

This next pages provide abstracts & full text of Some of Dr. Khaled Abbas Research Work

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1- Role of Government in Transport Industry

- 1- Abbas K. A. (2004) *Reinventing Government Role in Transport Sector: The Way Forward. In P...*

Abstract:

The main aim of this study was to develop a structured framework constituting the generic roles (function

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2- Strategic Policy and Planning for Transport Sector

- 1- Abbas K. A. (2004) *Assessment of National Transport Sector in Egypt: A Basis for Developing a...*

Abstract:

This paper starts by presenting a discussion describing current status of the national transport sector in

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3- Transport Cost Modelling

1. 1- Abbas K. A. and Abd-Allah H. Mona (1999) *Estimation and Assessment of Cost Models for Mass*

Abstract:

This paper reviews the main characteristics of the provision of urban transit systems in Cairo, namely bus

This article may be used for research, teaching and private study purposes. Any substantial or systematic



1. 2- Abbas K. A. and Abd-Allah H. Mona (1998) *Estimation of Consumption and Requirement Models*

Abstract:

Mass transit systems in the city of Cairo are being mainly operated by the Cairo Transport Authority (CTA)

This article may be used for research, teaching and private study purposes. Any substantial or systematic



4- Bus Transit Modelling

- 1- Abbas K. A. and El-Maksoud A. A. (1999) *Development of a Generic Analytical Framework for*

Abstract:

There is a tangible move, across cities of the world, towards achieving efficiency gains in the bus industry.

This article may be used for research, teaching and private study purposes. Any substantial or systematic



1. 2- Abbas K. A. (1996) *A Generic System for Planning Activities in a Bus Transit Company*. *Proceedings of the 1996 IEEE Conference on Systems, Man, and Cybernetics*.
<http://www.etcproceedings.org/paper/a-generic-system-for-planning-activities-in-a-bus-transit-company>

Abstract:

Managers of bus transit companies have the task of managing their companies' resources (financial, human, and physical).

This article may be used for research, teaching and private study purposes. Any substantial or systematic



[g-abstracts K.A. \(2003\) Modeling Bus Transit Operations: A Basis for Budgeting and Fare Determination](#)

This article may be used for research, teaching and private study purposes. Any substantial or systematic



5- Bus Transit Policy, Management and Performance

- 1- Abbas K. A., Saleh A. E., and Bahgat A. (1992) *Towards Market Economy: Past Present and Future*

Abstract:

The Egyptian transport industry is undergoing substantial changes within the framework of the national economic

This article may be used for research, teaching and private study purposes. Any substantial or systematic



- 2- Abbas K. A. (1993) *Performance Measures Used for Comparing the Achievements of Passenger*

Abstract:

In light of the current deregulation of the transport industry in Egypt, this paper explores the different types

This article may be used for research, teaching and private study purposes. Any substantial or systematic



1. 3- Abbas K. A. (1994) *Policies for Improving Operational Profitability in Intercity Bus Companies in*

Abstract:

The paper starts by laying down the current organisational scene within which transport companies in E

This article may be used for research, teaching and private study purposes. Any substantial or systematic



6- Congestion and Travel Demand Management - Sustainable Transport Strategies

1. 1- Abbas K. A. (2009) *Integrated Programs for Mitigating Traffic Problems in Developing Countries*

Abstract:

Research Portfolio

Written by Dr. Khaled Abdelazim Abbas

Wednesday, 24 August 2011 17:11 - Last Updated Friday, 16 September 2011 22:52

This research starts by developing a comprehensive inventory and categorization of demand and supply

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1. 2- Abbas K. A., Okail O., and Mabrouk I. (1997) *A Trio Management Package for Relieving Traffic*
<http://www.etcproceedings.org/paper/a-trio-management-package-for-relieving-traffic-congestion-in-cairo-traffic-tr>

Abstract:

The traditional strategy for tackling the traffic congestion problem has been, for years, to add more capa

This article may be used for research, teaching and private study purposes. Any substantial or systemat



1. 3- Abbas K. A. (2001) *Environmentally Sustainable Transport Strategies: The Way Forward in Me*
http://s3.amazonaws.com/zanran_storage/www.vti.se/ContentPages/49386654.pdf

Abstract:

This paper is concerned with one of the three requirements of a sustainable transport system, namely th

This article may be used for research, teaching and private study purposes. Any substantial or systematic



1. 4- Abbas K. A. (2004) *Experts Judgment: A Basis for Developing Integrated Programs for Mitigation*

Abstract:

This research starts by developing a comprehensive inventory and categorization of demand and supply

This article may be used for research, teaching and private study purposes. Any substantial or systematic



1. 5- Abbas K. A., Okail O., and Mabrouk I. (1996) *Assessment of Potentiality of Travel Demand Man*

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This article may be used for research, teaching and private study purposes. Any substantial or systematic



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7- Logistics Chain Analysis

1. 1- Abbas K. A. & Aly M. G. (2004) *Logistics Chain Analysis of Upper Egypt Wheat Milling Compar*
 - 2- Abbas K. A. and Aly M. G. (2003) *Developing Transport Cost and Revenue Models Based on L*
 - 3- Abbas K. A. & Aly M. G. (2003) *Logistics Chain Analysis: A Basis for Analysing Efficiency of Wh*
- <http://www.nofoma.org/conferences/nofoma2003/program/information.htm>

Abstract:

This paper develops a methodological approach that is meant to compute and assess the financial effici

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This article may be used for research, teaching and private study purposes. Any substantial or systematic



1. 4- Abbas K. A. (2004) *Logistics Chain Analysis: A Basis for Assessing Greenhouse Impacts of Tra*

Abstract:

The main production and warehousing premises of Egypt Eastern Company for Tobacco is currently loc

This article may be used for research, teaching and private study purposes. Any substantial or systemat



8- Logistics Analysis of Container Handling at Ports

1. 1- Abbas K. A. & Mokhtar M. M. (2003) *Assessing and Improving Container Handling Services at* <http://www.nofoma.org/conferences/nofoma2003/program/information.htm>
- 2- Abbas K. A. & Mokhtar M. M (2003) *Logistics Chain Analysis of Alexandria Container Handling* <http://www.etcproceedings.org/paper/logistics-chain-analysis-of-alexandria-container-handling-company-in-egypt-a-b>

Abstract:

This research aims at developing two logistics chains that simulate the activities performed by Alexandri

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This article may be used for research, teaching and private study purposes. Any substantial or systematic



9- Environmental Impact Assessment of Transport Projects/Activities

1. 1- Abbas K. A. (2003) *Environmental Assessment of Road Alignments Based On Multicriteria Scoring*
<http://www.ingentaconnect.com/content/beechn/iapa/2003/00000021/00000004/art00007>

Abstract:

This research develops a multicriteria scoping framework by which alternative road alignments can be assessed.

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1. 2- Abbas K. A. (2004) *Logistics Chain Analysis: A Basis for Assessing Greenhouse Impacts of Transport*

Abstract:

The main production and warehousing premises of Egypt Eastern Company for Tobacco is currently loc

This article may be used for research, teaching and private study purposes. Any substantial or systemat



10- Traffic Impact Assessment

1. 1- Abbas K. A. (2004) *Framework for Assessing Traffic Impacts Generated by Mega Complexes*: <http://www.ingentaconnect.com/content/beechn/iapa/2004/00000022/00000004/art00006>

Abstract:

This paper develops a generic framework of the process involved in conducting traffic impact assessme

This article may be used for research, teaching and private study purposes. Any substantial or systemat



11- Impacts of Metro system

- 1- *White P., Bahgat A. G., El-Tony F., El-Mahdi R., Boshra E., Abbas K. A., Fattah A., and Al-Keelany O., and W*
- 2- *Bahgat A. G., El-Tony F., El-Mahdi R., Boshra E., Abbas K. A., Fattah A., Al-Keelany O., and W*

Abstract:

The Cairo Metro – the first in Africa and the Middle East – is a two-line system, heavily used. Data from

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This article may be used for research, teaching and private study purposes. Any substantial or systemat



12- Impact of Transport on the Development of New Cities

- 1- *Bahgat A. and Abbas K. A.. (1996) Effect of Accessibility on the Development of New Cities in E*
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- 3- *Bahgat A. and Abbas K. A.. (1997) Effect of Accessibility on the Development of New Cities in E*

Abstract:

The main objective of this research is to gain a general insight into the development process of new cities.

This article may be used for research, teaching and private study purposes. Any substantial or systematic



This article may be used for research, teaching and private study purposes. Any substantial or systematic



This article may be used for research, teaching and private study purposes. Any substantial or systematic



1. 4- Abbas K. A., and Bahgat A. (1992) *Transport and the Industrial Development in New Cities in Egypt*

Abstract:

The main objective of this study is to gain a general insight into the development process of new cities in

This article may be used for research, teaching and private study purposes. Any substantial or systematic



13- Traffic safety and accident Analysis

1. 1- Abbas K. A. (2004) *Traffic Safety Assessment and Development of Predictive Models for Accidents*
http://ipac.kacst.edu.sa/eDoc/2006/157028_1.pdf

Abstract:

This paper starts by presenting a conceptualization of indicators, criteria and accidents' causes that can

This article may be used for research, teaching and private study purposes. Any substantial or systematic



1. 2- Abbas K. A. & Al Hossieny A. (2004) *In-depth Statistical Analyses of Accident Databases. Part*
- 3- Abbas K. A. & Al Hossieny A. (2001) *A Generic Approach for In-Depth Statistical Investigation of*
http://s3.amazonaws.com/zanran_storage/www.vti.se/ContentPages/49386654.pdf

Abstract:

The main aim of this research is to develop a generic approach for the utilization of statistical methods to

This article may be used for research, teaching and private study purposes. Any substantial or systematic



14- Traffic safety Management

1. 1- Abbas K. A. (2004) *Developing a Conceptual Model for Sustainable Management of Traffic Safety*
- 2- Abbas K. A. (1996) *A System Approach for Sustainable Management of Traffic Safety (Part II).*
<http://www.etcproceedings.org/paper/a-system-approach-for-sustainable-management-of-traffic-safety>

Abstract:

In this article, the concept, ingredients and levels of sustainable traffic safety management are proposed

This article may be used for research, teaching and private study purposes. Any substantial or systematic



Abstract: Abbas K. A. (2004) 3 Steps Generic Procedure to Assess Road Safety Development of Cairo City, Egypt

This article starts by presenting a generic conceptualization of factors affecting safety of road grade crossings. Its objective is to



15- Safety at RailRoad at Grade Crossings

- 1- Abbas K. A. Ghareib A. H. and Wahdan A. H. (2009) *Safety Modeling and Improvement of Rail*
- 2- Abbas K. A. Ghareib A. H. and Wahdan A. H. (2003) *Development of Safety Proxy Models for F*

Abstract:

The paper starts by presenting a generic conceptualization of factors affecting safety of railroad grade crossings.

This article may be used for research, teaching and private study purposes. Any substantial or systematic



16- Traffic Behaviour & Safety for Children as Pedestrians

- 1- Abbas K. A., Mabrouk I., and Al-Araby A. K. (1996) *School Children as Pedestrians in Cairo: Pr*
- 2- Abbas K. A., Mabrouk I., and Al-Araby A. K. (1994) *Traffic Behaviour of School Children in Cairo*

Abstract:

This research attempts to infer the pattern of traffic behaviour of school children. In doing so, the study

This article may be used for research, teaching and private study purposes. Any substantial or systematic



1. 3- Al-Araby A. K., Mabrouk I., and Abbas K. A. (1996) *Traffic Perception, Attitude and Skills of School Children*

Abstract:

In recent years, many countries have been giving more attention to the traffic safety of children. Unfortunately,

This article may be used for research, teaching and private study purposes. Any substantial or systematic



17- Transport & Pedestrian Environment for Mobility Handicapped

1. 1- Mabrouk I., and Abbas K. A. (1994) *Pedestrian Environment Problems Encountered by the Mobility Handicapped*

Abstract:

The pedestrian walking and crossing environment in Cairo is considered to be unfriendly and uncomfortable

This article may be used for research, teaching and private study purposes. Any substantial or systematic



1. 2- Abbas K. A. and Mabrouk I. (1994) *Physically Handicapped and Visually Impaired: Trip Charac*

Abstract:

The overwhelming majority of residents in Cairo, the capital of Egypt, face many transport-related proble

This article may be used for research, teaching and private study purposes. Any substantial or systematic



1. 3- Abbas K. A., and Mabrouk I. (1995) *Mobility of Vulnerable Road Users in Cairo. Proceedings of*

Abstract:

In recent years, many countries in the world are giving more attention to improving the safe and easy mo

This article may be used for research, teaching and private study purposes. Any substantial or systemat



18- Roads and Bridge Management System

1. 1- Abbas K. A., Bell M. G. H., and Crouch F. O. (1990) *Computer-Based Support for the Managen*

Abstract:

Road transport is regarded as one of the key elements that contributes to the economic growth and dev

This article may be used for research, teaching and private study purposes. Any substantial or systemat



1. 2- Abbas K. A. (1993) *Illustration of SDPMS: A Generic Pavement Management System. Proceed*

Abstract:

In any transport system, financial resources are consumed in constructing, administrating and maintaining

This article may be used for research, teaching and private study purposes. Any substantial or systematic



1. 3- Abbas K. A., Fattah N. A. & Farhat H. H. (2003) *A Proposed Bridge Inspection and Maintenance*

Abstract:

Bridges are considered as one of the most valuable transport infrastructure assets. One of the major factors

This article may be used for research, teaching and private study purposes. Any substantial or systematic



19- Transport Systems Modelling Using System Dynamics &

Expert Systems

1. 1- Abbas K. A., and M. G. H. Bell (1994) *System Dynamics Applicability to Transportation Modelling*

Abstract:

The main focus of this paper lies in reviewing and evaluating the strengths and weaknesses of the System

Paper (pdf viewer link) This article may be used for research, teaching and private study purposes. Any

1. 2- Abbas K. A. (1990) *A Road Provision Model Using System Dynamics. In System Dynamics '90*,
<http://www.systemdynamics.org/conferences/1990/proceed/pdfs/abbas001.pdf>

Abstract:

One of the most difficult tasks facing highway administrators is how to efficiently manage the allocation of

This article may be used for research, teaching and private study purposes. Any substantial or systematic



1. 3- Abbas K. A. (1990) *The Use of System Dynamics in Modelling Transportation Systems With Re*
<http://www.systemdynamics.org/conferences/1990/proceed/pdfs/abbas016.pdf>

Abstract:

Since the development of System Dynamics, it has been applied successfully to a range of complex pro

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1. 4- Abbas K. A. (1990) *A System Dynamics Road Provision Model. In Dynamic Analysis of Comple*

Abstract:

The growing conflict between the requirements of the road network and the available financial resources

This article may be used for research, teaching and private study purposes. Any substantial or systemat



1. 5- Abbas K. A., and Bahgat A. (1992) *A Process of Knowledge Representation for Developing Tra*

Abstract:

The main focus of this paper lies in presenting a structured process of knowledge representation, which

This article may be used for research, teaching and private study purposes. Any substantial or systematic



1. 6- Abbas K. A. (1993) *Expert Systems in Transportation: Usefulness and Applicability*. *Proceeding*

Abstract:

The main focus of this paper lies in reviewing the Expert Systems (ESs) technology and evaluating the s

This article may be used for research, teaching and private study purposes. Any substantial or systematic



20- Travel Demand Modelling & Evaluation (Road Transport –

Aviation)

1. 1- Abbas K. A. (2003) *User Charging for Roads in Egypt: A Case Study of Cairo-Alexandria Toll Roads*
<http://www.etcproceedings.org/paper/road-user-charging-for-roads-in-egypt-a-case-study-of-cairo-alexandria-toll-ro>

Abstract:

This research starts by reviewing the current situation of toll roads in Egypt. The core of the research is to

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1. 2- Abbas K. A., Fattah N. A. & Reda H. R. (2003) *Developing Passenger Demand Models for International Aviation*
http://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/20050156072_2005082769.pdf

Abstract:

This research is concerned with developing passenger demand models for international aviation from/to

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Abstract: [Abbas K. A. \(2004\) Conceptual Regression Model for Passenger Demand Prediction: A Case Study of the Egyptian Railways](#)

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Abstract: [Abbas K. A. \(2004\) Developing a Risk Assessment Model for the Egyptian Railways](#)

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21- Assessment of Training Needs in the Transport Industry

- 1- Abbas K. A. (1993) *Management Training in Light of Deregulation of the Egyptian Transport Industry*

Abstract:

This paper explores the different components of the training cycle. Its main emphasis lies in presenting the different components of the training cycle.

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- 2- Abbas K. A. (1993) *Management Training in the Egyptian Transport Organisations: Is there a Need for a New Approach?*

Abstract:

A questionnaire survey was undertaken in an attempt to infer the way in which senior managers of trans

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