1-3-2016

CURRICULUM VITAE

Dr. ADNAN M. AWAD

PART 1: PERSONAL DETAILS

Name	: Adnan Mohammed Ahmad Awad	**Present Position / Work Address:**
Academic Rank	: Professor	
Year Rank Obtained	: 1988	Professor of Math. & Stat.
Specialization	: Mathematical Statistics	Department of Mathematics,
Languages	: Arabic, and English	Faculty of Science,
Nationality	: Jordanian	The Jordan University,
Place and Date of Birth	: Innaba, 1/1/1947	Amman 11942,
Marital Status	: Married	Jordan.
Number of Children	: 9 (5 Males and 4 Females)	
Home Tel.	: 00-962-6-5346532	**Home Address:**
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https://djasljsa.academia.edu/AdnanAwad/Papers
http://science.ju.edu.jo/Departments/DeptStaff.aspx?DeptName=Mathematics
https://www.researchgate.net/profile/Adnan_Awad
http://scholar.google.com/citations?hl=en&user=JOPMMaUAAAAJ

PART 2 : QUALIFICATIONS
Academic Qualifications

Degree	University	Field & Notes	Year
Ph.D.	Yale University, New Haven, Ct., USA.	Field : Statistics Thesis Title: " A Martingale Approach to the Asymptotic Normality of Posterior Distributions." Supervisor : Professor John Hartigan. Honors Grade in each of the Ph.D. credit courses. Scholarship from Yarmouk University, Jordan, to get Ph.D. in Statistics.	1978
M. Phil.	Yale University, New Haven, Ct., USA.	Field : Statistics Note: A transfer credit of one year was approved for the graduate work at the University of Jordan.	1977
M. Sc.	University of Jordan, Amman, Jordan.	Field : Mathematics Thesis Title: " On Non-central Distributions and Approximations to Distributions of the Randomized Gamma Type" Supervisor : Professor Adnan Ifram . Ranked first with distinction. Cumulative average: 92.5%	1974
B. Sc.	University of Jordan, Amman, Jordan.	Field : Mathematics Ranked first with distinction. Cumulative average: 91.4% Scholarship from Ministry of Education, Jordan, to get B.Sc. in Mathematics.	1971
High School Diploma	Ministry of Education, Jordan	Field : Science Stream Cumulative average: 85.4%	1967
School Education	1965-1967 : Grades 11 and 12, Hisham ben Abdulmalik School, Jareko, Jordan.		
	1964-1965 : Grade 10, Aqabqt Jaber Secondary School, Jordan.		
	1961-1964: Grades 7 - 9, Aqabat Jaber Preparatory School, Jordan.		
	1953-1961: Grades K1, K2 and 1 - 6, Y.M.C.A. School, Aqabat Jaber, Jordan.		

Educational & Teaching Qualifications
Attended training teaching courses or workshops

- Temporary Teacheing Liscence, Ministry of Education, Jordan, 1971
- Three training programs on teaching modern mathematics, 1971-1972, Ministry of Education, Jordan.
- A six weeks training program for Secondary School Teachers: Teaching of Modern Mathematics, 1972, American University of Beirut, Lebanon.
- Educational Lisence, Ministry of Education, Jordan, 1975

- Basic Web Technology Skills For Courseware Development, 8-12 October 2000, UNESCO SPPD Project and Jordan University, Jordan.
- IDAMS statistical package using VSAT, ALECSO and Jordan TV, 25—26-2004
- IDAMS statistical package, ALECSO and Cairo University, 29-5 to 2-6-2004

PART 3 : JOB HISTORY

Full Time Jobs

1971-1976: Ministry of Education, Jordan

- High School Mathematics Teacher, **Al-Taj Secondary School**, Amman, (Starting 27/10/1971)
- High School Mathematics Teacher, **King Hussain Collage**, Amman, (Starting 1/10/1973)
- Community Collage Lecturer, **Amman Community Collage**, Amman, (Starting 1/10/1974)

1978-1986 : Departments of Mathematics & Statistics, Yarmouk University , Irbid, Jordan:

- Assistant Professor (Starting 25/11/1978),
- Associate Professor (Promotion date 16/9/1983) .

1986- ON : Department of Mathematics, Jordan University, Amman, Jordan.

- Associate Professor (Starting 6/9/1986), (Employment # 100745).
- Professor (Promation date 2/10/1988), (Tenureship date 13/9/1992).

Research Sabatical Years

- 1984-1985 : Visiting Professor, Department of Mathematics, **Kuwait University**, Kuwait. On Sabbatical leave from Yarmouk University. (Starting 1/9/1984)
- 1993-1994 : Professor, Director of the Department of Math. and Computer Science, **Jordan University for Women** (Now: **Petra University**), Amman, Jordan. On Sabbatical Leave from Jordan University. (Starting 1/9/1993)
- 1999-2000: Department of Mathematics, **Al albayet University**, Al Mafraq, Jordan. (On Sabbatical Leave from University of Jordan.)
- 2006-2007: Department of Mathematics, **Al Zaytonneh University**, Amman, Jordan. (On Sabbatical Leave from University of Jordan.)
- 2013-2014: Department of Mathematics, **Al Balqa Applied University**, Alsalt, Jordan. (On Sabbatical Leave from University of Jordan.)

Academic Promotions

- 25/11/1978   Appointment in Yarmouk University in the rank of Assistant Professor

- 16/9/1983 Promotion to the rank of Associate Professor, Yarmouk University.
- 25/11/1986 Third year in the rank of Associate Professor, Jordan University.
- 31/1/1988 One credited year in salary and in rank, Jordan University.
- 3/4/1988 Change of status to class A in the rank of Associate Professor, Jordan University.
- 2/10/1988 Promotion to the Professorship rank ‚Jordan University.
- 13/9/1992 Tenureship , Jordan University.

Administrative Jobs

- Head of Department of Statistics at Yarmouk University (1983-1986: 3 years).

- Head of Department of Mathematics at University of Jordan (1989-1990: 1 year).

- Head of Department of Mathematics and Computer Science at Jordan University for Women, (Petra University), (1993-1994: 1 year).

- Vice Dean of the faculty of Graduate Studies, University of Jordan (1998-1999:1 year).

- Vice Dean of the Faculty of Research and Graduate Studies, Al-albayt University (1999-2000: 1 year).

- Chairman of Central Tenders Committee, Jordan University (2002 :3 months).

- Main Library Director, Jordan University (???? , 6 months).

Part Time Jobs

- High School Teacher, **Orthodox High Schools**, Amman 1971-1973.
- High School Teacher, in **Al-Ahli Center** 1973-1976.
- Lectureuor, Mathematics Department, **Jordan University**, 1974-1976.
- Grader, Department of Statistics, **Yale University**, 1977.
- Associate Professor, Mathematics Department, **Jordan University**, Summer of 1986.
- Professor, Mathematics Department, **Amman Private University**, Amman, Jordan, Summer 1991
- Professor, Mathematics Department, **Hashemite University**, Zarqa, Jordan, Summer of 1997

PART 4 : MEMBERSHIP IN PROFESSIONAL BODIES

Membership of Institutions

- Mathematical Association of America 1976-1979.
- Institute of Mathematical Statistics 1976-1980.
- Yale Science and Engineering Association, 1982-1987.

- Islamic Studies and Research Association, 1982-1985.
- International Statistical Institute, 1991-2006
- Jordanian Mathematical Association, 1992-1995
- American Mathematical Association, 1997-2016

On Editorial Boards of Research Journals

On the Editorial Board of the following National and International Journals:
- Aligarh J. of Statistics , Aligarh Muslim University, India, 1998-…
- Journal of Statistics , Lahore University, Pakistan 2009 - …
- Pakistan Journal of Statistics and Operation Research, Punjab University, Pakistan 2010 - …. **.**
- Pakistan Journal of Statistics 2012-…
- International Journal of Advanced Statistics and Probability 2013-….
- DIRASAT (Scientific Journal Published by University of Jordan, Jordan),   (2 years)
- Al- Manarah (Scientific Journal Published by Al albayet University, Jordan), (1 year)
- AL-Balqa (Scientific Journal Published by Amman Private University, Jordan), (2 years)

PART 5 : PROFETIONAL INTERESTS & CONFERENCES

Research Interests
- Information Theory : Measures & Statistical Applications
- Statistical Inference : Classical & Bayesian
- Probability Theory : Distributions Theory, Asymptotic Theory and Stochastic Processes
- Life Testing and Reliability Theory
- Optimality of Censoring Schemes
- Computer Intensive Statistical Methods
- Statistical Applications: Prediction Analysis, Goodness of Fit, Bio-equivalence Studies.

Educational Interests
- Development of programmed teaching material for open universities.
- Development of teaching methods and aided computer instructing materials.
- Training teachers.
- Writing text books in both languages Arabic and English
- Translating Mathematics and Statistics text books from English to Arabic.

Conferences, Workshops & Seminars
Participated and presented papers in
- 23 Scientific Conferences

- 16 Workshops and conferences on education and information technology
- 3 One Day Seminars
- Several Departmental Seminars

PART 6 : GRANTS & HONORS

Research Grants
- On the Akaike Information Criterion, Research #236, Meeting #10/91-92, Research Council, University of Jordan, Amman, Jordan, 1992-1994
- On Statistical Computer Intensive Methods, Research #9/3/94, Meeting #3/94-95, Research Council, University of Jordan, Amman, Jordan, 1995-1997.
- Mathematical Applications of Mathematica 4, ????, Research Council, University of Jordan, Amman, Jordan,

Honors, Prizes, Medals & Awards
- High teaching evaluation at the Faculty of Science, Yarmouk University, Irbid, Jordan, 1983
- High research evaluation at the Faculty of Science, Yarmouk University, Irbid, Jordan, 1984
- Abdul-Hammed Shoman Prize for Young Arab Scientists in Mathematics and Computer Science, Amman, Jordan, 1987

PART 7 : EXPERIENCES

Experience in Statistical Consultations
Performed consultations in different fields such as education, bioavailability, medicine, engineering, biology, business, economy, etc.

Experience in Information Technology
- Prepared six computerized educational packages for teaching Mathematics and Statistics. They are based on Mathematica Packages.
- Prepared three TV educational programs
- Have a good command of the following computer packages:

Mathematical Packages	Statistical Packages	Word Processors
Mathematica 10.3.1.0	NCSS 2000	Microsoft Word 2000
MathCAD 2001	S-Plus 2000	Scientific Work Place 4
Derive 2	MINITAB 13	
Maple V	SPSS 10	
MatLab 6	IDAMS	
	Statistica	

Teaching Experience

38 years at University level, 4 years at High School level and 1 year at Community Collage level. During these years I taught the following courses:

At the Undergraduate Level

Mathematics Courses:

General Mathematics (1-2), Calculus (1-3), Intermediate analysis, Mathematical methods, Finite Mathematics, Foundation of Mathematics, Engineering Mathematics (Differential Equations and Linear Algebra), Number Systems, Principles of Mathematics, Principles of geometry, Mathematical Computer Packages (MATHEMATICA 9), History of Mathematics, Seminar.

Statistics and Probability Courses:

Statistical methods (1-2), Statistical Lab (1-3), Probability Theory, Mathematical Statistics, Sampling Methods, Time Series, Cluster Analysis, Stochastic Processes, Nonparametric methods, Analysis of categorical data, Bayes methods, Regression analysis, Experimental design, Statistics for Administration, Biostatistics, Applied Probability, Information theory.

Actuarial Science Courses:

Mathematics for Business, Financial Mathematics, Actuarial Mathematics, Actuarial research project. Actuarial Statistical Packages.

At the Graduate Level (M. Sc. and Ph.D.)

Probability Theory, Information theory, Mathematical statistics, Statistical decision theory, Reliability Theory, Special topics in statistics: (Prediction analysis), Applied statistics , Regression analysis , Advanced Financial Mathematics, Actuarial Stochastic Models , Seminar, Research methodology.

Experience of Guiding & Evaluating Research

- Guiding and supervising the research work of Ph. D students of the University of Jordan, Jordan. Already seven candidates have received Ph.D. degree under my supervision.
- Guiding and supervising the research work of M. Sc. Already 29 (4 at Yarmouk University and 25 at University of Jordan) candidates have received M. Sc. degree under my supervision.
- Member of several of defense committees of M. Sc. and Ph. D. theses

Experience as a Reviewer and Referee

MathReview :

Reviewer for Mathematical Reviews, USA (American Mathematical Society). About 146 reviews have been published since 1985

Scientifics Research

Acting as a referee for the following reputed national and international journals::

- International Statistical Review
- Annals of the Institute of Statistical Mathematics, Institute of Statistical Mathematics
- Communications in Statistics, Part A - Theory and Methods
- Communications in Statistics, Part B – Simulation and computation
- Journal of Multivariate Analysis
- Australian Journal of Basic and Applied Sciences
- Quality Technology & Quantitative Management
- Aligarh Journal of Statistics
- Pakistan Journal of Statistics
- Pakistan Journal of Statistics and Operation Research
- Journal of Statistics
- Jordan Journal of Mathematics and Statistics
- Dirasat (Natural Science).
- Abhath Al-Yarmouk J. Pure Science and Engineering Series.
- Mu'ta J. For Research and Studies, Natural and Applied Sciences Series.

Prizes

- Refereeing works submitted to the prize of Al-Shaikh Abdulla Almbark Alsabah for pioneer scientific work of young Arab scientists, 1989.
- Refereeing works submitted to the Abdul-Hammed Shoman prize for young Arab scientists in mathematics, statistics, information and computer science, 1992.
- Refereeing works submitted to the prize of the excellent research paper in Mathematics, Ministry of Research and Higher Education, Jordan, 2004
- Refereeing works submitted to the prize of the excellent researcher in Statistics, Ministry of Research and Higher Education, Jordan, 2005

Promotions

Reviewing several promotion works to faculty members for several universities e.g. JUST (Jordan University of Science and Technology), Gaza University, Damascus University, Al Mousel University, Dyala University, Bagdad University, King Saud University, Al-Isra University, Jadara University, Al-Quds Open University

Books

- Refereeing and evaluating 18 mathematics and statistics books
- Reviewing 6 research books.

PART 8 : PUBLICATIONS

Research Papers

Total number of research papers published in the following reputed and referred Journals is given between brackets:

International Referred Research Journals

- Communications in Statistics, Theory and Methods, A. Taylor and Francis Group: (3)
- Communications in Statistics, Simulation and computation, B. Taylor and Francis Group: (7)
- J. Statistical Computation and Simulation. Virginia Tech , Gordon and Breach Science (New York): (2)
- Statistics . Taylor and Francis Group. (1)
- IMA J. Mathematical Control & Information. Oxford University Press : (6)
- J. Information and Optimization Sciences. TARU Publications, New Delhi, India (1)
- Microelectronics and Reliability. Science Direct, Elsevier : (2)
- J. of Fractional Calculus.: (1)
- Sankhya. The Indian Statistical Institute : (2)
- Metrika. Springer (1)
- Metron. Università degli Studi di Roma "La Sapienza" Dipartimento di Statistica, Probabilità e Statistiche Applicate: (1)
- Scand. J. Statistics. (1)
- Pakistan J. of Statistics. Islamic Society of Statistical Sciences : (3)
- PJSOR : (1)
- Calcutta Statistical Association Bulletin. Calcutta University, Calcutta, India :(1)
- J. of Bioequivalence & Bioavailability : (2)
- Journal of Statistics. Lahore University, Pakistan : (1)
- Journal of Statistics: (1)
- Revista Colombiana de Mathematicas. (2)
- Univ. Nac. Tucuman Rev. Ser. A. (2)

Local Jordanian Referred Research Journals

- Dirasat (Natural Science). The Jordan University, Jordan : (23)
- Dirasat (Humanities). The Jordan University, Jordan : (1)
- Abhath Al-Yarmouk J. Pure Science and Engineering Series. Yarmouk University: (2)
- ابحـاث اليـرموك، سلسـلة العلـوم الانسـانية ولاجتماعيـة جامعة اليرموك (1)
- Mu'ta J. For Research and Studies, Natural and Applied Sciences Series. Mu'ta University (2)

Other Arab States Referred Research Journals
- Iraqi J. Science. (3)
- J. Coll. Sci., King Saud University. King Saud University (1)
- King Saud University : (1) مجلة جامعة الملك عبد العزيز: العلوم التربوية
- J. of Univ. of Kuwait (Science). Kuwait University: (2)
- The Arabian J. for Science and Engineering. (1)
- Arab J. of Mathematics. (1)

Proceedings of Referred Conferences
- Proceedings of the fourth international conference on statistics, computer science and social research, Ain Shams University, Egypt. (1)
- Proceedings of the first Saudi Symposium on Statistics and its Applications, King Saud Univ. Lib., Riyadh. (2)
- Stoch. Proc. Appl. (Abstract 1)
- Proceedings of the Seventh Conference on Probability Theory, Brasov/Romania, VNU Sci. Press, Utrecht. (1)
- Proceedings of the first Jordanian Mathematics Conference, Jordan. (1)
- Proceedings of International Conference on Technology in Mathematics Education, Lebanese American University, 170-177, July 5-7, 2000, Beirut, Lebanon. (1)
- Proceedings of Optimization and Statistics Editor: A. H. Khan, Anamaya Publisher, New Delhi, India. (1)

Article in a Referred Encyclopedia
- International Encyclopedia of Statistics Editor: Lovric, M., Springer. (1)

Text Books
Total number of books published books is:
- 23 Text Books At the University Level
- 12 Text Books At a Two Year Community Collage
- 20 Text Books At the School Level

Translated Articles & Text Books
- 2 Scientific Articles
- 7 Mathematics Text Books at School Level
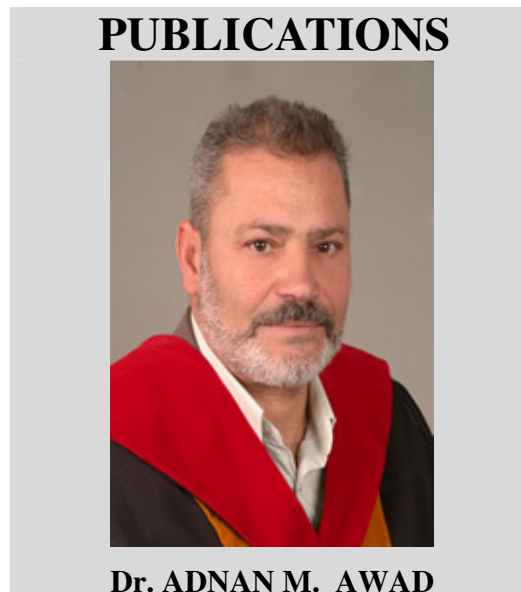
Teaching Training Manual : 1 Training Manual

E-Courses : 6 E-Courses

TV Programs: 3 TV Teaching Programs

Curricula Booklets : 4 Curricula Booklets

PART 9: COMMUNITY AND UNIVERSITY SERVICES

- Training School Teachers in Jordan and Oman
- Introduced computerized educational packages in Calculus and Statistical Methods to university faculty members at several universities in Jordan, Syria, Egypt, and Lebanon.
- Member of 4 editorial boards of international conferences
- Member of 7 international (Arab States) scientific/educational committees
- Member of 5 national (Jordan) educational committees
- Member of 4 special local advisory committees
- Consultant of Secondary Education Textbooks and Teacher Guides Instructional Material Development, 11 Aug. to 8 Sep 2007, UNESCO, UNICEF and Ministry of Education of Afghanistan.
- Member of several committees at university, Collage and Department levels at Yarmouk University and The University of Jordan.
- Member of the committee of priorities of scientific research in basic sciences, Jordan

PUBLICATIONS

Dr. ADNAN M. AWAD

RESEARCH PAPERS

2016

1. Awad, A. M. 2016, On Optimal Designs of Some Censoring Schemes , Pak. J. Stat. Oper, Res., PJSOR, Vol. XII, No. 1, pp. 1-23

2015

2. Awad, A. M. **MR3157110 Reviewed** Rissanen, Jorma Optimal estimation of parameters. *Cambridge University Press, Cambridge,* 2012. viii+162 pp. ISBN: 978-1-107-00474-0 (Reviewer: Adnan M. Awad) 62F10 (03D32 62L12 62M10 68Q30 94A29)

2014

3. Mohammed E.M. Gobar, Eihab B.M. Bashier, Adnan M. Awad: *THE BEST SAMPLE SIZE IN APPROXIMATING SOME SAMPLING DISTRIBUTIONS.* International Journal of Mathematical Science and Engineering Applications. 05/2014; 8(III):179-192.

4. Mohammed E.M. Gobar, Eihab B.M. Bashier, Adnan M. Awad, 2014, *Information measures and some distribution approximations.* Journal of Advances in Mathematics. 02/2014; 6(3):1008-1016.

2013

5. Adnan M. Awad, 2013, Informational Criterion of Censored Data Part I: Progressive Censoring Type II with Application to Pareto Distribution , Advances in Statistics and Optimisation . Editor: A. H. Khan, and R. Khan., pp 10 – 25 , R. J. Enterprises Publisher, New Delhi, India

2012
6. Awad, A. M., 2012, Application of Information Theory to Bio-Equivalence Problem, J. of Bioequivalence & Bioavailability, 4 (2) ,10-13

2011
7. Bayoud, H. A. and Awad, A. M., 2011, Performance of several bioequivalence metrics for assessing the rate and extent of absorption, J. of Bioequivalence & Bioavailability, 3(7), 174-177
8. Adnan M. Awad. (2011), Statistical View of Information Theory. In International Encyclopedia of Statistical Science, Editors: Lovric, Miodrag, Springer-Verlag ISBN 978-3-642-04897-5, pp. 1473-1475
9. Awad, A. M. **MR2599656 Reviewed** Burgin, Mark , Theory of information. Fundamentality, diversity and unification. World Scientific Series in Information Studies, 1. *World Scientific Publishing Co. Pte. Ltd., Hackensack, NJ,* 2010. xvi+672 pp. ISBN: 978-981-283-548-2; 981-283-548-2 (Reviewer: Adnan M. Awad) 94A15 (62B10)

2010
10. Alzghoul, A. and Awad, A. M., 2010, Normality Test Based on a Truncated Mean Characterization , Communications in Statistics - Simulation and Computation , 39, 1818-1843

2009
11. Haj Ahmad, H. and Awad, A., Optimal Two-Stage Progressive Censoring with Exponential Life-times, Dirasat (Science), 36, 2, 134-144,2009
12. Haj Ahmad, H. and Awad, A., Optimality Criterion for Progressive Type-II Right Censoring Based on Awad Sup-entropy Measures. Journal of Statistics, 16, 2009, 12-27 gcu.edu.pk

2007
13. Abu Hammad, M. and Awad, A. M. Distribution of Shannon Statistic from Normal Sample, Metron, LXV, n.3., , 259-275, 2007

2006
14. **MR2216540 Reviewed** Kurowicka, Dorota; Cooke, Roger Uncertainty analysis with high dimensional dependence modelling. Wiley Series in Probability and Statistics. *John Wiley & Sons, Ltd., Chichester,* 2006. x+284 pp. ISBN: 978-0-

470-86306-0; 0-470-86306-4 (Reviewer: Adnan M. Awad) 62-01 (62-09 62D05 62H05 94A17)

2005

15. Awad, A. M. **MR2085833 Reviewed** The EM algorithm and related statistical models. Edited by Michiko Watanabe and Kazunori Yamaguchi. Statistics: Textbooks and Monographs, 170. *Marcel Dekker, Inc., New York,* 2004. x+197 pp. ISBN: 0-8247-4701-1 (Reviewer: Adnan M. Awad) 62-02 (62-06 62-07 62F10)

2002

16. Awad, A. M. **MR1876880 Reviewed** Jensen, Finn V. Bayesian networks and decision graphs. Statistics for Engineering and Information Science. *Springer-Verlag, New York,* 2001. xvi+268 pp. ISBN: 0-387-95259-4 (Reviewer: Adnan M. Awad) 62-01 (62C10 68T30)

17. Awad, A. **Reviewed** Millard SP, Krause A 2001: Applied statistics in the pharmaceutical industry with case studies using S-Plus. Springer 513 pp (HB). ISBN 0-387-98814-9 (Reviewed by Adnan M Awad), in Statistical Methods in Medical Research, 2002, 11, 296.

2001

18. Raqab, M. and Awad, A., A note on characterization based on Shannon entropy of record statistics. Statistics 35, 411-413, 2001. MR1880172 (2002h:62010)

2000

19. Awad, A. and Raqab, M., Prediction intervals for the future record values from exponential distribution: Comparative study. J. Statist. Comput. Simul. 65, 4, 325-340,2000. MR1818980

20. Raqab, M., and Awad, A., Characterization of the Pareto and related distributions, Metrika, 52, 1, 63-67, 2000. MR1791924 (2001i:62010)

21. Awad, A. , Jordan experience with computer based instruction in teaching calculus and statistical methods, Proceedings of International Conference on Technology in Mathematics Education, Lebanese American University, 170-177, July 5-7, 2000, Beirut, Lebanon.

1997

22. Azzam, M. M and Awad, A. M., Application of the Shannon entropy to type II censoring in life testing experiments, J. of Fractional Calculus, 11, 103-112, 1997. MR1451549

1996

23. Awad, A. M., Properties of the Akaike information criterion, Microelectronics and Reliability, 36, 4, 457-464, 1996.

24. Azzam, M. M and Awad, A. M., Entropy measures and some distribution approximations, Microelectronics and Reliability, 36, 10, 1569-1580, 1996

25. Awad, A., and Al-Sarie, T., Clusters of entropy measures based on binomial distributions, Abhath Al-Yarmouk J. Pure Science and Engineering Series , 5,1, 31-69, 1996.

26. Awad, A., Entropy of a partition and efficiency of a sample, Abhath Al-Yarmouk J. Pure Science and Engineering Series , 5, 1, 9-30, 1996.

1995

27. Awad, A. M., On the Tukey measure of information, Mu'ta J. For Research and Studies, Natural and Applied Sciences Series, 10, No. 6, 1995, 89-103

1993

28. Awad, A., On the Fisher Information; 1993, J. Information and Optimization Sciences, 14, 1, 95-110. MR1215831 (93m:94010)

29. Azzam, M. Awad, A. and Alawneh, A., On the characteristic properties of the power series distributions, 1993, Dirasat, (Science), 20, B, 7-17. MR1244189 (94e:62015)

1992

30. Awad, A. Conditional Levy continuity theorem. (1992), Univ. Nac. Tucuman Rev. Ser. A, 29, 2, 1-6. MR1296649 (95f:60027)

31. Awad .A. and Salah, M. On the Laubscher inconsistency problem, (1992), Univ. Nac. Tucuman Rev. Ser. A, 29, 2, 49-59 . MR1296653

32. Awad, A. On the Fisher B-sufficient partition 1992, Communication in Statistics (A). Theory and Methods. 21(9), 2645-2664. MR1186072 (93k:62009)

33. Awad, A., Generalization of Von-Karman Function, 1992 Mu'ta J. For Research and Studies, Natural and Applied Sciences Series, 7, 1, 31-59.

1991

34. Awad, A. The Shannon entropy of generalized gamma and of related distributions.(1991). Proceedings of the first Jordanian Mathematics Conference, Jordan, PP.13-27.

1990

35. Shayib, M., and Awad, A. Prediction interval for the difference between two sample means from exponential populations: A Bayesian treatment, 1990, Pakistan J. of Statistics 6(1) 1-23. MR1092896

36. Awad, A. Sarie, T. Azzam, M. Simulated distribution of the Kullback-Leibler information measure, 1990, Communication in Statistics (B). Simulation 19(4), 1319-1338.

37. Hussein, D., Awad, A., Azzam, M. Some results on the Beurling spaces ,1990, Dirasat, B, (Science) 17 (2) 62-66. MR1180837 (93m:46041)

1989

38. Awad, A. and Eideh, A. Homogeneity test for r-sample from power series distributions, 1989, Dirasat (Science) XVI (2) 50-66.

39. Shaib, A. Awad, A. Predictive measure of reliability ,1989, Dirasat (Science) XVI (2) ,67-78.

40. Azzam, M. Sarie, T, and Awad, A. Comparisons of the power of three Goodness-of-fit tests for normality. 1989, Dirasat (Science) XVI (2), 79-91.

41. عوض، عدنان : الاحصاءت الكافية ومقاييس المعلومات، المجلد 16، العدد 8، ص ص 7-20 دراسات،

1988

42. Awad, A. Beta-informational sufficient partition, 1988, IMA. J. of Mathematical Control & Information 5, 1, 1-10. MR0936294 (89c:94020)

43. Awad. A. Application of informational test. 1988, IMA. J. of Mathematical Control & Information 5, 3, 233-242. MR0958013 (89g:94015)

44. Awad, A. Finite termination of the generalized SPRT if the   model is incorrect , 1988, Dirasat (Science) XV (4) 203-214.

45. ابو صالح، محمد، و عوض، عدنان، و الاسعد، عمر، بين المتنبي والبيوردي: دراسة ادبية احصائية مقارنة، مجلة جامعة الملك عبد العزيز: العلوم التربوية، المجلد 1، ص ص 273-278 ، 1988.

1987

46. Awad, A., and Abu-Taleb, A. Informational relationship measures. 1987, IMA J. of Mathematical Control and Information 4, 1, 13-23. MR0909189 (88i:94007)

47. Awad, A., and Alawneh, A., Application of entropy to a lifetime model. 1987, IMA J. Mathematical Control and Information 4, 143-147. MR0909184

48. Awad, A., and Bakir, S. Predictive density functions: A comparative study. 1987, Pakistan J. of Statistics, 3(1) A 91 –118. MR0906012 (88g:62075)

49. Awad, A., and Hussein, D. Independence inequality of entropies, 1987, IMA J. of Mathematical Control and Information 4, 4, 281-292. MR0919670 (88k:94012)

50. Awad, A. and Sarie, T. A comparative study of tests of independence, 1987, Communication in Statistics, Simulation (B) 16 (3), 645-671. MR0918600

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BOOKS
Author/Co-author of each of the following books

- **At the University Level**

  1. Principles of Statistics, vol. I, Dar Alforkan, Amman, Jordan, 1982.
  2. Principles of Statistics, vol. II, Dar Alforkan, Amman, Jordan, 1982.
  3. Introduction to Statistics, Wiley, N.Y., USA, 1983.
  4. Discrete Probability, Al-Khawarizmi Center, Irbid, Jordan, 1986. (In English)
  5. Calculus Vol. I, Dar Alfiker, Amman, Jordan, 1990
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  7. Foundation of Mathematics, Dar Alshorok, Amman, Jordan, 1990.
  8. General Mathematics and its Applications in Economics, Dar Alforkan, Amman, Jordan, 1991
  9. Statistical Methods, (Course #1184), 1992, Al-Quds Open University
  10. Mathematics 2, (Course #6102), 1992, Al-Quds Open University
  11. Discrete Mathematics, (Course #1280), 1993, Al-Quds Open University
  12. Research Methodology, (Course #0204), 1993, Al-Quds Open University
  13. Foundation of Mathematics, (Course #5260), 1994, Al-Quds Open University
  14. Personal Computer Packages, (Course #1382), 1994, Al-Quds Open University
  15. Probability Theory, (Course #5364), 1996, Al-Quds Open University
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  18. Mathematics I, 2001, Arab Open University
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- **At a Two Year Community Collage**

  1- Introduction to Mathematical Analysis, Al-Risalah, Amman, Jordan, 1983
  2- Principles of Topology, Dar Alforkan, Amman, Jordan, 1983
  3- Number systems and Number Theory, Dar Alforkan, Amman, Jordan, 1983
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  5- Calculus I, 1984, Ministry of Education in Oman
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- **At the School Level**

1- Modern math I for grad 7, 1975, Ministry of Education in Jordan
2- Modern math II for grad 8, 1976, Ministry of Education in Jordan
3- Math. book for grade 10 business stream, 1976, Ministry of Education in Jordan
4- Math. book for grade 11 business stream, 1977, Ministry of Education in Jordan
5- Math. book for grade 12 business stream, 1977, Ministry of Education in Jordan
6- Modern math III for grad 9, 1977, Ministry of Education in Jordan
7- Modern math II for grad 11, science stream 1979, Ministry of Education in Jordan
8- Modern math II for grad 11, art stream 1979, Ministry of Education in Jordan
9- Modern math III for grad 12, science stream 1980, Ministry of Education in Jordan
10- Modern math III for grad 12, art stream 1980, Ministry of Education in Jordan
11- Mathematics vol. I for grade 10, 1981, Ministry of Education in Oman
12- Mathematics vol. II for grade 10, 1981, Ministry of Education in Oman
13- Mathematics; Algebraic structure for grade 11, science stream 1982, Ministry of Education in Oman
14- Mathematics; Geometrical structure for grade 11, science stream 1982, Ministry of Education in Oman
15- Mathematics; Differentiation for grade 12, science stream 1983, Ministry of Education in Oman
16- Mathematics; Integration, Statistics, and Probability for grade 11, science stream 1983, Ministry of Education in Oman
17- Mathematics I for grade 1, 1990, Ministry of Education in Jordan (Jordan Book Center)
18- Mathematics V for grade 5, 1990, Ministry of Education in Jordan (Jordan Book Center)
19- Mathematics IX for grade 9, 1990, Ministry of Education in Jordan (Jordan Book Center)
20- Applied Mathematics , 1993, ALECSO

- **Co-translator of the following book:**
1- Volume 4 from the school mathematics project O-level.
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- BOOK REVIEWS

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- **TRANSLATED ARTICLES**

(Translator of Articles from Scientific America)
  1- Topology of Mirage, Magalet Al_Olom, Kuwait, 1984
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- **E-COURSES**
  1. Co-author of the software and user manuals for teaching Calculus I, II, and III through MATHEMATICA at the university level with support from UNESCO, 1992-1994.
  2. Co-author of the software and user manuals for teaching Statistical Methods I and II through MATHEMATICA at the university level with support from UNESCO, 1994-1996.
  3. Co-author of software for teaching Mathematics according to school curricula of Mathematics, grades 1-12, published by DAOLOG, 1998.(In Arabic)

  4. Author of a software for using MINITAB in teaching Statistics, for Al-Quds Open University.
  5. Author of a software for teaching Mathematical topics including graphics, linear algebra, calculus, number theory, probability, statistical methods, differential equations, and programming in Mathematica. Supported by the University of Jordan. 2000-2006 (several editions)
  6. Co-author of software for teaching Mathematics for Grade 9, published by Menhaj, 2008.(In English)

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