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Cawangan Melaka

# i-JAMCSIIX 2022

International Jasin Multimedia & Computer Science Invention and Innovation Exhibition

## ABSTRACT BOOK

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**In Partnership:**



Tadulak • University

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# **i-JaMCSIIX** **2022**

International Jasin Multimedia & Computer Science Invention and Innovation Exhibition

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i-JaMCSIIX

Universiti Teknologi MARA Cawangan Melaka Kampus Jasin

77300, Merlimau, Melaka

Web: <https://jamcsiix.wixsite.com/2022>

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# Contents

<b>Registration ID</b>	<b>Project Title</b>	<b>Page</b>
<b>JM006</b>	Hiding Information Digitally Under Picture (HIDUP) Using Image Steganography	1
<b>JM007</b>	Target Heart Rate Zone Detector during Exercise based on Real-time Facial Expression using Single Shot Detection Algorithm	2
<b>JM009</b>	Learning Shapes and Colours using JomLearn & Play Application for Children	3
<b>JM010</b>	A Novel Quality Grading Determination using Boxplot Analysis and Stepwise Regression for Agarwood Oil Significant Compounds.	4
<b>JM011</b>	A Novelty Classification Model for Varied Agarwood Oil Quality Using The K-Nearest Neighbor Algorithm	5
<b>JM012</b>	The Development of Web-Based Student Leadership Program Management System for 'Unit Kepimpinan Pelajar'	6
<b>JM013</b>	MARC 1.0: Apps to integrate culture the fun way in a university orientation programme	7
<b>JM014</b>	Re: Gen - Web-based Resume Generator With Content Recommender For It Job Field	8
<b>JM015</b>	Zakat Distribution System for Asnaf Selection using Artificial Neural Network Algorithm in UiTM Cawangan Melaka	9
<b>JM017</b>	Jasin Smart Library	10
<b>JM019</b>	Nursery Plants Recommendation System Using Collaborative Filtering Technique	11
<b>JM020</b>	An Interactive Android Mobile Application in Learning Wudhu and Salah for Children with Learning Disabilities	12
<b>JM021</b>	Absolute Fitness	13
<b>JM022</b>	The Library	14
<b>JM023</b>	Dashcam with cloud storage using raspberry pi with FFmpeg video compression	15
<b>JM024</b>	Gold Price Forecasting by Using ARIMA	16

<b>JM025</b>	Recycle Now: Learning the 3R of Waste Management Through Game-Based Learning	17
<b>JM026</b>	Learning Corpse Handling for Primary School Students using Game-Based Learning	18
<b>JM028</b>	Mathematical Learningmate For Children With Dyscalculia	19
<b>JM029</b>	BC-DIGIT: An Interactive Digital Application	20
<b>JM030</b>	Energy Consumption Prediction In Educational Building During Lecture Week using Multiple Regression Model	21
<b>JM031</b>	Go Travel Application	22
<b>JM032</b>	SmartPark	23
<b>JM033</b>	iKEN 3D Environment Mobile Application	24
<b>JM034</b>	Click Car Services	25
<b>JM035</b>	Smart Vector Backpack	26
<b>JM036</b>	My Ole-Ole Application	27
<b>JM040</b>	SH Jacket	28
<b>JM041</b>	FemaleSafe2Go	29
<b>JM042</b>	Avalyn	30
<b>JM043</b>	MyConvenient Travel Application	31
<b>JM044</b>	Visnis Apps	32
<b>JM045</b>	Cyclo Application	33
<b>JM046</b>	i-seeuWatch	34
<b>JM047</b>	ArenaSport Application	35
<b>JM048</b>	Melastomaceae sp : A New Potential of Antioxidant Agent	36
<b>JM049</b>	Travesy	37
<b>JM051</b>	The Food Hunter	38
<b>JM052</b>	NIXON PACK	39
<b>JM053</b>	Ecoin Sustainable Smartwatch	40

<b>JM054</b>	SpaceBook	41
<b>JM055</b>	Prayer Mate Jacket	42
<b>JM056</b>	Backpack Hoodie	43
<b>JM057</b>	"Cintre Multifunction"	44
<b>JM058</b>	Phone Holder Multifunction 3 In 1	45
<b>JM059</b>	Business Financial Forecasting System Using Autoregressive Integrated Moving Average (ARIMA) Algorithm	46
<b>JM060</b>	Kesho Bearer	47
<b>JM061</b>	Nafas Face Mask	48
<b>JM062</b>	Handy Scrubby	49
<b>JM063</b>	Beanie Shawl	50
<b>JM064</b>	POMCUT (Portable Multi-cooking Utensil)	51
<b>JM065</b>	4 in 1 Tumbler	52
<b>JM066</b>	Multifunctional Holder	53
<b>JM067</b>	Visualizing the spread of Coronavirus disease using a Density-based Clustering Algorithm	54
<b>JM068</b>	Developing Biometric Facial Registration For Jobfinder Mobile Application	55
<b>JM069</b>	Development of Virtual Kenong with Leap Motion Controller	56
<b>JM070</b>	EYE DISTANCER DEVICE	57
<b>JM071</b>	Fuzzy Delphi Method Analytical Tool: An Excel VBA-Based Approach	58
<b>JM072</b>	Understanding Social Media Influence In Reviving The Trishaw Or "Beca" As A Popular Tourism Attraction In Melaka.	59
<b>JM073</b>	Non-immersive Virtual Reality for Learning Steps of Umrah: Effect from Covid-19 Pandemic	60
<b>JM074</b>	First Aid Stick	61
<b>JM075</b>	Istiqamah App by As-Sunnah Global Ventures Sdn Bhd	62
<b>JM077</b>	SWARM-L : Security Warning Area Mode of Liquifaction	63



<b>JM078</b>	T-LOBSTER : Transformation of Local Batik Motifs Central Sulawesi for the World	64
<b>JM079</b>	The IoT-based instrument for conservation law of mechanical energy	65
<b>JM080</b>	Web Application for Clustering Potential Earthquake Region in Central Sulawesi	66
<b>JM081</b>	Let's Read!	67
<b>JM084</b>	Anxiety Disorder Management System (ADMS)	68
<b>JM085</b>	A Guide to Water Purification	69
<b>JM086</b>	Bright Gas Distribution Information System Design Pertamina by Applying the Distribution Method Requirement Planning (DRP)	70
<b>JM087</b>	Detection of Flight Data Anomalies Based on Automatic Dependent Surveillance-broadcasting	71
<b>JM088</b>	Classification of Formalin Fish Based on Color Characteristics of Fish Eye Images Using Artificial Neural Network Algorithm	72
<b>JM089</b>	Coco-pine Bioplastic	73



## SH Jacket

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JM040 – Innovation – Local – Category C: Students - Higher Institution (Diploma/Bachelor)

***Abstract***—Going through tropical rainforest will be challenging for hikers when the devices that were brought along lose their power. Unlike any other kind of forest, the landscape of rainforest is surrounded by rugged terrain and clusters of tall trees that at some point limit sunlight from reaching the ground. The SH Jacket, also known as the Safe Hike Jacket, is a one-of-a-kind piece of clothing designed specifically for hikers in tropical climates. Hikers are individuals who hike for fun or as a sport, either alone or in groups. The use of polyester is to provide comfort to hikers during hiking activities as it is waterproof. The solar panel is made of durable fabric and is IPX4-certified, meaning it can withstand water splashes from any direction for up to five minutes. The solar panel battery contains enough power to fully charge the 1,500 mAh device up to four times. One important feature of solar panels is that they are a renewable energy source that is completely accessible as long as it gets sunlight energy to regenerate and generate electricity. The solar panels are sewn onto the SH Jacket shoulders. Once the solar panel is sewn, it will be in a long-stretched state and ready to be used to charge your device. Keep it plugged in for one hour to get it recharged. When done, just unplug the wire and keep it in the pocket on the front. Finally, this is the best hiking clothing for power backup for your device.

***Keywords***—*jacket, safety, hiking, hikers, outerwear*