalis Ayu and Bambang Soelistijanto (Sanata Dharma University, Indonesia)

pp. 318-323

Delay and energy based message delivery in Delay Tolerant Networks

Babar Shah (Zayed University, United Arab Emirates); Ali Abbas (Middle East College, Oman); Muhammad Habib (GPG Jahanzeb College, Pakistan); Francis Chow (Zayed University, United Arab Emirates); Ki-Il Kim (Chungnam National University, Korea); Raza Hasan (Middle East College, Oman)

pp. 324-329

Development of Communication Technology on VANET with a Combination of Ad-hoc, Cellular and GPS Signals as a Solution Traffic problem

Faris Humam (Universitas Indonesia, Indonesia)

pp. 330-338

Outage Analysis of NOMA Exploited Coordinated Direct and Relay assisted Uplink Transmission
Jae Oh Kim, Mohammed Belal Uddin and Soo Young Shin (Kumoh National Institute of Technology, Korea)
pp. 339-344

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3C: Text Mining and Classification

Price Prediction of Chili in Bandung Regency using Support Vector Machine (SVM) Optimized with an Adaptive Neuro-Fuzzy Inference System (ANFIS)
Asma Hasifa Nurcahyono, Fhira Nhita, Deni Saepudin and Annisa Aditsania (Telkom University, Indonesia)
pp. 345-350

A Multi-label Classification on Topics of Quranic Verses (English Translation) Using Backpropagation Neural Network with stochastic gradient descent and adam optimizer
Nanang Saiful Huda, Mohamad Syahrul Mubarok and A Adiwijaya (Telkom University, Indonesia)
pp. 351-355

Reading Level System on Fairy Tale Stories for Children Using Dolch Sight Word Vocabulary with Majority Voting Algorithm
Alifa Nur Azzami, Dana Sulistyo Kusumo and Widi Astuti (Telkom University, Indonesia)
pp. 356-362

Analysis of the Word2Vec Model for Semantic Similarities in Indonesian Words
Louisten Novandi T Manalu, Moch Arif Bijaksana and Arie Suryani (Telkom University, Indonesia)
pp. 363-367

Clustering Synonym Set in English WordNet
Jentrisi Priyatno and Moch Arif Bijaksana (Telkom University, Indonesia)
pp. 368-371

3D: Machine and Sensor

Optimization of Tour Scheduling Using Firefly Algorithm
Akhmad Saifullah (School of Computing, Telkom University, Indonesia); Zk Abdurahman Baizal and Putu Harry Gunawan (Telkom University, Indonesia)
pp. 372-377

Toward GPU on CUDA for Simulating Non-hydrostatic Wave Model
Garda Khadafi (School of Computing, Telkom University, Indonesia); Putu Harry Gunawan (Telkom University, Indonesia)
pp. 378-384

Parallel Computation of Mac-Cormack Method for Simulating Nozzle Gas Flow
Agung Fajar Gumilar (School of Computing, Telkom University, Indonesia); Putu Harry Gunawan (Telkom University, Indonesia)
pp. 385-392

Implementing OpenMP platform for simulating erodible dam-break using SWE-Exner model
Cynthia Puspa Anggraeni and Quedi Zata Fakhrusy (School of Computing, Telkom University, Indonesia); Putu Harry Gunawan (Telkom University, Indonesia)
pp. 393-397

Air Transportation Network Robustness under Random and Hub-Based Disruptions
Andry Alamsyah (Telkom University & School of Economics and Business, Indonesia); Dian Ramadhani (Telkom University, Indonesia)
pp. 398-403

Thursday, July 25 13:30 - 14:50

3E: Human Machine Interface

Intelligent Monitoring and Controlling System for Hydroponics Precision Agriculture

Nico Surantha and Herman Herman (Bina Nusantara University, Indonesia)

pp. 404-409

Haversine Method and LoRa for Monitoring Entry of Fishing Vessel in Marine Protected Area

Francis Jerric Jabon Candido (Samar State University & University of San Carlos, Philippines); Rojay Flores (Batangas State University, Philippines); Percival Forcadilla (University of San Carlos, Philippines)

pp. 410-413

Design and Performance Investigation of Discrete Wavelet Transform (DWT) Based OFDM Using 4-PAM for Indoor VLC System

Enggar Fransiska Dwi Widyatama (Al Azhar Indonesia University, Indonesia); Octarina Nur Samijayani (University of Al Azhar Indonesia, Indonesia); Dwi Astharini (University of Indonesia, Indonesia); Suci Rahmatia (University of Al Azhar Indonesia, Indonesia); Dadang Gunawan (Universitas Indonesia, Indonesia)

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A Wireless Sensor Network for Fire Detection and Alarm System

Patrick Jason Y. Piera and Joseph Karl G. Salva (University of San Carlos, Philippines)

pp. 419-423

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4A: System Modeling

The Clustering Algorithms Approach for Decision efficiency in Investment Portfolio Diversification
Irma Palupi, Bambang Wahyudi and Indwiarti Indwiarti (Telkom University, Indonesia)
pp. 424-429

Simulating Water and Sediment Flow Using SWE-Convection Diffusion Model on OpenMP Platform
Quedi Zata Fakhrusy and Cynthia Puspa Anggraeni (School of Computing, Telkom University, Indonesia); Putu Harry Gunawan (Telkom University, Indonesia)
pp. 430-435

An Open Government Data Maturity Model: A Case Study in BPS-Statistics Indonesia
Miftahu Rahmatika, Dewi Krismawati and Sinta Rahmawati (Universitas Indonesia, Indonesia); Assaf Arief (University of Indonesia, Indonesia); Dana I. Sensuse (Universitas Indonesia, Indonesia); Muhammad Fadhil Dzulfikar (Universitas Indonesia & E-Government and E-Business Research Lab, Indonesia)
pp. 436-442

Computing UDCHR Scheme for simulating underwater sediment movement using OpenMP
Fadhil Lobma (School of Computing, Telkom University, Indonesia); Putu Harry Gunawan (Telkom University, Indonesia)
pp. 443-447

The MSOF-DTW Method for Checking Timeseries Similarities
Fazmah Arif Yulianto (Telkom University, Indonesia); Kuspriyanto Kuspriyanto and Richard Mengko (Institut Teknologi Bandung, Indonesia)
pp. 448-454

4B: Machine Learning and Prediction

Nonlinear Autoregressive Neural Network Models for Sea Level Prediction, Study Case: in Semarang, Indonesia
Didit Adytia (School of Computing, Telkom University, Indonesia); Miftahul Awali Rizkina (Telkom University, Indonesia); Nugrahinggil Subasita (NeXT Waves-ID, Indonesia)
pp. 455-459

Lung Sounds Classification Using Stacked Autoencoder and Support Vector Machine
Adnan Hassal Falah and Jondri Jondri (Telkom University, Indonesia)
pp. 460-464

IoT based Song Recognition for FM Radio Station Broadcasting
Murtadha Arif Bin Sahbudin (University Of Messina, Messina & MDSLab, Italy); Marco Scarpa and Salvatore Serrano (University of Messina, Italy); Chakib Chaouch (University of Messina, Messina, Italy)
pp. 465-470

The Particulate Matter Concentration Spatial Prediction using Interpolation Techniques with Machine Learning
Pattarapron Chuanchai (University of Chiang Mai, Thailand)
pp. 471-475

Two Stages Song Subject Classification on Indonesian Song Based on Lyrics, Genre & Artist
Rifqi Aziz, Moch Arif Bijaksana and A Adiwijaya (Telkom University, Indonesia)
pp. 476-481

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4C: Algorithm Analysis

Parallelization of Uniformization Algorithm with CUDA-Aware MPI
Lia Farhatuaini and Reza Pulungan (Universitas Gadjah Mada, Indonesia)
pp. 482-487

Constructing a One-time and a Few-time Digital Signature Schemes from the Hardness of Megrelishvili Vector-Matrix Problem

Muhammad Arzaki (Telkom University & Computing Lab - ICM Research Group, Indonesia)

pp. 488-495

Forecasting Portfolio Optimization using Artificial Neural Network and Genetic Algorithm

Mohammad Solin (Telkom University, Indonesia); Andry Alamsyah (Telkom University & School of Economics and Business, Indonesia); Brady Rikumahu (School of Economics and Business, Telkom University, Indonesia); Muhammad Apriandito Arya Saputra (Telkom University, Indonesia)

pp. 496-502

Storytelling Technique Using Three Act Structure and Directed Graph for Virtual Reality Game (case studi: UrBandung Legend)

Bambang Pudjoatmodjo (Telkom University, Indonesia & Universiti Teknikal Malaysia Melaka, Malaysia); Rizza Indah Mega Mandasari (Telkom University, Indonesia); Sazilah Salam (Universiti Teknikal Malaysia Melaka & UTeM Solutions Sdn Bhd, Malaysia)

pp. 503-507

Thursday, July 25 15:30 - 17:10

4D: Data Sources and Management

Big Data Analytics in Airlines: Efficiency Evaluation using DEA

Zudha Aulia Rachman and Arviansyah Arviansyah (Universitas Indonesia, Indonesia)

pp. 508-513

A Study of Ontology-based Knowledge Management System in Academic Domain

Shidiq Al Hakim (University of Indonesia, Indonesia); Mokhammad Fathoni Rokhman (Universitas Maarif Hasyim Latif, Sidoarjo, Indonesia); Dana I. Sensuse and Deki Satria (Universitas Indonesia, Indonesia)

pp. 514-518

Mathematical Formulation and Implementation of Query Inversion Techniques in RDBMS for Tracking Data Provenance

Anika Tabassum, Anannya Nady and Mohammad Rezwanul Huq (East West University, Bangladesh)

pp. 519-524

Modelling Augmented Congklak using Cycle of Digital Augmentation Method

Veronikha Effendy, Irfananda Satrio and Danang Junaedi (Telkom University, Indonesia)

pp. 525-530

A Comparative Study of Hollywood Movie Successfulness Prediction Model

Riefvan Achmad Masrury and Muhammad Apriandito Arya Saputra (Telkom University, Indonesia); Andry Alamsyah (Telkom University & School of Economics and Business, Indonesia); Made Primantari (Telkom University, Indonesia)

pp. 531-535

4E: Text and Sentiment Analysis

Paraphrase Construction of Al Quran in Indonesian Language Translation

Amalia Asti Hutami (Telkom University Bandung, Indonesia); Moch Arif Bijaksana and Arie Suryani (Telkom University, Indonesia)

pp. 536-541

People Entity Recognition in Indonesian Quran Translation with Conditional Random Field Approach

Farhan Dzaky Arvianto and Moch Arif Bijaksana (Telkom University, Indonesia); Arief Fatchul Huda (Universitas Islam Negeri Bandung & Telkom University, Indonesia)

pp. 542-546

Named Entity Recognition on Indonesian Tweets using Hidden Markov Model

Indira Suri Azarine, Moch Arif Bijaksana and Ibnu Asror (Telkom University, Indonesia)

Friday, July 26 8:30 - 10:10

5A: General

C5.0 Algorithm and Synthetic Minority Over-sampling Technique (SMOTE) for Rainfall Forecasting in Bandung Regency

Erwin Kurniawan, Fhira Nhita, Annisa Aditsania and Deni Saepudin (Telkom University, Indonesia)

pp. 561-565

Rainfall Forecasting using the Classification and Regression Tree (CART) Algorithm and Adaptive Synthetic Sampling (Study Case: Bandung Regency)

Siti Nur Lathifah, Fhira Nhita, Annisa Aditsania and Deni Saepudin (Telkom University, Indonesia)

pp. 566-570

Development of a Sharaf Table for Vocabulary in the Qur'an using Rule Based

Taufik Rahmat Kurniawan, Opik and Moch Arif Bijaksana (Telkom University, Indonesia); Arief Fatchul Huda (Universitas Islam Negeri Bandung & Telkom University, Indonesia)

pp. 571-575

Text Classification of British English and American English Using Support Vector Machine

Muhammad Romi Ario Utomo and Yuliant Sibaroni (Telkom University, Indonesia)

pp. 576-581

Signal Detection for Mobile Devices

Wen-Long Chin and Ming-Ju Lu (National Cheng Kung University, Taiwan)

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