

## CURRICULUM VITAE

### Personal data:

Ahmed Mohamed Rashad Moussa

Department: Quantitative Methods & Inf. System'

Date of Birth: February 19, 1946 Four.

Place of Birth: Cairo, Egypt

Nationality: Egyptian

Sex: Male

Permanent Address: Helwan University, Faculty of Science, Math.  
Dept. Cairo, Egypt.

e-mail : [armoussa@hotmail.com](mailto:armoussa@hotmail.com)

### Academic Qualifications:

- a. B. Sc. Pure Math. & Stat., Dept. Faculty of Sc., Ain-Shams Univ.(Very Good) May, 1968
- b. Highest degree attained: Ph.D
- c. Major field of specialization: Probability Theory
- d. Special field of specialization: Information Theory
- e. Institute issuing Ph.D degree: Moscow State Univ., Faculty of Mathematics, Dept. of Probability & Mathematical Statistics.
- f. Date degree conferred: October 27, 1978
- g. Title of Ph.D Thesis: Some Problems of Theory of Random Design for Screening Experiments.
- h. Interesting fields: Information Th., Theory of Codes, Combinatorial analysis, Graph theory, and discrete Math.

### Teaching Experience:

#### A) Position

- a. 1991 – to date *Professor of Mathematical statistics*
  - b. 1984 – 1991 *Associate Prof.*
  - c. 1978 – 1984 *Assistant Prof.*
  - d. 1968 – 1978 *Assistant Prof.*
- ( Included mission to Moscow Stat University 1973-1978)

#### B) Place of job

- a. 1968 –1971 *Faculty of engineering Ain-Shams Univ.*
- b. 1971-1981 *Faculty of Science Mansoura Univ.*
- c. 1981- 1997 *Faculty of Science Benha Univ.*
- d. 1984- 1990 *Faculty of Science Kuwait Univ.*
- f. 1997- to date *Faculty of Science Helwan Univ.*
- g. 1999 – 2004 *College of business Administration*

Membership in professional Organizations:

- a. Egyptian Mathematical Society
- b. Reviewer for Mathematical Reviews

Academic, Administrative or related Experience:

- a. Vic-Dean of faculty of Science.
- b. Member of faculty Council
- c. T.A Coordinator State. & O.R. Department Kuwait Univ.

Research & Publications:

- [1] A.M. Rashad & A. Habib, "On One Search Model of False Coins," Egypton Statistical Journal, Vol. 25, pp. 24-32, 1981.
- [2] A.M. Rashad, "Upper Bounds of Error Probability For  $F_{k,n}$  Ensemble of Random Codes," Egypton statistical Journal, Vol. 27, pp. 56-61: 1983.
- [3] A.M. Rashad, " A Lower Bound to the Probability of Error For Discrete Memory less Noisy Channel," Journal of the Faculty of Education, Ain - Shams Univ. vol. 7, part 1, 221 - 226:1984.
- [4] A.M. Rashad, "The Lower Bound to The Average Error Probability Over  $F_{k,1}$  Ensemble of Codes, " Bulletin of The Faculty of Science Zagazig Univ., 10, (Part Two) 114 – 120, ( 1988 )
- [5] Rashad A.M., " On Symmetrical superimposed codes," J. Inf. Process. Cybern. EIK, vol.7, pp 337 – 341; (1989)
- [6] A.G. Gyachkow, U.V. Rykov, A.M. Rashad, "Super imposed distance codes," Problems of Control and Infor. Theory, vol. 18(4), pp 237 – 250; ( 1989 )
- [7] A.G. Dyachkow, A.M. Rashad, "Universal Decoding for Random Design of Screening Experiments; "Microelectronic and Reliability J., Vol. 29, No. 6, pp. 965 – 971; 1989
- [8] Rashad A.M., " Random Coding bounds on the rate for list-decoding super imposed codes," Problems, control and Infor. Theory, vol. 19,N. 2, (1990) pp141-149.
- [9] Rashad A.M., "Superimposed codes For The Search Model Of A. Renyi" Inter. J. Computer Math., Vol. 36, (1990), pp47-56.
- [10] Rashad A. M., "A Combinatorial Problem in Super imposed code Theory," Inter. J. Computer Math. (U.K.), Vol 46 No 1-2 (1992)
- [11] Rashad A. M. & et al., "Multistage Point and Confidence Interval Estimation of the Shape Parameter of Pareto Distribution"; The Korean Communications in Statistics Vol. 10 No. 3, 2003 pp. 1069-1086.  
Korean Communications in Statistics Vol. 10 No. 3, 2003 pp. 1069-1086.

Papers Presented at Conferences:

[1] Rashad A.M., " Asymptotic Upper Bounds to Average Probability of Decoding Error Over Ensemble Code with Dependent Code Words," Ninth International Congress For Statistics, Computer Sc., Social and Demographic Research, Ain - Shams Univ. Egypt, March 31- April 5, 1984.

[2] A. G. Dyachkov, A.M. Rashad, " On asymptotic of length for random screening designs `The fifth International Vilnius conference of probability theory and Mathematical Statistics (USSR).

[3] Rashad A.M., Bounds On The Length of Symmetrical Codes, "The 24<sup>th</sup> Annual Conference of Statistical, Computer Science, and Operation Research, Cairo University. Dec. 1989).

[4] Rashad A. M. & et al., " Mathematical modeling in public health with special emphasis on infection diseases " The first international conference of operations research and its applications, Cairo, 25 - 26 December 1994.

[5] Rashad A. M. & et al., " The Role of Negative Binomial Sampling In Determining the Distribution Of Minimum Chi-Square", The 38<sup>th</sup> Annual Conference of Statistical, Computer Science, and Operation Research, Cairo University. 13-16 Dec. 2003.

Community Service:

- a. Participate in training course on Statistical Methods by using the stat. Packages. (Kuwait University).
- b. Coordinator training course of Statistical Methods by using the stat. Packages. (Ben ha University. 1993 & 1994).

Graduate Thesis Supervised at Ph.D. / Master's level:

- a. Four Ph.D. degrees
- b. More than 10 Master degrees

Courses Taught at University level

i) Undergraduate Courses

- Introduction to Probability Theory
- Statistical Methods by Using Statistical packages
- Discrete Structures
- Finite Mathematics
- Theory of Statistics

- Theory of Information
- Nonparametric statistics
- Experimental Designs
- Regression Analysis

b. Introduction to computer Science - Benha Univ. (1993 - 94)

c. Course in statistics by using the Minitab package - Egypt (1994)

ii) Graduate Courses

- a. Probability Theory
- b. Information Theory
- c. Discrete Structures

Conferences and Symposiums Attended

- 1) Symposium on Sciences and Engineering Education in the 21<sup>st</sup> century, 9-12 April 1995, The American University in Cairo.
- 2) Computer Education in Egyptian Universities, Sponsored by The Egyptian Mathematical Society, January 1995.
- 3) Higher Education in Egypt and The Challengers of The 21<sup>st</sup> century, Monoufia University, May 1996
- 4) Mathematics of the Pre- University Stages, Sponsored by The Egyptian Mathematical Society & Ain- Shams University, June 1996.
- 5) Development of Faculties of Education In Accordance with the Recommendations of National Conference on Teacher Rehabilitation, Sponsored by Faculty of Education, Benha University, Feb. 1997.
- 6) The 38<sup>th</sup> Annual Conference of Statistical, Computer Science, and Operation Research, Cairo University. Dec. 2004.