Curriculum Vita

Of

Dr. Esam El-Din Ahmed Ibrahim Rakha

PERSONAL DATA

Name : Esam El-Din Ahmed Ibrahim Rakha
Place of Birth : Mansoura – Egypt
Nationality: Egyptian   **Previous (if any):** none
Religion : Moslem

Permanent Address :		(10) Khafraa St., Off El-Togary, Sheikh Zaied Ismailia – EGYPT
Phone in Egypt	**:**	(Home) +2 064 3339024 (Mobile) +2 010 5204285
Phone in KSA	**:**	(Home) +966 03 5885042 (Mobile) +966 054 2270966
E-Mail	**:**	eiscis@yahoo.com
Work Address in Egypt	**:**	Mathematics Department Faculty of Science Suez Canal University Ismailia – 41522 EGYPT
Work Address in KSA	**:**	Mathematics Department Faculty of Science King Faisal University ALAHSA

MARITAL STATUS

Marital Status : Married

Nationality of Spouse : Egyptian

Nature and Place of Work of Spouse : Faculty of Pharmacy – Suez Canal University, Ismailia – Egypt

Religion : Moslem

Number of Children : Two.

ACADEMIC QUALIFICATIONS

First University Degree : (B. Sc.)
Name of Degree : B. Sc.   **Date degree awarded :** 1981
College (or Faculty) : Faculty of Science – Mathematics Department
Name and location of University : University of Garyounis – Benghazi – Libya.
Specialization : *Mathematics*

Second University Degree : (M. Sc.)
Name of Degree : M. Sc.   **Date degree awarded :** 1989
College (or Faculty) : Faculty of Science – Mathematics Department
Name and location of University : Suez Canal University, Ismailia - Egypt
Specialization : Mathematics (*Lie Algebras*)
Title of Thesis : *On Subalgebras of real Lie algebras*

Third University Degree : (Ph. D.)
Name of Degree : Ph. D.   **Date degree awarded :** 1998
College (or Faculty) : Mathematics Departments - Faculty of Science
Name and location of University : Suez Canal University, Ismailia – Egypt and,
Specialization : Statistics (*Sequential Analysis & Decision Optimality*)
Title of Thesis : *Sequential Methods in Statistics and Optimal Statistical Decisions*.

Other Certificates obtained or advanced courses attended :
- A workshop on , Teaching Mathematics with Mathematica; C.I.M.P.A. and Suez Canal University, May 1993, Ismailia – Egypt.
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- Pedagogical Qualification of University Faculty Staff, Faculty of Education, March., 26nd , 1988 to April., 7th , 1988; Suez Canal University, Ismailia – Egypt.
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- 19TH International Conference For Statistics, Computer Science, Scientific & Social Applications; Cairo- Egypt, 9-14 April 1994.
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- First International Conference on Operations Research And Its Applications; Higher Technological Institute, Ramadan 10TH City- Egypt, 25-26 December 1994.
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- One Day Conference on Mathematical Statistics and its applications, Zagazeg University, 28-April 1998, Zagazeg- Egypt.

LANGUAGES

Language Proficiency	Reading			Writing			Conversation		
	Excellent	Fair	Weak	Excellent	Fair	Weak	Excellent	Fair	Weak
Arabic	X			x			x		
English	X			x			x		

COMPUTER USE

Using computer in :
- Preparing & Publishing documents with ; Latex, SWP, Microsoft Word, HTML Publisher and Publicon.
- CAS; Mathematica, Maple, Matlab and Macsyma.
- Data management in Statistics using statistical packages as (CSS:Statistica, Systat, SPSS, Σ-stat, and Statgraphics,….)
- Programming using many languages as (Basic, visual basic, visual C,……)

EMPLOYMENT HISTORY

Institution (Place of Work)	Period		Title of Job	Nature of Work	Type of Work
	From	To			
Suez Canal University Ismailia- Egypt	1983	1989	|Demonstrator	Research & Teaching	Full Time
Suez Canal University Ismailia- Egypt	1989	1998	Asst. Lecturer	Research & Teaching	Full Time
Suez Canal University Ismailia- Egypt	1998	--	Lecturer	Research & Teaching	Full Time
Ismailia For Computers & Information Systems (ISCIS), Ismailia- Egypt	1994	2006	General Manger	Management , Statistician & Programmer	Part Time

UNIVERSITY TEACHING

- **Courses taught at university level (*Statistics and Probability*):**

Institution	Title of Course	Language of Instruction
◄ Faculty of Science : (**Under graduate**)	- Introduction To Statistics & Computer Science **I .**	English
	- Introduction To Statistics & Computer Science **II .**	English
	- Introduction To Probability Theory with Mini tab. & stat. disk **I .**	English
	- Introduction To Probability Theory with Mini tab. & stat. disk **II .**	English
	- Sampling Techniques.	English
	- Experimental Design.	English
	- Decision Theory .	English
(**Post graduate**)	- Computer Applications in Biological & Physical Science.	English
	- Statistical Software in Basic Sciences.	English
◄ Faculty of Information & Computers :	- Introduction To Statistics & Computer Science **I .**	English
	- Introduction To Statistics & Computer Science **II .**	English
	- Introduction To Probability Theory with Mini tab. & stat. disk **I .**	English
	- Sampling Techniques.	English
◄ Faculty of Education :	Same Courses as in Faculty of Science with different applications (Educational & Social appl.) using SPSS packages.	Arabic
◄ Faculty of Dentistry : (**Post graduate**)	- Introduction To Statistics & Computer Science **.**	English

- **Courses which prepared to teach (*Statistics and Probability*):**

Institution	Title of Course	Language of Instruction
- Faculty of Science :	- Sequential Analysis and its applications in Clinical Trials using Computers.	English
	- Computer Applications in Decision Theory.	English
	- Expert Systems in Statistics.	English
	- Algorithm for Bandit Problem.	English
	- Algorithm for Bandit Problem (Optimal Policy).	English

- **Projects Supervision**; (Forth *year students*) **:**

  1. An algorithm for the Probability Distributions (Discrete & Continues).
  2. An algorithm for the Correlation & Regression analysis.
  3. An algorithm for the Factor analysis.

- **Laboratories Presidency :**

Laboratory Name	Number of Laboratories	Period	
		From	To
Under graduate Computer Lab.	Four	1998	2006
Post graduate Computer Lab.	Four	1998	2006

- **Course development activities :**

  1. Free study in Computer Hardware (Collecting PC's & Maintenance).
  2. Free study in Local Area Network (LAN); using;

Windows 3.11	Windows 95	Windows 98
Windows NT	Novell.	Windows XP

  3. Free study in information theory and using databases;(under supervision of ***Memco International Company*** & The ***Electronic Library Of Egypt***)

- **Ph. D. Supervision:**
  1. Crack detection using image processing (2005).
  2. On some new ageing concepts with applications (2009).

LIST OF PUBLICATIONS

IN NANO

1. I. A. Ismail, **E. A. Rakha**, S. I. Zaki, **A, Aljaafari**, M. A. Ashabrawy," Using image's processing methods in Nano measurements ", King Abdullah Institute for Nano Technology, ICNI 2009,   http://nano.ksu.edu.sa, Riyadh, **2009**.

IN NUCLEAR

2. I. A.Ismail, **E. A. Rakha**, S. I. Zaki, M. A. Ashabrawy, M. K. Shaat, " Perceptible Grouping of Cracks in nuclear piping using wavelet transformation ", International journal of computer and electrical engineering (**IJCEE**), http://www.iacsit.org./IJCEE.htm, **2009**.

3. I.A. Ismail, **E. A. Rakha**, N. A. Ayad, M. A. Ashabrawy, " Finding the Depth from One View Image ", Organization of Egypt for nuclear Science, **2009**.

IN BIO-TECHNOLOGY

4. I. A. Ismail, **E. A. Rakha**, S. I. Zaki, M. A. Ashabrawy, " Using image's processing methods in Bio-Technology", International Journal of Open Problems in Computer Science and   Mathematics (**IJOPCM**), http://www.ijopcm.org/sub1.html, **2009**.

IN NATURAL SCINCES

5. I. A. Ismail, **E. A. Rakha**, S. I. Zaki, M. A. Ashabrawy, M. K. Shaat, " Crack detection and   filling, using steepest descent method ", International journal of computer and electrical   engineering (**IJCEE**), http://www.iacsit.org./IJCEE.htm, **2009**.

IN LIFE DISTRIBUTION

6. A. N. Ahmed, H. M. Hewedi, **E. A. Rakha** and E. M.Shokry, On a Life Distribution Family Based on Total Time on Test on Average: NBUTA, **InterStat,2008.**

7. A. N. Ahmed, H. M. Hewedi, **E. A. Rakha** and E. M.Shokry, A New Class Of Life Distributions Based On a Property Of The Coefficient Of Variation, **InterStat,2008**.

8. E. M.Shokry, A. N. Ahmed, **E. A. Rakha** and, H. M. Hewedi, New results on the NBUFR and NBUE classes of life distributions, *InterStat,*2009 .

IN OPTIMAL STATISTICAL DECISIONS (SEQUENTIAL ANALYSIS)

9. A. A. Abdel Hamid & **E. A. Rakha**, An Algorithm For The Bandit Problem , Journal of Advances in Modeling & Analysis, A, Vol. 25, No. 2, 17 - 36, **1995**.

10. A. A. Abdel Hamid & **E. A. Rakha**, An Algorithm For The Bandit Problem – Optimal Policy, Journal of Advances in Modeling & Analysis, A, Vol. 29, No. 2, 11 - 24, **1995**.

11. A. A. Abdel Hamid & **E. A. Rakha**, An Algorithm For The Best Allocation Rule Based On Rationality Concept, Conference on Operations Research And Its Applications; Higher Technological Institute, Ramadan 10TH City- Egypt, September **1998**.

MEMBERSHIP OF PROFESIONAL ORGANIZATIONS

Name of Organization or Society	Membership Period		Nature of Membership
	From	To	
Egyptian Syndicate of Science Professions	1983	--	Individual
Egyptian Mathematical Society	1990	--	Individual
American Statistical Association	1998	--	Individual