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International Conference on Information System, Computer Science and Engineering

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The banner features a decorative top border with a repeating pattern of red, white, and blue diagonal stripes. On the left, the ECS logo is displayed in green and blue, followed by the text 'The Electrochemical Society' and 'Advancing solid state & electrochemical science & technology'. To the right of this text is a logo for the 18th International Meeting of the Chemical Society (IMCS18), consisting of a stylized 'E' and 'S' with '18th' below it. The main text of the banner reads '239th ECS Meeting with IMCS18' in large blue font, followed by 'DIGITAL MEETING • May 30-June 3, 2021' and 'Live events daily • Free to register' in black font. On the right side, there is a red button with the text 'Register now!' in white. The background of the banner is a collage of images: a person's face, a laptop, and abstract digital network patterns.

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**International Conference on Information System Computer
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ICONISCSE 2018**



(ICONISCSE 2018)

NOV 26-27, 2018 — PALEMBANG, INDONESIA

Accepted, peer reviewed papers from ICONISCSE 2018

Edited by

ICONISCSE Committee
Palembang – Indonesia

2018



PREFACE

The objectives of the International Conference on Information System Computer Science and Engineering (ICONISCSE) are to gain and expand knowledge of the latest issues, opinions, brilliant ideas about constructive comprehensive technological developments from students, researchers, and academics to bring new innovations in technology to a better future especially in the field of software engineering, computer engineering, computer science and information system.

The International Conference on Information System Computer Science and Engineering is a place of debate and sharing research ideas and results related to the topics of the conference.

ICONISCSE 2018 aims to be a hub for sharing research ideas and results, built on the scientific contributions of the participants, in accordance with the conference sections.

ICONISCSE 2018 brings together researchers, experts and representatives from maritime academia, companies, and public authorities, eager to review, discuss, and explore the latest opportunities and strengths in the software engineering, computer engineering, computer science and information system domain.

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Table of contents

Volume 1196

March 2019

[◀ Previous issue](#) [Next issue ▶](#)

International Conference on Information System, Computer Science and Engineering 26–27 November 2018, Palembang, Indonesia

Accepted papers received: 22 February 2019

Published online: 16 April 2019

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Papers

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Social Media Element for Persuasive B2c E-Commerce

Shaffiah Ali, Ab Razak Che Hussin, Samsuryadi and Jamilah Mahmood

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OPEN ACCESS 012002

Follower's Quality Factor in Social Commerce

Humaira Hairudin, Halina Mohamed Dahlan, Md Hafiz Selamat and Ab Razak Che Hussin

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OPEN ACCESS 012003

Implementation of Fire Image Processing for Land Fire Detection Using Color Filtering Method

Ahmad Zarkasi, Siti Nurmaini, Deris Stiawan, Firdaus, Abdurahman and Cora Deri Amanda

[+ Open abstract](#) [View article](#) [PDF](#)
OPEN ACCESS 012004

Item Clustering as An Input for Skin Care Product Recommended System using Content Based Filtering

Villa Putriany, Jaidan Jauhari and Rahmat Izwan Heroza

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OPEN ACCESS 012005

The Implementation of Supply Chain Management and Big Data to Accelerate Stock Order in Mega Drug Store

Ali Ibrahim, Erdo Irawan, Nanwastu Kartika Dewi, Nurani, Rath Filarsy and Yusmanianti

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OPEN ACCESS 012006

Antecedents of Internet of Things Adoption in Oil and Gas Industry

Shamsul Bahri Abdul Satar, Ab Razak Che Hussin, Yusuf Sahabi Ali and Samsuryadi

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OPEN ACCESS 012007

English – Indonesian Phrase Translation Using Recurrent Neural Network and ADJ Technique

Wenty Octoviani, Muhammad Fachrurrozi, Novi Yusliani, Mukhlis Febriady and Afriyan Firdaus

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OPEN ACCESS 012008

Automatic Toll Road Payment System Security Using Radio Frequency Identification (RFID) with the Blowfish method

Ahmad Fali Oklilas, Fitriyani and Ahmad Zarkasi

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OPEN ACCESS 012009

Facial Recognition Technique with Combination Method of Local Binary Pattern Histogram and Image Euclidean Distance

Erwin, Sapanudin, M. Fachrurrozi, Alvin Tamaarsa and Andy Zhang

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OPEN ACCESS 012011

Partitioning Itemset on Transactional Data of Configurable Items for Association Rules Mining

Faiz Muhammad, Rifkie Primartha, Adi Wijaya and Muhammad Ihsan Jambak

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OPEN ACCESS 012012

Comparative Analysis of Classification Method for Wart Treatment Method

Genda Ananta Rahmat, Rifkie Primartha, Sukemi and Adi Wijaya

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OPEN ACCESS 012013

The Combination of Logistic Regression and Gradient Boost Tree for Email Spam Detection

Artah Anggraina, Rifkie Primartha and Adi Wijaya

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OPEN ACCESS 012014

Capturing Visitor Characteristics for Requirement Engineering for Museum Tour Guide Application

Rini Yurita, Jaidan Jauhari and Rahmat Izwan Heroza

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OPEN ACCESS 012015

Extracting factors of Physical Activity Tracking Technology using Wordcloud and Relevancy Ranking

Nittee Wanichavorapong, Ab Razak Che Hussin, Ahmad Fadhil Yusof and Samsuryadi

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OPEN ACCESS 012016

The Comparison of Iris Detection Using Histogram Equalization and Adaptive Histogram Equalization Methods

Fathan Mustaghfirin, Erwin, Hadrians Kesuma Putra, Umi Yanti and Rahma Ricadonna

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OPEN ACCESS 012017

Faster R-CNN with Inception V2 for Fingertip Detection in Homogenous Background Image

Derry Alamsyah and Muhammad Fachrurrozi

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OPEN ACCESS 012018

Decision tree combined with PSO-based feature selection for sentiment analysis

Rifkie Primartha, Bayu Adhi Tama, Azhary Arliansyah and Kanda Januar Miraswan

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OPEN ACCESS 012019

Olfactory Arm Mobile Robot for Object Inspection Based on Fuzzy Logic and Support Vector Machine

Rendyansyah, Muhammad Rivai and Djoko Purwanto

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OPEN ACCESS 012020

Very Small Image Face Recognition Using Deep Convolution Neural Networks

Julian Supardi and Shi-Jinn Horng

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OPEN ACCESS 012021

Attribute Selection Using Information Gain and Naive Bayes for Traffic Classification

Ahmad Fali Oklilas, Tasmu, Sri Desy Siswanti, Mira Afrina and Herri Setiawan

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OPEN ACCESS 012022

Predictive Analytic for Estimating Electric Consumption of Smart Grid Platform in Residential Single-Family Building using Support Vector Regression Approach

A B Pangaribuan, Anzhika Octa, IWW Pradnyana and Sarika Afrizal

[+ Open abstract](#) [View article](#) [PDF](#)
OPEN ACCESS 012023

Determination of Fertilizer Doses of Plants Utilizing the Results of Aerial Photographs Using Fuzzy Tsukamoto

Huda Ubaya, Sukemi and Dian Oktavian

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OPEN ACCESS 012024

New Model of Vegetation Monitoring Using Flying NIR Cameras with NDVI Parameters and C-means

Huda Ubaya, Sukemi and Ayu Purnama Sari

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OPEN ACCESS 012026

The Implementation Of Customer Relationship Management (CRM) With Service Oriented Architecture (SOA) to Improve Customers' Loyalty

Ali Ibrahim, Annisa Turrahma and Endang Lestari Ruskan

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OPEN ACCESS 012027

Enhancing Learning Engagement on Minangkabau Traditional Food through Gamified Mobile Quiz

Tri Ramadani Arjo, Rina Yulius and Muchammad Fajri Amirul Nasrullah

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