

**Motaz Khorshid**

**Director of the Arab Council for Graduate Studies and Scientific Research  
Association of the Arab Universities**

**And**

**Professor of Decision Support and Modeling  
in Management and Economics**

**Faculty of Computers and Information**

**Cairo University – Cairo, Egypt**

**October 2006**

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**PERSONAL**

**Marital Status:** Married with two children.

**Nationality:** Egyptian.

**Language:** Arabic, English and French.

**EDUCATION**

**Ph.D. - Jan. 1981: Doctor of state in Management Sciences**  
(Doctorat D'etat es science de Gestion),  
Paris University, France. (Distinction with honor degree).

**Ph.D.- Mar.1978: Doctor of Engineering in Computer Sciences And Operations Research.**  
(Doctorat d'Ingenieur en Informatique),  
Paris University, France. (Distinction with honor degree).

**Diploma - Jul. 76 : Advanced Diploma in Computer Informatics.**  
Paris University, France. ( Distinction )

**M.Sc.-Sep.1974 :Master of Science in Industrial Engineering,** Faculty of Engineering, Cairo  
University, Egypt.

**Diploma-Nov.73 :Advanced Diploma in Economic Planning,** Institute of National Planning,  
Cairo, Egypt. (Distinction).

**B.Sc. - July 1968 : Mechanical Engineering, Ain Shams University,**Cairo, Egypt. (Good).

## PROFESSIONAL EXPERIENCE

**Director** March 2003- Now  
**Arab Council For Graduate Studies  
and Scientific Research**  
**Association of the Arab Universities**

Responsible of planning and managing the scientific, academic, training and consulting Activities of the council. Assist the Association of the Arab universities in the development and implementation of education and research policies for Arab Universities. Organize regional and international conferences and support joint regional studies and research. Coordinate academic and scientific activities with arab scientific associations.

**Vice President** January 2003- July 2006  
**For Graduate Studies and Research**

**Cairo University, Egypt.**

Responsible of developing, Planning and follow-up of Graduate Studies and Scientific Research activities on the university level. Direct and Promot relations of the university with the outside World. Representative of Cairo University in the Supreme Universities Council. Developed a medium-term scientific Research Plan for the University.

**Dean** Sept. 2002 – Dec. 2002  
**Vice Dean** Aug. 2001 - Aug. 2002  
**Department Manager** Oct. 1999 – Aug. 2001  
**Professor** Jan. 1996 - Sept. 1999

Department of Operations Research and  
Decision Support, Faculty of Computers and  
Information Sciences, Cairo University, Egypt.

Instructs graduate and undergraduate students of Decision support systems and operation research on subjects: Computer simulation models, Computer-based Decision Support Systems(DSS), Operations Research Techniques, Optimization Software modeling Systems, Computer Simulation Languages, Economy wide Modeling and Management science models. Economic databases, Social accounting matrices and systems of national accounts. Train students on computer languages and DSS Software Systems such as:

- Simulation Languages: ARENA, SIMSCRIPT
- Optimization Languages: GAMS.
- Decision Support Software: VDSS, QSB, DSSOMS.

**Chief Technical Advisor and  
Expert on Decision Support Systems in  
Socioeconomic Development Planning.**

Sept. 1993- June 1999

Department Of Economic and Social Affairs (UNDESA),  
The Statistical Division (UNSD) and UNDP, United Nation.

Advisor and Principal investigator of a project to construct and Implement a computer-based Development Planning Support System (DPSS) for Kuwait. The DPSS, which follows the DSS information technology, is particularly designed to support the formulation of medium-term plans and carry out Economic policy formulation and testing. Constructed a comprehensive set of economy wide Models for testing alternative development options and preparing consistent projections in support of the five-year plans (1995-2000) and (2000-2005). Responsible for building the socioeconomic database and associated national accounting framework . Constructed social accounting matrices for the years 1992 and 1995 as databases for Kuwait's economy wide models. Designed a model base management system (MBMS) and a computer-aided development-planning database (DPDB) within the framework of the computerized DPSS for Kuwait. Trained National staff on efficiently using computer based databases, economy-wide models and other tools of the decision support systems(DSS).

**Professor**

April 1994 – Jan. 1996

**Associate Professor**

Jan. 1987 - Mar.1994

**Assistant Professor**

Aug. 1982 - Dec. 1987

Computer and Information Science Department,  
ISSR, Cairo University.

Instructed post graduate students of operation research and computer science on subjects: "Computer simulation models, decision support systems, operations research techniques, production planning and control, quantitative methods in management and economics and economic modeling". Supervised research projects and thesis of operations research and computer science.

**Director of the Center for  
Information and Computer Systems,**

Oct. 1991-Oct. 1992

Faculty of Economics and Political Sciences,  
Cairo University, Egypt.

Responsible of managing the computer center. Organized training courses on computer sciences and applications software. Directed research work in the area of computer applications in management, economics and political sciences. Developed economy wide models and socioeconomic databases for Egypt.Worked on computer based decision support systems. Developed Sector-specific and micro-simulation models. Trained programmers of the center on the use of a number of computer aided modeling languages(GAMS, IFPS, etc.). Instructed students of the faculty of Economics and Political Sciences on computer programming and problem solving, operation research techniques and simulation modeling.

**Research Scientist**  
**Associate Research Scientist**

May 1989 - Aug. 1990  
Oct. 1985 - Apr. 1989

Economic Department, Techno-Economics Division,  
Kuwait Institute for Scientific Research (KISR).

Worked on macroeconomic and sector-specific modeling, socioeconomic data systems, simulation of real world problems, corporate planning techniques, economic assessment of projects, long-term planning of the fisheries sector and development planning techniques. Extensive development and use of general equilibrium models (CGE), Social Accounting Matrices (SAM) and, simulation and mathematical programming models. Implemented several modeling and computer simulation software packages. Trained several research assistants on modern techniques of policy analysis based on economy wide models. Designed a computer-based planning Support System to enhance the economic policy formulation and testing exercise in Kuwait.

**Expert**  
**Research Assistant**

Jan. 1981 - July 1982  
Jan. 1972 - July 1974

Industrial Planning Department,  
Institute of National Planning (INP),Cairo.

Worked on industrial economics, production planning and control, economic assessment of projects, development planning techniques, financial analysis of projects, Operations Research and scientific computations.

## **RESEARCH PROJECTS**

### **Participated in several applied research projects and studies:**

1. “Supporting the planning Process in Egypt”, July 2003 – Present  
Ministry of Planning (MOP) and United Nations  
Development Programme (UNDP).

Developed Decision Support tools for MOP based on models and socioeconomic Databases. Used developed tools to project the future performance of the economy and support the plan follow-up Processes.

2. “Government Socioeconomic Decision Support Systems Jan. – July 2003  
in the Arab States”, UNDP’s Sub-Regional  
Resource Facility for Arab States (SURF-AS)

Prepared a detailed report on the application of computer-based decision support systems (DSS) to government socioeconomic policy formulation and testing. The report covered issues related to government decision making, origin and development of DSS, ICT in the Arab countries and the experience of the Arab states in using decision support tools.

3. “Construction of Social Accounting Matrices and Economy Wide Models for Egypt” Sept. 2001 – Nov. 2003  
Information and Decision Support Center (IDSC),  
Cabinet of Ministers, Egypt.

Assembled Social Accounting Matrices for Egypt (1996-1998) and estimated an aggregate SAM for (2001-2002). Developed economy-wide models. Used models to generate the future path of the economy and assess the impact of external shocks.

4. “Vitalize the Private Sector in Kuwait” Dec. 2000 – Jan. 2001  
The World Bank (IBRD) and the Supreme  
Planning Council (SPC) of Kuwait.

Constructed and used a policy oriented multi- sector economy wide model to evaluate medium term impact of alternative policy measures and programs directed to vitalize the private sector and enhance its role in Kuwait’s development planning process.

5. “Information Technology and Automation of the Central Bank of Egypt”, The Central Bank Of Egypt (CBE), Egypt. Feb. 2000 - Present

Member of a technical team for implementing the new Information technology strategy and automating the activities of the Central Bank. Responsible of applying recent Decision Support Systems (DSS) and tools to support the bank’s senior Management staff.

6. “Economic and Fiscal Reform Program for Kuwait- Policy Formulation with medium-term Impact”. Jan. 1999- July 1999  
United Nations Development Program (UNDP),  
Kuwait University and The Ministry of Planning (MOP), Kuwait.

Constructed two economy wide public finance interaction Models to test alternative policy measures and economic options facing Kuwait during the period 2000-2005. Wrote the final reports of the study.

7. “The Impact of Gulf War Reparation Funds on the Future Performance of the Kuwaiti Economy” June 1998-Dec.1998  
Faculty of Administrative Sciences of  
Kuwait University and Public Authority for  
Assessment of Compensation of the Iraqi Aggression (PAAC) and LTC consulting, USA.

Developed a long term economy wide model to estimate the Impact of the flow of war reparation funds on the Kuwaiti Economy. Wrote the final report of the study.

8. “Assessment of the Impact of the Second Gulf War on the Performance of Kuwait’s Real estate Sector”. Mar. 1997-July 1997  
Public Authority for Assessment of Compensation of the Iraqi Aggression (PAAC) and Arab Dar Consulting, Kuwait.
- Constructed a macroeconomic real estate interaction model to assess the impact of the Iraqi aggression on the performance of the real estate sector in Kuwait and wrote chapter five of the final report.
9. “Kuwait’s Five-Year Development Plan 1995/96-1999/2000”. Jan. 1994-June 1996  
United Nations Development Program (UNDP) and The Ministry of Planning (MOP), Kuwait.
- Leader of the Database and modeling group. Constructed a social accounting matrix and other socioeconomic data base and developed two economy-wide computer-based simulation models. Used the developed planning tools to formulate and test alternative development scenarios and generate medium-term projections for the plan.
10. “An Energy Economy wide Simulation Model for Egypt” Nov. 1992-June 1994  
Organization for Energy Planning (OEP) and Institute of National Planning (INP).  
Developed and implemented a multi-sector energy economic simulation model to assess the medium term impact of energy policies related to the economic reform program updated and expanded the social accounting matrix for Egypt.
11. “The Impact of Population Policy on Development Planning in Egypt” Jan. 1993 -April 1994  
National Population Council (NPC), Egypt and Research Triangle Institute (RTI), USA.
- Constructed and used a population economy wide model to test the impact of alternative fertility scenarios on the long-term performance of the Egyptian economy.
12. “Damage Assessment of the Iraqi Invasion of Kuwait- the Economy wide Impact” Mar. 1993 - Dec.1993  
The Government of Kuwait and Arab Dar Consultants, Kuwait
- Used a computable general equilibrium model to assess the economy-wide impact of the Iraqi aggression on medium term performance of the Kuwaiti economy. Wrote chapter 9 of the study.
13. “An Agriculture Economy wide CGE Model for Egypt” May 1993 - Mar.1994  
Center for Agricultural Economics, Cairo University, Egypt.
- Constructed and used a multi-sector agriculture economic model to test the macro impact of the agriculture policies within the context of the economic reform and structural adjustment program (ERSAP) for Egypt.

14. "Economywide Modeling for Structural adjustment in Egypt", Principal Investigator, Sept. 1991 - June 1992
- Developed a dynamic multi-sector economic model to test the Economic Reform and Structural Adjustment Program (ERSAP) for Egypt, Faculty of Economics and Political Sciences, Cairo University and the American University in Cairo.
15. "Population Economic interaction Model for Egypt", Principal investigator, National Population Council (NPC) and The United Nation Development Program (UNDP). June 1991 - Aug. 1992
- Assembled social accounting matrix, labor market and population accounting system for Egypt. Developed and implemented a population-economic interact model and carried out policy analysis.
16. "Kuwait's five year Development Plan 1990/91-1994/95". Dec. 88 - June 89
- Principal investigator, Kuwait Institute for Scientific Research and the Ministry of Planning.
- Used economy wide models to assess the impact of development policies and formulate the five year development plan.
17. "Economic Models for Development Planning". Jul. 86 - Apr. 88
- Kuwait Institute for Scientific Research (KISR) and the Ministry of Planning, Kuwait.
- Developed various policy oriented Social Accounting Matrices and General Equilibrium Models for Policy formulation and testing.
18. "The Master Plan of the Fisheries Sector", Dec. 87 - Nov. 88
- Kuwait Institute for Scientific Research (KISR) and the Agriculture and Fish Resources Authority (AFRA).
- Developed a Long Term Planning Optimization Model and used it to test development options of the fisheries sector in Kuwait.
19. "Kuwait Economic Study", Kuwait Investment Authority (KIA) and Kuwait Institute for Scientific Research (KISR). Apr. 87 - July 88
- Developed the accounting framework and other National accounting systems for the macroeconomic Study. Assisted in developing a macro-model for Kuwait.
20. "Kuwait Economic Five Year Plan, 1984/85 - 1989/90", the Ministry of Planning (MOP) and KISR. Nov. 85 - Mar. 87
- Wrote the final report of the macroeconomic model.

21. “Assessment of The Public Sector Performance in Egypt”, Faculty of Commerce, Cairo University. 1984 - 1985
- Developed a corporate planning simulation model for analyzing the financial performance of industrial companies.
22. “Future Prospects of Sea-borne Trade in the ESCWA Region” , UNESCWA, Iraq. 1984 - 1985
- Led the project-developed a forecasting and linear programming models for analyzing fleet development options.
23. “An Economic Information System for Chamber of Commerce and Industry”. Chamber of Commerce, Jeddah, Saudi Arabia. 1983 - 1984
- Participated in constructing an economic information system (IS) for the chamber of commerce and Industry.
24. “Social Accounting Matrices and Economic Models for Egypt” CAPMAS, The World Bank (IBRD), Egypt. 1983 - 1984
- Technical coordinator, Developed economy wide models and conducted various policy experiments.
25. “A Financial Analysis Model for the Food Processing projects”, Egyptian and Sudanese Economic Integration Fund (ESIF), Egypt. 1983 - 1984
- Developed a financial analysis model on microcomputer.
26. “Economic Assessment of the National Navigation company”. Institute of National Planning (INP), Cairo, Egypt. 1982 - 1983
- Technical coordinator.
- Developed operation research techniques and financial analysis computer programs for the study.
27. “Economywide Modeling and SAM updating”, DRTPC, The World Bank (IBRD) and Ministry of Planning, Egypt. 1981 - 1983
- Led the computer science and modeling groups - developed a computer-based data system for the Egyptian Economy.

**worked as a consultant to a number of international and local organizations:**

* The World Bank (IBRD)	1982 - 1985
* United Nation Economic Commission for West Asia (UNESCWA) .	1984 - 1985
* Development Research and Technological Planning Center (DRTPC). Cairo University	1981 - 1984
* The Central Agency for Public Mobilization and Statistics (CAMPMS), Cairo, Egypt.	1983 - 1984
* The National Navigation Company, Cairo, Egypt	1981 - 1982
* The Chamber of Commerce and Industry, Jeddah, Saudi Arabia	1984 - 1985
* Consulting office for Managerial Development Cairo, Egypt	1982 - 1985
* El-Mohandis Information Company, Cairo, Egypt	1981 - 1982
* El-Nile Contracting Company	1990 - 1991
* The Center for Economic and Financial Research and Studies(CEFRS), Cairo University, Egypt	1991 - 1992
* The National Population Council (NPC), Egypt	1992 – 1993
* The Organization for Energy Planning (OEP)	1992 - 1993
* The Institute Of National Planning (INP), Egypt	1992 - 1993
* The Center for Agricultural Economic Studies, Cairo University, Egypt	1993 - 1994
* Research Triangle Institute (RTI),USA	1993 – 1994
* United Nations Fund for Population Activities (UNFPA)	1992 – 1993
* Department of Economic and Social Affairs (DESA) United Nations Statistics Division (UNSD)	1993 - 1999
* United Nation Development Program (UNDP)	1993 – 1999
* Arab Dar Consulting, Kuwait	1992-1993, 1995-1996
* Public Authority for Assessment of the compensation of the Iraqi aggression (PAAC)	1991-1993 , 1998-1999

* LTC Techno-Economic Consulting, North Carolina, USA	1992-1993, 1996-1999
* Bryan Cave Consulting, New York, USA	June 1999
* College of administrative Sciences, Kuwait University	Jan.- June 1999
* The Central Bank of Egypt (CBE)	Feb. 2000- Present
* The Information and Decision support System (IDSC), The Cabinet of ministers, Egypt	Sept. 2001-Oct. 2003
* The Ministry of Planning, Egypt.	Sept. 2003- Present

## COMPUTING SKILLS

- \* Extensive use of Mathematical and Statistical Modeling Software Systems: GAMS, and TSP.
- \* Advanced Working knowledge of several computer simulation programming language such as SIMSCRIPT.II.5 and ARENA.
- \* Working knowledge of the Decision Support Packages and software such as DSSOMS, Win QSB, and IFPS.
- \* Working knowledge of the procedural languages such as Fortran and Pascal and Microsoft Systems.
- \* Working Knowledge of Oracle on-line analytical process (OLAP) and Other decision support tools.

## PUBLICATIONS

### A- Refereed Papers:

1. **Khorshid M.** (2005) "Government Decision Support Systems for Socio-economic Development: Policy considerations for Arab States", IBK Papers, Series No.80, the **Industrial Bank of Kuwait** K.S.C., March.
2. **Khorshid M.**, Shehab Marzban (2005) "An Interactive GAMS-based Model Management System for Economy Wide Analysis", **Proceedings of The Third International Conference on Informatics and Systems**, Cairo University, 19-22 March.
3. **Khorshid M.**, Abdallah Al-Khayat (2005) "Development of a Decision Support Tool Based on Strategic Corporate Planning Model (An Application to A Mobile Company)", **Proceedings of The Third International Conference on Informatics and Systems**, Cairo University, 19-22 March.

4. **Khorshid M.**, Ihab A.F.El-Khodary, Hisham A. Hassan, Amany Taher Mohamed (2005) “A Conceptual Framework for a Banking Supervision Knowledge-Based Decision Support System”, **Proceedings of The Third International Conference on Informatics and Systems**, CairoUniversity, 19-22 March.
5. **Khorshid M.**, Hesham Hassan, Mohamed Abdel Hamied (2004) “Towards An Intelligent Model-Based Decision Support System for An Integrated Oil Company”, **Proceedings of The Seventh International Conference for chemical Engineering**, The Egyptian Engineers Association, Cairo, 27-29 December.
6. **Khorshid M.** (2004) “Model-Centered Government Decision Support Systems for Socioeconomic Development In The Arab World”, **Proceedings of The International Conference On Input-Output and General Equilibrium: Data, Modeling and Policy analysis**” Brussels, Belgium, 2-4 September.
7. **Khorshid M.**, Said A. Hassan, M. A. Ewees and Amr Abo-Sereai M. (2004) “ A Computer Simulation Model for Analysing A Production System” The 1<sup>st</sup> **International Conference on Information & Communication Technologics From Theory to Applications (ICTTA’04)**, Damascus, Syria, April.
8. **Khorshid M.**, Amr A. Badr, Heba A. Hassan (2004) “Constructing Fuzzy If-then Rules for Interpreting Results of Computable General Equilibrium Models”, **Proceedings of The Sixteen Annual Conference on Statistics and computer Modeling in Human and Social Science**, CairoUniversity, March.
9. **Khorshid M.**, Heba A. Hassan (2004) “Intelligent Interpretation of Results in Decision Support Systems with Application to a SAM-based Computable General Equilibrium Model for Egypt”, **Proceedings of The Sixteen Annual Confererce on Statistics and computer Modeling in Human and Social Science**, CairoUniversity, March.
10. **Khorshid M.** (2003) “Government Dicision Support Systems for Socioeconomic Development: A Review Paper”, **UNDP’s Sub-Regional Resource Facility for Arab States (SURF-AS)**, UNDP, December.
11. **Khorshid M.** (2003) “Alternative Socioeconomic Development Scenarios for Egypt: Results from an Economy-Wide Simulation Model”, published by the **Economic Research Forum (ERF)** for the Arab Countries, Iran and Turkey, December.
12. **Khorshid M.**, H. Hassan and M. Abdel-Latif (2003) “Intelligent Approaches to Model Management Systems: A Survey” The 38<sup>th</sup> **Annual Conference for Statistics, Computer Science and Operations Research**, Cairo University, December.
13. **Khorshid M.** (2002) “Impact of Fisical Reform Program on Kuwaits’ Medium-Term Economic Performance: Results from a Public Finance Economy Wide Interaction Model “**Proceedings of the Annual International Conference on Policy Modeling, European Commission and the Free University of Brussels**, Brussels, Belgium, July.
14. **Khorshid M.**,Y. Al-Ebraheem, A. Asem and M. Girgis (2002) “Using Economy Wide Simulation Models to Compute the War-Losses” “**Proceedings of the Annual International Conference on Policy Modeling, European Commission and the Free University of Brussels**, Brussels, Belgium, July.

15. **Khorshid M.** (2002) "Issue-Oriented Social Accounting Matrices for Development Policy: Experience from the Middle East and North Africa Region", The proceedings of the 14<sup>th</sup> **International Input-Output Techniques Conference**, Montreal, Canada, October 10-15.
16. **Khorshid M.** (2002) "An Issue-Oriented Macro-Micro Proto Type Economic Model for A Gulf Cooperation Council Country: Capturing Government Finance, Labor Market and Economy-Wide Interactions in Kuwait", **IBK Research Papers**, The Industrial Bank of Kuwait, Series No.68, March.
17. **Khorshid M.** (2001) "A Prototype Labor Market Economic Interaction Model for a Gulf Cooperation Council Country ", The **Middle East Business and Economic Review**, Sydney, Australia, Vol.13, No.1, July.
18. **Khorshid M.** (2001) "Estimating Medium Term Impact of Public Finance Policies in Kuwait Using an Issue-oriented Economy wide Model" The **Arab Economic Journal**, Vol.10, No. 24, Spring (in Arabic).
19. **Khorshid M.** (2001) "An Issue-Oriented Macro-Micro Prototype Economic Models for a Gulf Cooperation Council – Capturing Government Finance, Labor Market and Economy wide Interactions", **Proceedings of the 75<sup>th</sup> International Conference on Policy Modeling for European and Global Issues**, Brussels, July 5-7, 2001.
20. **Khorshid M.** and M. Kamel (2001) " An Issue-Oriented Computer-based Economy Wide Decision Support System: An application to the Kuwaiti Economy" **Proceedings of the 75<sup>th</sup> International Conference on Policy Modeling for European and Global Issues**, Brussels, July 5-7, 2001.
21. **Khorshid M.** (2000) " A Prototype Labor Market Economic Interaction Model for A Gulf Cooperation Council Country- Impact of Structural Imbalances and Policy Measures on Medium-term Performance", **Proceedings of the Economic Research Forum (ERF) Seventh Annual Conference**, Amman, Jordan, 26-29 October.
22. **Khorshid M.** and Y. Al-Ebraheem (2000) "Development Path of the Kuwaiti economy Following the Asian Crisis: Estimation of Damages and Lost Opprtunities" **Arab Journal of Administrative Sciences**, Vol.7, No.3, September.
23. **Khorshid M.** (1997) "Analysis of Labor Markets Using Economy wide Simulation Models- Theoretical Considerations and Practical Applications" **Finance & Industry** No 15, pp7-68.
24. Sirageldin I. and **Khorshid M.** (1996) "Human Resources Development and The Structure Of Oil Economies: Critical Issues With Illustration From Kuwait" **Research in Human Capital and Development**, Vol.9, Pages 49-78.
25. **Khorshid M.** and H. Hassan (1996) "Experimental Optimization Using Computer Simulation Models", **Proceedings of the 8<sup>th</sup> Conference on Statistics and Computational models in Social and Human Sciences**, Faculty of Economics and Political Sciences, Cairo University, Egypt, 9-11, March.

26. **Khorshid. M.**, M.H.Rasmy and N.Said (1996) "A Computer Simulation Model for Analyzing the Accounting System of Industrial Companies", **Proceedings of the 30<sup>th</sup> Annual Conference on Statistics, Computer Science and Operations Research**, Vol.30, ISSR, Cairo University, 18-20 December.
27. M.H.Rasmy, **Khorshid M.** and F. Mohamd (1995) "A Simulation Modeling System for Corporate Financial planning" Companies", **Proceedings of the 6<sup>th</sup> International Conference on Computer Theory and application**, Cairo, Egypt.
28. **Khorshid M.** (1995) "Towards a Computer-Aided Economic Planning Support System", **Decision Support Systems**, The International Journal, North Hollan, Vol.13, No.2, February.
29. **Khorshid M.**(1995) "An Agriculture Economy wide Simulation Model for Egypt: Database, Structure and Policy Analysis", **Finance And Industry**, Kuwait, No. 13, pp.15-102.
30. **Khorshid M.**(1994) "A Multi-sector Population Economy wide Simulation Model for Egypt" **Finance and Industry**, Kuwait , No.12, November.
31. **Khorshid M.**(1994) "A Dynamic Multi-sector Economywide Simulation Model for Egypt: Data Base, Structure And policy Analysis" **IBK Research Papers**, The Industrial Bank Of Kuwait, Series No.41, June.
32. **Khorshid M.**(1993) "Fisheries Development Planning in Kuwait: An Integer Programming Model", **European Journal of Operational Research, North Holland**, Vol. 64, pp.338-358.
33. **Khorshid M.** and A. Hussein (1993) "Event Scheduling, Look Ahead and Three-phase Computer Simulation Models.", **Advances in Modelling and Analysis, AMSE**, France, Vol. 25, No.1, pp. 19-34.
34. **Khorshid M.** (1993) "The Contribution of Computer Modeling Languages to Operations Research Methodology: A Comparative Analysis "The 28<sup>th</sup> Annual Conference for Statistics, Computer Science and Operations Research, Cairo University, 18-20 December.
35. **Khorshid M.** and A.A.Eliman(1992) "Future Prospects of Tankers Fleet development in West Asia:A Linear Programming Model **The 27<sup>th</sup> Annual Conference for Statistics, Computer Science and Operations Research**, Cairo University, 19-21 December.
36. **Khorshid M.** (1992) "An Aggregate Macro economic Simulation Model for The Palestinian Economy: Structure, Medium-term Projection" **The 27<sup>th</sup> Annual Conference for Statistics, Computer Science and Operations Research**, Cairo University, 19-21 December.
37. **Khorshid M.** (1991) "The Modelling of Labor Market in Economywide Simulation Models.", **Proceedings of Third Annual Conference on Statistics, Computational Models and Computer Applications in Social Sciences**. Faculty of Economics and Political Sciences, Cairo University, 15-17, Feb.

38. **Khorshid M.** (1991) "A Social-accounting-matrix based Long-term Model for a Gulf Cooperation Council Country.", **Economic System Research, Journal of the International Input output Association, Austria** ,Vol.3, No.3, PP. 229-314.
39. **Khorshid M.** (1990) "A Dynamic Macroeconomic Model for Kuwait: Analysis of The Medium Term Path: **Energy Economics**, United Kingdom , Vol.12, No. 4, pp. 289-301.
40. **Khorshid M.** (1990) "Medium Term Growth Projections for Kuwait from A Dynamic CGE Model.", in L. Taylor (ed) "Socially Relevant Policy Analysis: Structuralist Computable General Equilibrium Models for Developing World." the **MIT Press**, Cambridge, PP. 333-357.
41. **Khorshid M.** and G. R. Morgan (1990) "A Modelling Framework for Fisheries Development Planning" **Journal of Ocean and Shoreline Management**.Vol.14, pp.11- 33.
42. **Khorshid M.** (1989) "Structural Features and Growth Prospects for The Kuwait Economy." **World Bank Publication** on Global Prospects. The World Bank, Washington, April .
43. **Khorshid M.** (1989) "A Dynamic Multi-sector Economywide Model for Kuwait: The Impact on Growth, Welfare and Population Balance.", **Proceedings of the 6<sup>th</sup> IFAC/SEDC Symposium on Dynamic Modelling and National Economics**. Vol. II, Edinburgh, 27-29, June.
44. **Khorshid M.** (1988) "Mathematical Models and Simulation in Decision Making and Future Studies.", **ALAM-AL-FIKR**, Vol.18, No. 4. Kuwait, March.
45. **Khorshid M.** (1987) "Forecasting Crude Oil Pattern in West Asia Region: A Scenario Simulation Approach.", **Finance and Industry, IBK**, No. 8, Kuwait.
46. **Khorshid M.** (1987) "A Corporate Simulation Model for Policy Experiments: The Case of Gulf Paper Manufacturing Company.", **Proceedings of the 1987 Summer Computer Simulation Conference**. Montreal, Canada. July 27-30.
47. **Khorshid M.** and M. Al-Sabah (1987) "An Aggregate SAM-based Model for Policy Experiments.", **Proceedings of the International Symposium on the Social Accounting Matrix, Methods and Applications**, Naples, Italy, June 17-19.
48. **Khorshid M.** and O. M. Osman (1986) "An Economy Wide Model for Simulating the Behavior of the Egyptian Economy", **Paper No. (1420), the INP, Egypt, July**.
49. **Khorshid M.** (1986) "National Accounts and Social Accounting Matrices- An Application to the Kuwaiti Economy" **Finance and Industry, IBK**, No. 7, December.
50. **Khorshid M.** (1985) "The Computerized TV Approach to Economic Modelling: An Application to Egypt", The **IBK. Paper Series** No. 18, August.
51. **Khorshid M.** (1985) "A Conceptual Review and Analysis of Global Models.", **The Egyptian Computer Journal**, Vol. 13, November.

52. **Khorshid M.** and A. F. Abdel-Khalik (1985) "A Corporate Simulation Model for Evaluating Financial Performance of Industrial Projects.", **Proceedings of the 20<sup>th</sup> Annual Conference on Statistics, Computer Science, and Operations Research**, December.
53. **Khorshid M.** (1984) "Sample Size in Steady State Computer Simulation - An Empirical Investigation.", **Proceedings of the 19<sup>th</sup> Annual Conference on Statistics, Computer Science, and Operations Research**, December.
54. **Khorshid M.** and R. Cannone (1984) "La Gestion Experimentale au Moyen Des Modeles De Simulation-Cas d'un Atelier De Production. ", **Le Proceeding du 6 Congres International de Cybernetique et de Systematique**, Paris, 10-14 September.
55. **Khorshid M.** (1984) "An Integrated Framework for Experimental Investigation by Simulation Models", **Paper No. (1390), The Institute of National Planning**, Cairo, Jan.
56. **Khorshid M.** and O. Hegazy, (1983) "An Economic Database in a Social Accounting Framework", **The Egyptian Computer Journal**, Vol. 11, No. 1, June.
57. **Khorshid M.** (1983) "The Principal Component Analysis Applied to Regression Models." **The Egyptian Computer Journal**. Vol. 11, No. 2. December.
58. **Khorshid M.** and A. Checroun (1981) "Experimental Optimization by Simulation Techniques.", **Proceedings of the International Congress on Applied System Research**, New York.
59. **Khorshid M.** and M.F. Hassan. (1975) "Computerized Techniques for Hospital Layout". **The 11<sup>th</sup> Annual Conference for Statistics and Scientific Computations**. Cairo 14-17, April.
60. **Khorshid M.** (1975) "Layout of Facilities - An Introductory Approach and Review of Techniques" **Paper No. (437), Institute of National Planning**, Cairo.
61. M. F. Hassan and **Khorshid M.** (1974) "Computerized Layout of Production Facilities-A Case Study", **Egyptian Computer Journal**, Vol. 3, No. 1
62. **Khorshid M.** and M.F. Hassan. (1974) "An Experimental Investigation and Comparative Evaluation for some Sub-optimal Algorithm of Layout of Production Facilities", **The 10<sup>th</sup> Annual Conference for Statistics and Scientific Computations**, October.

## B. Technical Reports

1. **Khorshid M** (2006) “ Cairo University Plan for Scientific Research – the general Framework” Cairo University, June 15.
2. **Khorshid M** (2006) “ Cairo University Project for enhancing post Graduate studies” Cairo University , July 20.
3. **Khorshid M.** (2005) “Diversification Strategies of Higher Education Systems and their Funding needs: Policies, Programmes and International Experience” **Weghat Nazar**, Vol.7, Issue 75, April.
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