DETERMINANTS AND CONVERGENCE INCIDENCE OF CRIME

BAHAROM BIN ABDUL HAMID

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DETERMINANTS AND CONVERGENCE INCIDENCE OF CRIME

by

BAHAROM ABDUL HAMID

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DEDICATION

This work is dedicated,

To my beloved wife Sa’adah Abdul Rahim, my handsome sons, Adib Aiman, Adib Ammar, Adib Irshad, my lovely daughters, Siti Aisyah, Siti Aminah and Siti Umairah, not forgetting my ever supporting parents Abdul Hamid and Alimah……….. "It would not be possible…without your support….".
This study aims of investigating the economics of crime in selected 21 countries in the world which include Australia, Austria, Canada, Cyprus, Denmark, Estonia, Finland, France, Greece, Hungary, Ireland, Italy, Japan, Netherland, New Zealand, Norway, Poland, Spain, Sweden, United Kingdom and United States of America. The specific objectives are, firstly, to investigate determinants of crime, especially the impact of socio-economic variables on crime incidence and occurrence. Secondly, to investigate the impact of crime on nation’s economic growth and finally the convergence of crime incidence. As for the first objective of investigating the relationship between socio-economic variables and crime, independent variables we’re chosen carefully by studying theories of crime causation as well as past literatures and we decided to employ income level, unemployment rate, and inflation rate. On top of that, we also included political violence, both domestic and regional in order to enrich the study. As for the theoretical background of the study we started by adapting the model and framework that was
introduced by Viren (2001) based on Becker (1968), Block and Heineke (1975). We made slight modification by rephrasing the model in order to not only capture the long run relationship but also the short run dynamics. As for the investigation of the impact of crime on nations economy we begun with the classic framework of Solow-Swan growth model, we progressed with the recommendation by Cellini (1997) and took into account of Islam (1995). Panel-error-correction based cointegration (Persyn and Westerlund (2008)) was employed to investigate the linkages between socio-economic variables and crime as per our main aim, as well as for the second aim of understanding the impact of crime on nation’s economic growth. As for the final aim of investigating the convergence of crime incidence, we formulated the benchmark, which is the average crimes rate as per the group of countries namely, all countries, transition and developed economies and we proceed to measure the difference of crime rates of the respective economies and the benchmark, and finally, the difference or the gap that was obtained, were tested for their statistical properties. For this analysis, we employed a panel unit root test that caters for cross sectional dependence (Pesaran CADF test). The scope of the study covers 21 countries with data spanning for 41 years (1960 to 2001).

We could conclude a number of observations from our study. Firstly, the results revealed a negative long run relationship between income level and crime, incidence, which translates literally to a notion that a higher income would enable the people to enjoy a better life, and vice versa worsening income could induce strain and create pressure on society. The result also indicated a positive long run relationship between inflation and crime, the logical explanation is almost the same, whereby while higher prices would enable firm and business to receive much higher return and profit. However, majority of
people, who are actually fixed income earners, would definitely feel the pinch due to high prices which translate to worsening purchasing power, which will induce strain; Similar positive results were also obtained for the relationship between unemployment and crime as well as lending rate and crime. Losing source of income would mean that one has to fend elsewhere in order to survive, some might take the shortcut, namely committing a crime. A steep lending rate is a nuisance for people since the cost of repayment is burdensome. As for the political violence variable, domestic political violence seems to be negatively related; on the contrary regional political violence is positively related. We believe this might be attributed to the spillover effect. All these signs are as anticipated and justified in this study and are concurrent with most of the past literatures. Secondly, it is found that as anticipated, crime indeed has a negative impact on economic growth as showed by the results of the estimation. As for the convergence of crime, the results clearly shows that for all three cases, there are no convergence (all, transition and developed economies). It proves the point that crime occurrences are country or economy specific, the incidence of crime is indeed correlated with number of factors. Different economic background, differing punishments, various regulations, diverse culture plays a part in occurrence of crime. Some policy implications of this study are that the policy makers needs to cautiously and carefully plane crime policies, rather than focusing on punishments, they should look at avenues of prevention, and this study had shown that if the socio-economic conditions are improved it would lead to reduction of crime rates.
Abstrak tesis yang dikemukakan kepada Senat Universiti Putra Malaysia sebagai memenuhi keperluan untuk ijazah Doktor Falsafah

PENENTU DAN INSIDEN PENUMPUAN JENAYAH

Oleh

BAHAROM ABDUL HAMID

Mac 2012

Pengerusi : Profesor Muzafar Shah Habibullah, PhD
Fakulti : Ekonomi dan Pengurusan

Kajian ini dijalankan adalah untuk menyiasat ekonomi jenayah di 21 negara terpilih di dunia merangkumi Australia, Austria, Kanada, Cyprus, Denmark, Estonia, Finland, Peranchis, Greece, Hungary, Ireland, Itali, Jepun, Belanda, New Zealand, Norway, Poland, Sepanyol, Sweden, United Kingdom dan Amerika Syarikat. Objektik spesifiknya adalah, yang pertama, untuk menyiasat penentu kejadian jenayah, khasnya kesan pembolehubah sosio-ekonomi keatas kejadian dan insiden jenayah. Kedua, adalah untuk menyiasat kesan jenayah terhap pertumbuhan ekonomi sebuah negara dan akhirannya penumpuan insiden jenayah. Untuk objektif pertama, iaitu menyiasat hubungan diantara pembolehubah sosio-ekonomi dan jenayah, pembolehubah bebas yang dipilih setelah menghalusi teori penyebab jenayah dan kajian lampau, kami membuat keputusan untuk memilih kadar pendapatan, kadar pengangguran dan kadar inflasi. Lebih dari itu, kami juga memasukkan keganasan politik, merangkumi tempatan dan wilayah. untuk memperkayakan kajian..Untuk tunjang teoretikal kajian, kami

Kami dapat merumuskan beberapa dapatan dari kajian ini. Pertama, hasil kajian menunjukkan hubungan negatif jangka panjang diantara kadar pendapatan dan jenayah, menyarankan pendapatan yang tinggi dapat membolehkan kita menikmati kehidupan yang lebih baik dan sebaliknya pendapatan yang menurun memberi tekanan kepada masyarakat. Dapatan juga mengindikasikan bahawa terdapat hubungan jangka panjang diantara kadar inflasi dan jenayah, dan penerangan logik adalah hampir sama iaitu

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I certify that an Examination Committee has met on 16th of March 2012 to conduct the final Examination of Baharom bin Abdul Hamid on his Doctor of Philosophy thesis entitled “Determinants and Convergence of Crime: International Evidence” in accordance with Universities and College Act 1971 and the Constitution of the Universiti Putra Malaysia [P.U.(A) 106] 15 March 1998. The Committee recommends that the student be awarded the Doctor of Philosophy.

Members of the Examination Committee are as follows:

**Alias Radam, PhD**  
Associate Professor  
Faculty of Economics and Management  
Universiti Putra Malaysia  
(Chairman)

**Annuar Md Nassir, PhD**  
Professor  
Faculty of Economics and Management  
Universiti Putra Malaysia  
(Internal Examiner)

**Fatimah Mohamed Arshad, PhD**  
Professor  
Faculty of Economics and Management  
Universiti Putra Malaysia  
(Internal Examiner)

**Indah Sosilowati, PhD**  
Professor  
Faculty of Economics and Management  
Universiti Putra Malaysia  
(External Examiner)

---

**SEOW HENG FONG, PhD**  
Professor/Deputy Dean  
School of Graduate Studies  
Universiti Putra Malaysia

Date:
This thesis was submitted to the Senate of Universiti Putra Malaysia and has been accepted as fulfillment of requirements for the degree of Doctor of Philosophy. The members of the Supervisory Committee were as follows:

**Muzafar Shah Habibullah, PhD**  
Professor  
Faculty of Economics and Management  
Universiti Putra Malaysia  
(Chairman)

**Zaleha Mohd Noor, PhD**  
Senior Lecturer  
Faculty of Economics and Management  
Universiti Putra Malaysia  
(Member)

**Lee Chin, PhD**  
Senior Lecturer  
Faculty of Economics and Management  
Universiti Putra Malaysia  
(Member)

**BUJANG BIN KIM HUAT, PhD**  
Professor and Dean  
School of Graduate Studies  
Universiti Putra Malaysia

Date :
DECLARATION

I declare that the thesis is my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously, or is not concurrently, submitted for any other degree at Universiti Putra Malaysia or at any other institutions.

_____________________________
BAHAROM BIN ABDUL HAMID

Date : 16th March 2012
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