
ACROSS BORDERS

AN OVERVIEW OF ISSUES IN
MANAGEMENT & BUSINESS / SCIENCE & TECHNOLOGY
/ SOCIAL SCIENCE & HUMANITIES
2009-2011

PROJECT TEAM

Dr. Roaimah Hj. Omar
Dr. David Loh Er Fu
Nor Raihan Abu Bakar
Siti Zuraina Gafar@Abd Ghaffar
Muhamad Hanapi Khamis
Siti Nurshahidah Sah Allam

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**Division of Research, Industrial Linkages & Alumni
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Cawangan Melaka**

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PREFACE

Across Borders is designed for use in knowledge development in various disciplines. It is written to accommodate the interest of academicians and industry. The compilation of research abstracts from different fields provides valuable information to assist the expansion of knowledge and development. It also serves as a reference for Universiti Teknologi MARA (UiTM) Melaka Campus and the Division of Research, Industrial Linkages & Alumni.

The compilation of proceeding abstracts includes 83 research abstracts that are divided into 3 sections according to their respective disciplines; Management and Business, Science and Technology, and Social Science and Humanities.

It is hoped that this book would inspire its readers to undertake further research in the specific fields or disciplines.

ACKNOWLEDGEMENT

The project team of this Across Borders would like to express their deepest appreciation to all the researchers from the various faculties for their participation. Without their on-going contributions the book would not be possible. We are indebted to the Rector of Universiti Teknologi MARA (UiTM) Melaka Campus and the Division of Research, Industrial Linkages & Alumni for mooted the idea of having this book and getting the project started.

We would like to sincerely thank all our friends, colleagues, and acquaintances for their roles, direct and indirect contributions and invaluable support in the compilation of the 83 proceeding abstracts.

POLLUTION AS ONE OF THE DETERMINANTS OF INCOME IN MALAYSIA: COMPARISON BETWEEN SINGLE AND SIMULTANEOUS EQUATION ESTIMATORS OF AN EKC

Halimahton Borhan
Elsadig Musa Ahmed

ABSTRACT

This study aims to examine the relationship between economic growth and different indicators of air and water pollution in Malaysia. Air pollution indicators were assessed on a number of measures: carbon monoxide, sulphur dioxide (SO₂), nitrogen dioxide, ozone and particulate matter (PM₁₀); while water pollution indicators is evaluated based on a number of measures: biochemical oxygen demand, cadmium and arsenic. The income level per capita gross domestic product per capita were measured from the year 1996 to 2006 quarterly. Being different from the study by Hung and Shaw (2004) and Shen (2006), this study estimates population density as an endogenous variable. It formulates a four equation simultaneous model for empirical research. Hausman test is utilized to test for exogeneity and the two-stages least squares method is used to estimate the simultaneity model. The Environmental Kuznets Curve (EKC) hypothesis is supported in the cases of SO₂ and PM₁₀, and there are several differences found between single polynomial equation estimators commonly used in EKC literatures and simultaneous equation estimators.

KEYWORDS

Pollutants, Economic Growth, Malaysia, Environmental Kuznets Curve, Simultaneity