

2022 International Conference on Computer and Drone Applications (IConDA 2022)

**Kuching, Malaysia
28-29 November 2022**



IEEE Catalog Number: CFP22M54-POD
ISBN: 978-1-6654-9236-2

**Copyright © 2022 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***** *This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP22M54-POD
ISBN (Print-On-Demand):	978-1-6654-9236-2
ISBN (Online):	978-1-6654-9235-5

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

Table of Contents

Malaysian Broadcasters: Narration, Creativity versus Government Policies on Drone Use.....	1
<i>Shazleen Mohamed, Wardatul Hayat Adnan, Mohd Fadly Khamis, Ahmad Syazwan Syuwari Nordin, Mohd Yusof Zulkefli</i>	
A Modeling Methodology for Positive Autocorrelated Process Data.....	7
<i>Siaw Li Lee, Chin Ying Liew, Chee Khium Chen, Li Li Voon</i>	
A Distributed Method for UAV Swarm Path Planning	12
<i>Wee Liang Boon, Paw Yew Chai, Murteza Kaizar Zakir, Faheem Bin Fawzi</i>	
The Effects of Jamming on Global Positioning System (GPS) Accuracy for Unmanned Aerial Vehicles (UAVs)	18
<i>N. Norhashim, N. L. Mohd Kamal, Z. Sahwee, S. Ahmad Shah, D. Sathyamoorthy</i>	
Experimental Evaluation of Propeller and Motor for a Solar-Powered UAV	23
<i>Z. Sahwee, N.L. Mohd Kamal, N. Norhashim, S. Ahmad Shah</i>	
Exploring the Potential of IoT-based Injury Detection and Response by Combining Human Activity Tracking and Indoor Localization	28
<i>Paul Cornelius Bong, Mark Kit Tsun Tee, Hudyjaya Siswoyo Jo</i>	
Proposing a Foundational IoT Smart Planter Concept towards Reducing Carbon Footprint in Malaysia via Gamification.....	34
<i>Sheena Punai Philimon, Mark Kit Tsun Tee, Chyziien Chang Yan Lo, Dexter Chu Hung Ho, Jake Zen Yan Chieng, Rachel May Bee Lian Soon</i>	
Security Attack on IoT Related Devices Using Raspberry Pi and Kali Linux	40
<i>Batrisyia B Mohd Bakry, Alisa Rafiqah Bt Adenan, Yusnani Bt Mohd Yussoff</i>	
Green Internet of Things (IoT) Solar Photovoltaic Absorption Optimization Based Panel Orientation in East Malaysia.....	46
<i>Kim-Mey Chew, Daniel Wei-Fung Chia, Siew-Ping Yiiong, Syvester Chiang-Wei Tan</i>	
A Gamified Approach for Learning Elementary Arithmetic Operations	51
<i>Nurul Amira Sallik, Irwandi Hipiny, Hamimah Ujir</i>	
Visualization of Tree Species Identification Using Mask RCNNs for Tropical Forests in Malaysia	55
<i>Robiah Hamzah, Mohammad Faizuddin Md.Noor</i>	

Comparative Study on Predictive Tool for Cyclone Separation Efficiency using Machine Learning Algorithm	61
<i>Yeat Fai Cheong, Veronica Lestari Jauw</i>	
Leveraging Unlabeled Data Using Semi-Supervised Generative Adversarial Network for Medical Image Segmentation.....	67
<i>Guoqin Li, Nursuriati Jamil, Raseeda Hamzah</i>	
Dynamic Resource Block Allocation Techniques for Simultaneous EMBB and URLLC Traffic	73
<i>Thaahirah Shireen Mohamed Rasied, Huda Adibah Mohd Ramli, Farah Diyana Abdul Rahman</i>	
Design and Analysis of PID controller for Fuel Economy Driving.....	79
<i>Muhammad Izzat Badruddin, Fatimatul Anis Bakri, Mohd Suhaimi Sulaiman, Zuraidi Saad</i>	
Mitigating Access Congestion in Smart Homes Using Multiple Access Points	85
<i>Muhammad Amirul Harun, Rafiza Ruslan, Ahmad Yusri Dak, Naginder Kaur, Nur Fatihah Fauzi, Abidah Mat Taib</i>	
Design of an IoT-based Medication Monitoring System	91
<i>Mohd Ady Nuqman Ahmad Fuad, Muhamad Naim Che Rosman, Nur Idawati Md Enzai, Mohd Amir Hamzah Ab. Ghani, Syazilawati Mohamed</i>	
CovidSense: A Heterogeneous Robot System for Indoor Area for COVID-19 Mitigation using Deep Learning Techniques.....	95
<i>Muhamad Sharifuddin Abd Rahim, Khairul Shazwan Mamat, Muhamad Mirza Mustafa, Fitri Yakub, Mohd Zamzuri Ab Rashid, Ahmad Redzuan Mohd Hanapiyah</i>	
Nonlinear Least Squares Problems using Approximate Greatest Descent Method	101
<i>Christina Nguk Ling Eu, Hendra Gunawan Harno, King Hann Lim</i>	
Machine Learning Methods for Multi-UAV Network Throughput Prediction	107
<i>Wei Jian Lau, Joanne Mun-Yee Lim, Chun Yong Chong, Ho Nee Shen, Thomas Wei Min Ooi</i>	
A Study of an Efficient Scheduling Algorithm for Simultaneous 5G Multimedia Traffic	113
<i>Huda Adibah Mohd Ramli, Aisha Hassan Abdalla Hashim, Thaahirah Shireen Mohamed Rasied, Ani Liza Asnawi, Farah Diyana Abdul Rahman</i>	
Remote Access VPN using Mikrotik Router	119
<i>Woei Jiunn Tay, Sook Ling Lew, Shih Yin Ooi</i>	
Implementation of Faster Region-Based Convolutional Neural Network for Waste Type Classification.....	125
<i>Jamilin Rashida, Raseeda Hamzah, Khyrina Airin Fariza Abu Samah, Shafaf Ibrahim</i>	
An Application of Thermography in Building Facade Inspection based on YOLOv3	131
<i>Yu Zhai, Chuanxiang Gao, Xi Chen, Ben M. Chen</i>	
Multidimensional Data Clustering and Visualization Using Hybrid Artificial Neural Network	137
<i>Yii Ming Leong, Adeline Engkamat, Ismariani binti Ismail</i>	
Investigation of Cognitive Engagement Theory in Supporting Visual Learners Using Multimedia Based Platforms	142
<i>Nurfazlina Haris, Azlina Bujang, Sheela Faizura Nik Fauzi, Sarehan Sadikin</i>	

Data Protection: Trust to Government and Willingness to Provide Information	148
<i>Erne Suzila Kassim, Muhammad Shafiq Shazwan Bin Abdul Halim, Safwan Kamal, Muhammad Kamallul Hayat Mohd Banuri</i>	
Use of Drones for Agriculture Small and Medium Enterprises (SMEs) in Sarawak: The Youths' Perceptions	153
<i>Wen Chiat Lee, Boo Ho Voon</i>	
Author Index.....	158