



UNIVERSITI
TEKNOLOGI
MARA

Cawangan Melaka

In partnership with



TADULAKO UNIVERSITY



i - J a M C S I I X
2023

ABSTRACT BOOK 2023

(i - J a M C S I I X)

INTERNATIONAL JASIN

MULTIMEDIA AND COMPUTER SCIENCE

INVENTION AND INNOVATION EXHIBITION

PUBLICATION DATE :8 NOV 2023

<https://jamcsiix.uitm.edu.my/>



i - J a M C S I I X

2023

INTERNATIONAL JASIN MULTIMEDIA & COMPUTER SCIENCE
INVENTION AND INNOVATION EXHIBITION (I-JaMCSIIIX) 2023

Virtual Award Ceremony

8th November 2023
Wednesday

Platform: YouTube

https://www.youtube.com/channel/UCW3Mw4_ngn6tn8gyXI0pLlw





i - J a M C S I I X

2023

INTERNATIONAL JASIN MULTIMEDIA & COMPUTER SCIENCE
INVENTION AND INNOVATION EXHIBITION (I-JaMCSIIIX) 2023

COPYRIGHT © 2023

i-JaMCSIIIX

Universiti Teknologi MARA Cawangan Melaka Kampus Jasin
77300, Merlimau, Melaka

Web: <https://jamcsiix.uitm.edu.my>



In partnership with
Tadulako University

ORGANIZING COMMITTEE

PATRON

PM DR ISMADI MD BADARUDIN

ADVISOR I

TS DR JAMALUDDIN HJ JASMIS

ADVISOR II

DATO' DR MOHD HAJAR HASROL JONO

PROGRAM DIRECTOR

DR. NUR SUHAILAYANI SUHAIMI

DEPUTY DIRECTOR

TS DR NURUL HIDAYAH BINTI MAT ZAIN

SECRETARY I

ANIS SHOBIRIN ABDULLAH SANI

SECRETARY II

FAIQAH HAFIDZAH HALIM

TREASURER I

SITI AISYAH ABD KADIR

TREASURER II

UMMU MARDHIAH JALIL

NURBAITY BINTI SABRI

DR. SITI FEIRUSZ AHMAD FESOL

PUBLICATION

DR. AHMAD FIRDAUS BIN AHMAD FADZIL

SITI NURAMALINA BINTI JOHARI

ROSNIZA ROSLAN

Ts DR. ALYA GEOGIANA BUJA

NORBAHIYAH AWANG

JURY

Ts. DR. NOR AFIRDAUS ZAINAL ABIDIN

DR. RAIHAH AMINUDDIN

NOOR AFNI DERAMAN

SITI FAIRUS BINTI FUZI

BUSHRA BINTI ABDUL HALIM

REGISTRATION

NORDIANAH BINTI JUSOH@HUSSAIN

AINON SYAZANA BINTI AB HAMID

SITI NURSYAHIRA BINTI ZAINUDIN

FADILAH EZLINA SHAHBUDIN

HAJAR IZZATI MOHD GHAZALLI

SYSTEM

FADHLINA IZZAH SAMAN

NOR AZIDA MOHAMED NOH

SHAHITUL BADARIAH SULAIMAN

IZNI SYAMSINA SAARI

INVITATION AND PROMOTION

NOR ADILA KEDIN

| | |
|---|--|
| | ADI HAKIM BIN TALIB MOHD AMIRUL BIN ATAN |
| MULTIMEDIA | Ts. NURUL NAJWA ABDUL RAHID@ABDUL RASHID NOOR ASHITAH ABU OTHMAN ANWAR FARHAN ZOLKEPLAY |
| AWARD | ANITA BINTI MOHD YASIN NURUL EMYZA ZAHIDI FATIMAH HASHIM SITI RAMIZAH JAMA DR NURUL HUDA NIK ZULKIFLI MARIATHY BINTI KARIM |
| CERTIFICATE | KHAIRUL NURMAZIANNA ISMAIL NUR NABILAH ABU MANGSHOR ZUHRI ARAFAH ZULKIFLI HAZRATI ZAINI |
| INTERNATIONAL RELATIONS | Ts. DR. SITI RAHAYU ABDUL AZIZ ALBIN LEMUEL KUSHAN SHAHADAN SAAD |
| LIAISON OFFICER | SYAFNIDAR ABDUL HALIM AJK WAKIL UNTAD |
| SPONSORSHIP | ANIS AMILAH SHARI MOHD RAHMAT MOHD NOORDIN DR YUZAIMI YUNUS DR SURYAEFIZA KARJANTO |
| SECRETARIAT & APPRECIATION BANQUET | RAIHANA MD SAIDI NUR SYUHADA BINTI MUHAMMAT PAZIL ANIS AFIQAH SHARIP SITI MAISARAH MD ZAIN HAZWA HANIM MOHAMED HAMZAH |

UNTAD'S COMMITTEE FOR I-JAMCSIIX 2023:

PROF. IR. MARSETYO, M.AG., PH.D.

PROF. I WAYAN SUDARSANA, S.SI., M.SI.

PROF. JUNAIDI, S.SI., M.SI., PH.D.

ELISA SESA, S.SI., M.SI., PH.D.

MUKRIM, M.ED., PH.D.

ZARKIANI HASYIM, S.PD., M.ED.

DR. HJ. ANI SUSANTI, M.SI.

DR. ISKANDAR, M.HUM.

DR. IR. ROIS., MP.

SYARIFUL ANAM, S.SI., M.SI., PH.D.

DR. NAHARUDDIN, S.PD, M.SI.

DR. DRG. ELLI YANE BANGKELE, M.KES.

HERMAN, SKM., M.MED.ED.

DR. IR. SAMLIOK NDOBE, M.SI.

DR. RAHMAT BAKRI, S.H., M.H.

DR. HAERUL ANAM, SE., M.SI.

DR. IR. BAKRI, S.T., PG. DIPL. ENG., M.PHIL.

DR. IR. MUHAMMAD YAZDI PUSADAN, S.KOM., M.ENG.

IR. SYAIFUL HENDRA, S.KOM., M.KOM.

RIZANA FAUZI S.T., M.T.

MOHAMMAD FAJRI, S.SI., M.SI.

NURUL FISKIA GAMAYANTI, S.SI., M.SI.

DR. NUR'ENI, S.SI., M.SI.

IMAN SETIAWAN, S.SI., M.SI.

FADJRIYANI, S.SI., M.SI.

LIST OF SPONSORS

External Company Sponsors



Klinik Dr Jamaluddin
Klinik Mawar Jasin
Nasi Ayam Ala Cina Zul
ADS Oasis Enterprise
Noorys Enterprise
Che Ramli bin Che Ismail
Beria Maju Enterprise
Rintiz rezeki
H&K food cafe
HS Gerak Wawasan

Individual Sponsors

En. Muhammad Hanif bin Abdul Aziz
Nor Suhaida binti Karjanto

Table of Contents

| Registration ID | Project Title | Page |
|-----------------|---|------|
| JM003 | Deep Learning Model for 5W (What, When, Where, Who, and Why) Sign Language Translation System | 1 |
| JM005 | Ramadhan Prep: A Mobile Application in Preparing for the Bigger Season of the Year | 2 |
| JM006 | BTF Cake Recommender and Management System by using Rule Based | 3 |
| JM007 | ALIMS - Assets Loan and Inventory Management with SMS Notification | 4 |
| JM008 | IJH – Immediate Job Hiring System for Part-Timers with Location-Based | 5 |
| JM009 | CRC – Clothing Review Classification using Sentiment Analysis | 6 |
| JM010 | Web-Based Safety Helmet Detection System for Construction Site Worker | 7 |
| JM011 | A Mobile Application System for Parking Validation Based on Deep Learning Image Processing | 8 |
| JM012 | DEPsy Model | 9 |
| JM013 | The Use of Computer Diagnostic Apps to Assist Computer Troubleshooting | 10 |
| JM014 | Quantitative Spasticity Assessment Model of Neurological Disorder Patients | 11 |
| JM015 | HELPIE: Stress Consoling App | 12 |
| JM016 | SmartER: Smart English Reader | 13 |
| JM017 | Synergistic Cyber Security Awareness Model for the Elderly (SCSAM-Elderly) | 14 |
| JM018 | Kusoke Adventures: Recycling Interactive Game | 15 |
| JM019 | Rider Parking Guidance using Location-Based Services and Crowdsourcing | 16 |
| JM020 | PANTAU: Smart Intruder Detection from Video Surveillance Using Deep Learning | 17 |
| JM022 | Plastopoll: A Serious Game to Raise Awareness About Plastic Pollution | 18 |
| JM023 | Enhanced Car Park Security Through an Automatic Plate Number Recognition (APNR) System Featuring QR Code Generation | 19 |

| | | |
|--------------|---|----|
| JM025 | Group Assignment Management System (GAMS) | 20 |
| JM026 | Proactive Safety Culture Application (PROSCA) Using Geolocation | 21 |
| JM027 | Flood Wise: Mobile Virtual Reality for Flood Preparation Awareness | 22 |
| JM028 | Recommendation System of Sports Centre in Malaysia Using Content Based Filtering | 23 |
| JM029 | Twitter Sentiment Analysis of Malaysian Fast Food Restaurant Chains: A Novel Approach to Understand Customer Perception using Naïve Bayes | 24 |
| JM030 | ARTventure: Learning Malay Traditional Dance Through Augmented Reality | 25 |
| JM031 | ExpenseEase - Living Expenses Management Mobile Application | 26 |
| JM032 | Drowsiness Detection and Alert System Using Face Recognition with Raspberry Pi | 27 |
| JM033 | Web Application of Facial Emotion Recognition in Classroom Learning Environment with Raspberry Pi 4 | 28 |
| JM034 | HexaBingo MathQuest | 29 |
| JM035 | Development of mobile app: Funeral services system (FSS) | 30 |
| JM036 | Development of Mobile Application: Digital Mutawwif | 31 |
| JM037 | Assessment Marks Management System: A Excel VBA Approach | 32 |
| JM038 | Design and Fabrication of a Potato Peeling Machine | 33 |
| JM040 | Donatenow: A Crowdsourcing-Based Mobile Application with Geolocation and Content-Based Filtering Algorithm | 34 |
| JM041 | TextCrunch | 35 |
| JM042 | Enhancing College Laundry Management System Through Web-Based Queueing Technique | 36 |
| JM043 | Cyber Security Fun Race | 37 |
| JM044 | Food Intake Monitoring and Management System for Athletes | 38 |
| JM046 | A Game-Based Learning on Food Nutrition for Children | 39 |
| JM047 | Innovative Video on Compound Interest | 40 |
| JM048 | Detection of the Spread Covid-19 in Indonesia using K-Means Clustering Algorithm | 41 |
| JM049 | Forecasting Inflation Rate in Malaysia Using Artificial Neural Network (Ann) Approach | 42 |

| | | |
|--------------|---|----|
| JM050 | Factors Affecting the House Price Among Kuala Lumpur, Selangor and Johor | 43 |
| JM051 | Oxygen Hydrogen Generator (HHO Generator) | 44 |
| JM052 | IoT-based Water Quality Monitoring System for Goldfish | 45 |
| JM053 | KIT PRO-TAJ (Professional tajwid) | 46 |
| JM054 | A Framework Of Procurement Analytics For Fraud Coalition Prediction | 47 |
| JM055 | Exploring Classical Chinese Poetry with AI Tool in PPT Design | 48 |
| JM056 | Developing Emergency Application for LRT Passengers with Decision Tree Algorithm (RailAlert!) | 49 |
| JM057 | LetsGoFit: Gamified Mobile Health Application | 50 |
| JM058 | Tools for Critical Thinking in IT | 51 |
| JM059 | Sheep Tracker via Radio Frequency Identification (RFID) System | 52 |
| JM060 | Developing an Application for Handyman Services Platform Using Geofencing and Content-based Filtering (Handy2Help) | 53 |
| JM061 | Modeling Cases of Stunting Toddler in Indonesia using the Conway Maxwell Poisson Regression Method | 54 |
| JM063 | Clustering Regencies/Cities in Central Sulawesi Province Based on Poverty Level Using the Average Linkage Method with Principal Component Analysis (PCA) | 55 |
| JM064 | An Application for Vehicle Rental Service Advertising Using Geofence With Content-Based Filtering (ReadyVehicle) | 56 |
| JM065 | MYB40: FINGERTECH B40 DISCOUNT CARD | 57 |
| JM066 | Horticulture Land: Guide to Being A Plantsman Through Green Game | 58 |
| JM067 | IMFLOODVR : An Immersive Virtual Reality Serious Game for Flood Risk Mitigation Awareness | 59 |
| JM068 | Tomoe : Topic Modelling Web Application | 60 |
| JM069 | ROVIGA: Model-Based Capacitive Soil Moisture Sensor for IoT-Based Plant Pot | 61 |
| JM070 | Classification and Visualization on Eligibility Rate of Applicant's LinkedIn Account Using Naïve Bayes | 62 |
| JM071 | Forecasting the Number of Schistosomiasis Cases (Snail Fever) in Napu, Central Sulawesi, Using the Auto Regressive Integrated Moving Avarege (ARIMA) Method | 63 |
| JM072 | Delivera Flow | 64 |

| | | |
|--------------|--|----|
| JM073 | PeerLoom: Peer-to-Peer Skill Exchange Platform for University Students | 65 |
| JM074 | Forecasting the Open Unemployment Rate in Central Sulawesi Province Using the Autoregressive Integrated Moving Average (ARIMA) Method | 66 |
| JM075 | Pre-Parent Test as an Effort to See Adults Readiness to Become Parents Based on Web | 67 |
| JM076 | The Development of Edu-Fertiblox Digital Game Using Roblox as ABM in The Topic of Fertigation Systems for The Subject of Design and Technology Level 1 | 68 |
| JM077 | SPARK C++: Bridging Concepts with Analogies, Multimedia, and Interactive Quizzes | 69 |
| JM078 | PLC-Based Water Filling Machine Simulator for Teaching and Learning Activities | 70 |
| JM079 | HANA'S Map | 71 |
| JM080 | Classification and Visualization of E-Commerce Product Reviews Comparison Using Support Vector Machine | 72 |
| JM081 | Futech.Edu (Future Technology Education): Teaching and Learning Application Design in The Society 5.0 Era | 73 |
| JM082 | Checkers Match Game | 74 |
| JM083 | SafeDrop: Intelligent Secure Parcel Locker | 75 |
| JM084 | Gamification in English for Report Writing: Engaging Learning through Webinars | 76 |
| JM085 | Iffah's Busy Board (IBB) | 77 |
| JM086 | 3R Bag | 78 |
| JM087 | 'CHICK VS VIRUS', A Game-Based Learning Approach in Teaching Students | 79 |
| JM088 | MyIGCSE-Time: STEM IGCSE for Students | 80 |
| JM089 | Kad 'Kat Mana Tu?' | 81 |
| JM090 | Learning Project Formulation using Gamification Approach | 82 |
| JM091 | Hoopla Pocket Location Aware Mobile Application with Augmented Reality | 83 |
| JM092 | Mini Blossom Fan: A Practical Approach to Workspace Comfort | 84 |
| JM093 | Cyberforce: A Cybersecurity Fps-Based Game | 85 |
| JM094 | An IoT-based Instrument for Free Fall Motion | 86 |



International Jasin Multimedia & Computer Science Invention and Innovation Exhibition



Rider Parking Guidance using Location-Based Services and Crowdsourcing

Imran Fikri Zulkefli¹, and Fadilah Ezlina Shahbudin¹

¹Universiti Teknologi MARA Cawangan Melaka Kampus Jasin, Malaysia

imranfikri.off@gmail.com, **fadilahezlina@uitm.edu.my

Abstract— Food delivery services have become increasingly popular in Malaysia as more and more people choose the convenience of having their meals delivered directly to their homes or workplaces. However, one of the challenges faced by delivery riders is finding parking spots at shopping malls due to limited parking availability and complex mall layouts. To address this issue a mobile application has been developed specifically for food delivery riders. This application utilizes geofencing, geolocation technology and crowdsourcing to enhance its functionality. As riders approach a mall, they receive notifications about parking spots in that area. With the help of GPS data and other relevant information the application accurately tracks the real time location of the rider's device. This application shows directions to their destination which ensures efficient tracking of delivery routes and records their progress effectively. The development model used for this project follows four phases of Waterfall Model which are requirements analysis, design, implementation and testing. By incorporating geofencing and geolocation technology into the food delivery application it improves efficiency, reliability and overall enhances the experience, for riders.

Keywords— *food delivery, parking guidance, location-based services, geofencing, crowdsourcing*



i - J a M C S I I X

2023

PUBLISHED BY:

i-JaMCSIIX

Universiti Teknologi MARA Cawangan Melaka

Kampus Jasin

77300 Merlimau, Melaka

Tel: 062645000

Email: jamcsiix@uitm.edu.my

Web: <https://jamcsiix.uitm.edu.my/>

**All rights reserved. No part of this publication
may be reproduced, stored in a retrieval system
or transmitted in any form or by any means,
electronic, mechanical, photocopying, recording
or otherwise, without permission of the
copyright holder**