SPATIAL ANALYSIS OF MACAU SCAM CASES IN PERLIS

NUR SYAFIQAH BINTI MAHAZAL 2020869182



CENTRE OF STUDIES FOR SURVEYING SCIENCE AND GEOMATICS COLLEGE OF BUILT ENVIRONMENT UNIVERSITI TEKNOLOGI MARA MALAYSIA

AUGUST 2023

SPATIAL ANALYSIS OF MACAU SCAM CASES IN PERLIS

NUR SYAFIQAH BINTI MAHAZAL 2020869182



Thesis submitted to the Universiti Teknologi MARA Malaysia in partial fulfilment for the award of the degree of the Bachelor of Surveying Science and Geomatics (Honours)

AUGUST 2023

AUTHOR'S DECLARATION

I declare that the work in this thesis was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This thesis has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for Under - Graduate, Universiti Teknologi MARA, regulating the conduct of my study and research.

Name of Student : Nur Syafiqah Binti Mahazal

Student I.D. No. : 2020869182

Programme : Bachelors in surveying science and Geomatics -

AP220

Faculty : College of Built Environment, CBE

Thesis Title : Spatial Analysis of Macau Scam Cases in Perlis

Signature of Student :

Date : 18th July 2023

ABSTRACT

The rise of Macau scam cases in Perlis has become a significant concern for law enforcement agencies and policymakers. To effectively combat this type of fraud and allocate resources efficiently, it is essential to gain a comprehensive understanding of the spatial patterns and trends associated with Macau scam occurrences. This problem emphasizes the lack of comprehensive spatial analysis in previous studies, which limits the understanding of the geographic distribution and clustering of these scams. This study aims to contribute to the existing knowledge by employing spatial analysis techniques to achieve three primary objectives: (1) To identify the Macau scam cases occur in Perlis between 2015 until 2021. (2) To locate the hotspot area of Macau scam victims in Police between 2015 until 2021. (3) To analyse the trend of Macau scam crime cases in Perlis. By employing advanced spatial analysis methods such as hotspot analysis, kernel density estimation, and spatial autocorrelation, this research examines the clustering patterns and spatial dependence of Macau scam incidents. The identification of hotspot areas will provide valuable insights for law enforcement agencies to concentrate their efforts on specific regions that are most vulnerable to Macau scam activities. The study's findings show significant regional patterns and hotspots of Macau scam instances in Perlis. Hotspot analysis finds statistically significant high-risk locations, providing useful information to law enforcement authorities for preventative and detection initiatives. Several recommendations are made based on the research findings. These include increasing public awareness and education campaigns, improving law enforcement collaboration, and executing targeted intervention tactics in high-risk locations.

TABLE OF CONTENTS

		Page			
CON	NFIRMATION BY PANEL OF EXAMINERS	iii			
AUTHOR'S DECLARATION		iv			
ABSTRACT		vi			
ACKNOWLEDGEMENT TABLE OF CONTENTS LIST OF TABLES LIST OF FIGURES LIST OF ABBREVIATIONS		vii viii xi xii xiii			
			LIST	T OF NOMENCLATURE	xiv
			CHA	APTER ONE INTRODUCTION	15
			1.1	Research Background	15
			1.2	Problem Statement	16
1.3	Aim of the study	18			
1.4	Research Objectives	18			
1.5	Research Question	18			
1.6	Significance of Study	19			
1.7	Overall Methodology	21			
1.8	Thesis Outline	22			
CHA	APTER TWO LITERATURE REVIEW	24			
2.1	Introduction	24			
2.2	Definition of Scam	24			
	2.2.1 Type of Scam	25			
2.3	Modus Operandi of Macau Scam	28			
	2.3.1 Credit card tricks	28			
	2.3.2 Trick by an Authorizes Officers	28			
	2.3.3 Lottery and Lucky Draw Trick	29			
	2.3.4 Impersonating Kidnappers	29			