Ameen J Aalwneh
Associate Professor of Statistics and Operations Research
Email: ameen@just.edu.jo

1. PERSONAL DATA

Name: Ameen Jameel Alawneh
Date of Birth: 11/15/1961
Place of Birth: Irbid –Jordan
Nationality: Jordanian
Contact Address:
Department of Math & Stat
JUST
Irbid - Jordan
Tel(home): 00962795926850
Tel(Mobile): 00962795926850
Fax: (NA)
Email: ameen@just.edu.jo

2. ACADEMIC/PROFESSIONAL PARTICULARS

(a) Field of Specialization:
 Statistics and Operations Research/Stochastic Process

(b) Academic Qualifications

Ph.D. **(1995)**
New Mexico State University (**NMSU**)
Las Cruces, New Mexico (NMSU)
USA.
Ph.D. Thesis Title: **Approximating the Stationary Distribution of two -
Dimensional Markov Chains.**
M.Sc. (1986), Statistics, Yarmouk University, Irbid - Jordan.
Master Thesis Title: Extensions of Shannon's Entropy Measures with Applications.
B.Sc. (1984), Statistics, Yarmouk University, Irbid - Jordan.

(c) Academic Scholarship & Honors

Sponsorship from Jordan University of Science & Technology to peruse my Ph.D. degree from the United States.(Jan. 1992 – Aug.1995)

d) Membership of Professional Bodies

1) ISOSS : Islamic Countries Society of Statistical Sciences, 2004.
2) JRGAM: Jordan Research Group in Applied Mathematics, 2008.

(e) Language Proficiency

Arabic (Mother tongue)
English: Excellent

2.   CAREER DETAILS
   (a) Academic Positions

1) Sept 2009 – August 2018, Associate Professor, Statistics Program, Department of Mathematics, Statistics & Physics, Qatar University, Qatar.

2) July 2008 – Jan 2015, Associate Professor, Department of Mathematics and Statistics, JUST, Irbid - Jordan.

(3) Sept. 1995 – July 2008, Assistant Professor, Department of Mathematics and Statistics, JUST, Irbid - Jordan.

(4) Jan. 2002 – August 2009, Adjunct Professor, Department of Computer Science, New York Institute of Technology (NYiT), Amman - Jordan.

(5) Sept. 1988 – Dec. 1991, Teaching and Research assistant, Department of Mathematical Sciences, JUST, Irbid- Jordan.

(6) Feb. 1993 – June 1995, Graduate Teaching and Research Assistant, New Mexico State University, Las Cruces, USA.

(7) Feb. 1984 – June 1986, Graduate teaching assistant, Yarmouk University, Irbid – Jordan.

   (b) Administrative Positions Held

(1) Sept. 2008 – Sept. 2009, Assistant Dean of Faculty of Science & Arts, (JUST), Irbid - Jordan.

(2) Sept. 2006 – Sept. 2008, Chairman of Department of Mathematics and Statistics, JUST, Irbid - Jordan.

3. TEACHING

a) Summary of Courses Taught

Code	Name	No of Times	University
STAT 611	Probability Theory	2	QU
STAT 501	Mathematical Statistics- Bridge Course for Graduate Student	2	QU
STAT 499	Senior Project	Many	QU
STTA 455 (STAT 382	Non-Parametric Statistics.	5	QU
STAT 359 (STAT 344)	Quality Control (STAT 344).	Many	QU
STAT 350	Probability & Statistics for Engineers	2	QU
STAT 322	Mathematical Statistics II	Many	QU
STAT 221	Mathematical Statistics I	Many	QU
STAT 220	Biostatistics	3	QU
STAT 211 (STAT 251)	Probability Theory	Many	QU
STAT 154	Statistics for Non Science	3	QU
STAT 153	Introduction to Probability and Statistics	4	QU
STAT 151	Applied Probability and Statistics for Pharmacy and Biomedical Students	Many	QU
STAT 102	Statistics II	4	QU
STAT 101	Statistics I	Many	QU
SOCI 460	Statistics in Sociology	3	QU
MATH 791	Special Topics in Operations Research	2	JUST
MATH 771	Linear Programming	6	JUST
MATH 731	Probability Theory	3	JUST
MATH 475	Optimization Theory	Many	JUST
MATH 470	Probabilistic Models in Operations Research	4	JUST
MATH 371	Linear Programming	Many	JUST
MATH 331	Statistical Methods	Many	JUST
MATH 330	Mathematical Statistics	Many	JUST
MATH 235	Probability & Statistics For Engineering Students	Many	JUST
MATH 233	Probability & Statistics for Computer Science Students	Many	JUST
MATH 230	Probability Theory	Many	JUST
MATH 131	Introduction to Statistics	Many	JUST
MATH 101	Calculus I	Many	JUST
MATH 102	Calculus II	4	JUST

**Many mean more than 6 times or groups.

Academic Program: Statistics Program at Qatar University

Role: I have prepared a report submitted to the accreditation body (RSS) about teaching quality and assessing program learning outcomes. The report contains but not limited to program specifications (objectives, learning outcomes, and curriculum maps), assessment rubrics. Moreover prepared templates to asses course textbooks and exams and Statistics program SWOT analysis report.

Institution: Qatar University

Accreditation body: RSS (Royal Statistical Society- United Kingdom)

Period: (Sept. 2009 – April 2011).

Jordan University of Science & Technology(JUST)

University General Accreditation-Higher Education Accreditation Commission

Role: The general accreditation of the Jordanian universities is based on a set of standards, some of which are related to the availability of faculty members (student: teacher), many of which are related to the educational and teaching environment such as classrooms, books, library, laboratories, extracurricular activities, etc. My role was to prepare a comprehensive report which contains all these information then to study it and analyze it before submitting that report to the accrdiation body and later to discuss it when the acceptation body visited the university.

Institution: JUST

Accreditation body: Higher Education Accreditation Commission – Ministry of Higher Education-Jordan.

Period: (Sept. 2007 – April 2009).

(c) Research Students Supervised/Trained

Level	Number of Trainees
Postdoctoral Fellows PhD Students	0
Master Students	6
Undergraduate Students	10

(d) Participation in Thesis and Oral Examination Committee

Level	Number of Examinations
PhD Students	0
Master Students	More than 10

Training Activity	Training Institution	Country	Period
1) On Analyzing and Using Assessment Results	QU	Qatar	2017
2) Online Assessment Management System,	QU	Qatar	2017
4) Receive and Assess Students Assignments through Black board	QU	Qatar	2016
14) Self-Assessment – A Key Driver in Quality Assurance and Improvement For Universities,	British Council Bahrain	Bahrain.	2011
Developing and Implementing Quality Assurance,	British Council,.	Amman-Jordan	2008,

5. RESEARCH

(a)Research Interests

Queuing Systems, Statistical Analysis, Stochastic Optimization, Stochastic Partial

Differential Equations, Mathematical Models,.

(c) Grants

[1] Data collection and network development for Qatar Steel supply chain, Co-lead, Qatar National Research Fund (NPRP), **$338,000**. 4rth cycle, 1/4/2012 – 1/4/2014.

[2] Constructing Computer Labs for Teaching Purposes and Statistical Consultations Lab/ Department of Mathematics and Statistics / JUST/ $216,000. The project has been funded by the Jordan National Center for Human Resources Development under a grant from the World Bank, (2006 – 2008).

(d) Participation in Regional & International Conferences

[1] On Analyzing and Using Assessment Results, 18/10/ 2017, AQA, Qatar University, Doha-Qatar.

[2] Online Assessment Management System, OFID, Qatar University, 23/3/2017, Qatar University, Doha-Qatar.

[3] "Power Transition in Clusters Ad Hoc Networks through Simulation and Queuing Networks", 2016 2nd International Conference on Computer and Information Technology (ICCIT 2016), Istanbul, Turkey, 11- 12/4/2016.

[4] Receive and Assess Students Assignments through Black board, Qatar University, 11/10/2016.

[5] "Sustainability of Green Supply Chain for a Steel Industry Using Mixed Linear Programing Model", International Conference on Engineering and Natural Science, Bangkok, 21-23/1/2015.

[6] "An LP Model for Optimizing A Supply Chain Management System for Steel company", International Conference on Operations Research (ICOR'14), Hong Kong, 12 – 14/3/2014.

[7] Simulated Annealing for Multi Objective Stochastic Optimization", *International Conference on Computing, Technology and Engineering (ICCTE 2013)*, UAE, March, 11-12/2013.

[8] "Optimization of power transmission in clustering stochastic networks as a queuing system model", *Computational Mathematics, Computational Geometry& Statistics,* Singapore, February, 4-5, 2013

[9] "Steady state probabilities of three preemptive single server queue*", ICCMSDE 2012: International Conference on Computational Mathematics, Statistics and Data*, KL-Penang, Malaysia, February, 19--21, 2012.

[10] "Explicit Numerical Approach to find the Steady - State Probabilities of Parallel Queues", *19th international conference of the forum for interdisciplinary mathematics on interdisciplinary mathematical and statistical techniques* , Patna University , Patna-India, December, 18-20/2010.

[11] "Preemptive Queues via Dimensional Reduction and Truncation of Transition Matrix", ***Applied Mathematics International Conference 2010 (AMIC 2010)**,* Kuala Lampur, Malaysia, June, 23 -25/2010.

[12] Qatar University Assessment Week, 11– 15, Sep, 2011, Qatar University,

[13] Qatar University Assessment Day, 5-6, March 2011, Qatar University, Doha-Qatar.

[14] Self-*Assessment – A Key Driver in Quality Assurance and Improvement For Universities*, 1-3 March 2010, *British Council, Bahrain-Bahrain*.

[15] Developing and Implementing Quality Assurance, 7-10, January 2008, *British Council, Amman- Jordan*.

[16] "Numerical treatment of stochastic models used in statistical system and financial markets". *The Third International Conference on Mathematical Sciences*, Al Ain, UAE, March 3-6, 2008.

6. SERVICE

(a) Membership of Conference Committees

[1] International Conference on Bioinformatics and Biostatistics Applications in Cancer Genomics Research, Organizing Committee, Qatar University – Doha, 26-28/ 4/2015.

[2] 12th Islamic Countries Conference on Statistical Sciences "Statistics for every one and everybody", Organizing Committee, Qatar University, Doha – Qatar, 19 – 22, 12, 2012.

(b) Service as Reviewer Journals

[1] Jordan Journal of Mathematics & Statistics, "An International Referred Research Journal", P-ISSN 2075 -7905, E-ISSN 2227-5487, (2000-Now).

[2] Sultan Qaboos University Journal for Science [SQUJS], Online: 2414-536X & Print: 1027-524X, 2011 – 2018.

[3] ADVANCES IN MODELLING AND ANALYSIS: Series D Computer and Statistics, ISSN 12915211, 1997 – 2005.

(c) Invited Presentations at Scientific Meetings/Workshops

[1] "Approximating the Stationary Distribution of two-dimensional State Space with Queuing System Example". *The 31st Annual Conference on Statistics, Operations Research, and Computer Science*, Institute of Statistical Studies and Research, Cairo University, Egypt, December 14- 16, 1996.

[2] "Steady State Probabilities of M/M/1 with priority: a Numerical Approach" *.XX International Seminar on Stability Problems for Stochastic Models*, Lublin-Nateczow, Poland, September 4-11, 1999.

[3] "Serial Correlation in Absorbing Discrete-Time Finite Markov Chains". *8th Silivri- Gazimagusa Workshop on Stochastic Analysis and Related Topics*'' Eastern Mediterranean University (North Cyprus), September 18-27, 2000.

[4] "Steady - State Probabilities of one server queuing system". *The Fifth Annual Scientific Day of the Faculty of Science*, Jordan University of Science & Technology, Jordan, May 2002.

[5] "Selecting the best stochastic system". *Operations Research 2002*. University of Klagenfurt, Austria, Sept. 2 - 5, 2002.

[6] "Calculation of Steady- State Probabilities of M/M Queues" *XII-th International Summer Conference on Probability and Statistics (Iscps) Seminar on Statistical Data Analysis Workshop on Industrial Statistics,* Bulgaria, June 17-25, 2006

[7] "Numerical treatment of stochastic models used in statistical system and financial markets". *The Third International Conference on Mathematical Sciences*, Al Ain, UAE, March 3-6, 2008.

[8] "Preemptive Queues via Dimensional Reduction and Truncation of Transition Matrix", ***Applied Mathematics International Conference 2010 (AMIC 2010),*** Kuala Lampur, Malaysia, June, 23 -25/2010.

[9] "Explicit Numerical Approach to find the Steady - State Probabilities of Parallel Queues", *19th international conference of the forum for interdisciplinary mathematics on interdisciplinary mathematical and statistical techniques* , Patna University , Patna-India, December, 18-20/2010.

[10] "Steady state probabilities of three preemptive single server queue*", ICCMSDE 2012: International Conference on Computational Mathematics, Statistics and Data*, KL-Penang, Malaysia, February, 19--21, 2012.

[11] "Optimization of power transmission in clustering stochastic networks as a queuing system model", *Computational Mathematics, Computational Geometry& Statistics,* Singapore, February, 4-5, 2013

[12]   Simulated Annealing for Multi Objective Stochastic Optimization", *International Conference on Computing, Technology and Engineering (ICCTE 2013)*, UAE, March, 11-12/2013.

[13]   "An LP Model for Optimizing A Supply Chain Management System for Steel company", International Conference on Operations Research (ICOR'14), Hong Kong, 12 – 14/3/2014.

[14]   "Sustainability of Green Supply Chain for a Steel Industry Using Mixed Linear Programing Model", International Conference on Engineering and Natural Science, Bangkok, 21-23/1/2015.

[15]   "Power Transition in Clusters Ad Hoc Networks through Simulation and Queuing Networks", 2016 2nd International Conference on Computer and Information Technology (ICCIT 2016), Istanbul, Turkey, 11- 12/4/2016.

(d) University Service
- Committees

[1] Qatar University/Qatar. / Sept. 2016 – July 2018), Academic Quality and Assessment (AQA) committee/Department of Mathematics, Statistics and Physics (MSP), chairman.

[2] Qatar University/Qatar (Sept., 2016 – July 2018), CAS- Academic Quality and Assessment Committee (AQUA)/College of Arts and Science/ Member

[3] Qatar University/Qatar, (Sept. 2016 – July 2018), Department of Mathematics, Statistics and Physics (MSP) council / (10 -members out of 60 faculty members), Member

[4] Qatar University/Qatar, (Sept. 2016 – July 2018), Students Learning Outcomes (SLOs) committee/ Statistics Graduate Program (first committee), Department of Mathematics, Statistics and Physics (MSP), chairman.

[5] Qatar University/Qatar, (Sept. 2012 – June 2016), Budget Committee / Department of Mathematics, Statistics and Physics (MSP), chairman.

[6] Qatar University/Qatar / Budget Committee / Department of Mathematics, Statistics and Physics (MSP) Sept. 2009 – June 2012, Member.

[7] Qatar University/Qatar, (Sept. 2016 – June 2018) MSP-Planning, Facilities & Budget Committee/ Department of Mathematics, Statistics and Physics (MSP), Member.

[8] Qatar University/Qatar, (March 2010 – Sept 2016), / Strategic Plan Committee/ Department of Mathematics, Statistics and Physics, Member.

[9] Qatar University/Qatar, (Sept. 2009 – June 2013), Students Learning Outcomes Committee/Undergraduate Statistics Program (first committee)/Statistics program /Chairman.
[10] Qatar University/Qatar, (Sept. 2010 –June 2013), CAS - SLOs "College of Arts and Science learning outcomes committee" Member
[11] Qatar University/Qatar, (Sept. 2009 – June 2012), Quality Enhancement Committee (CAS QEC), College of Arts and Science, Member.
[12] Qatar University/Qatar, (Sept. 2012 – July), Examinations Committee and SWOT analysis committee /Mathematics, Statistics and Physics Department, Chairman.
[13] Jordan University of Science & Technology – Jordan, (Sept 2007 – Sept 2009), Accreditation and Quality Assurance JUST Council, Faculty of Science and Arts Representativ.
[14] Jordan University of Science & Technology – Jordan, (Sept. 2007- Sept. 2009), Accreditation Quality Assurance Committee/Faculty of Science & Arts, chairman.
[15] Jordan University of Science & Technology – Jordan, (Sept. 2006 – Aug 2009), Coordinator /departmental accreditation/faculty of Science & Arts: Mathematics, Physics, Chemistry, Biotechnology, and English for Special Purposes, Coordinator.
[16] Jordan University of Sciences and Technology/Jordan, (June, 2008 – Jan. 2009S), Strategic Plan Development Committee/, member.

• CONTRIBUTIONS & TASKS

[1] Participate in **Accreditation of the Statistics Program at Qatar** University from RRS (Royal Statistical Society/London/Spring 2011). The accreditation includes

curriculum review, preparation of the program specifications; prepare rubrics to assess course textbooks, exams, SOWT analysis to Statistics Program, etc.

[2] Prepared **Statistics Programs Students Learning Outcomes Assessment Package** at Qatar University (**Graduate Fall 2016** and **Undergraduate Spring 2010**) for the first time. The package includes program specifications(Program vision, Program Objectives, Students Learning Outcomes), Program Objectives-Learning Outcomes map, Program Learning outcomes–Compulsory courses, Three years Assessment Cycle, Assessment rubrics, Annual report, End of cycle report.

[3] Enough experience (9 years) at Qatar University in preparing **Course Portfolio**; detailed syllabus, sample of instructor's work (sample lecture, evidence of Blackboard usage, grades analysis, attendance, analysis of course assessment tools to achieve the course learning outcomes), samples of students work, etc.

[4] Participate in preparing the file submitted from Jordan University of Science and Technology to the Ministry of Higher Education in Jordan in order to in order to achieve the University Accreditation (General), 2008/2009.(Vice President)

[5] Prepared 10 years (2008 – 2018) plan to cover Jordan University of Science and Technology needs of faculty member to achieve a special accreditation in all majors and departments with 5% increment each year. 2008/2009. (Vice President)

[6] Prepared 5 years action plan for JUST based on a strategic plan approved by the university council 2007/2008 (Dean of faculty of Science and Arts).

• ATTENDING WORKSHOPS

[1] On Analyzing and Using Assessment Results, 18/10/ 2017, AQA, Qatar University, Doha-Qatar.

[2] Online Assessment Management System, OFID, Qatar University, 23/3/2017, Qatar University, Doha-Qatar.

[3] Qatar University Assessment Week, 11– 15, Sep, 2011, Qatar University,

[4] Qatar University Assessment Day, 5-6, March 2011, Qatar University, Doha-Qatar.

[5] Self-*Assessment – A Key Driver in Quality Assurance and Improvement For Universities*, 1-3 March 2010, British Council, Bahrain-Bahrain.

[6] *Developing and Implementing Quality Assurance*, 7-10, January 2008, British Council, Amman- Jordan.

[7] *Evaluating The Educational Sciences Programs In Arabic Universities* Supported By UNDP, ETS, And Hashemite University, 7/4/2008, Hashemite University, Zarqa- Jordan.

[8] *Quality Assurance and Learning Outcomes*, Sponsored By European Commission Delegation and Erasmus Mundas External Cooperation Window Lot Consortium, 21/4/2008, JUST, Irbid- Jordan.

[9] *Accreditation and Quality In Higher Education*, Zarqa Private University, 22/10/2008, Zarqa – Jordan.

(g) Service to Profession/Industry

Qatar Steel, NPRP project cycle 4, The service is delivered through a a linear programming model to minimize the cost of Qatar Steel supply, Project LPI, (April 2012 – April 2014).

7. LIST of PUBLICATIONS
(a) International Refereed Journals

[1] **Ameen Alawneh**, Ahmad Dalalah and Ibrahim Faraj. The Optimal Power Transmission through Ad Hoc Stochastic Networks. *International Journal of Computer Science and Information Security*, Vol. 14(11), 121 – 135, (2016).

[2] **Ameen Alawneh**, Ahmad Dalalah and Ibrahim Faraj. Simulation Approach for A Comparison of Linked Cluster Algorithm and Clusterhead Size Algorithm in Ad Hoc Network. *International Journal of Computer Science and Information Security*, Vol. 13, No. 11, 15-20, (2015).

[3] Mahmoud Alrefaei, **Ameen Alawneh** and Mansur Hassan, Fuzzy Linear Programming for Supply Chain Management in Steel Industry", *Applied Mathematical Sciences,* Vol. 8, no. 103, 5105 – 5114, (2014).

[4] Alrefaei, M. H., Diabat A., **Alawneh A**., Al-Aomar R., Faisal M. N. Simulated Annealing for Multi Objective Stochastic Optimization. *International Journal of Science and Applied Information Technology (IJSAIT),* Vol. 2 (2), 18 – 21, 2013.

[5] **Ameen Alawneh** "Steady state probabilities of three preemptive single server queue, Journal of Modern Applied Statistical Methods 11(1). (2012).

[6] M Jaradat, MF Janem, AJ Alawneh, "On the basis number of the strong product of theta graphs with cycles, *QNRS Repository* 2011 (1), (2011).

[7] Marwan Al-Quran, Kamel Al-Khaled, **Ameen Alawneh**, "Simulated Results for Deterministic Model of HIV Dynamics, *STUDIA UNIV. BABESBOLYAI, MATHEMATICA,* Volume 56, Number 1, 165 – 178, (2011).

[8] **Ameen Alawneh,** Kamel Al-khaled and Mohammad Al-Towaiq: Reliable algorithms for solving integro-differential equations with applications. *International Journal of Computations and Mathematics.* 87(7): 1538-1554, (2010).

[9] **Ameen Alawneh** and Kamel Al-Khaled, Numerical treatment of stochastic models used in statistical systems and financial markets. *Computer and Mathematics with applications,* Volume 56(10): 2724-2732, (2008).

[10] Momhammad M Jaradat, Magda Janem and **Ameen J Alawneh,**" On the basis number of the strong product of theta graphs with cycles", *International Journal of Mathematical Combinatorics* 3, 40-50, (2008).

[11] Kamel Al-Khaled, Mohammed Al-Refai and **Ameen Alawneh**. Traveling wave solutions using the variation method and the *tan*h method for nonlinear-coupled equations, *Applied Mathematics and Computation*, Volume 202:233-242, (2008).

[12] Ahmed A Abu-Taleb, **Ameen J. Alawneh** and Mahmoud M Smadi. Statistical analysis of recent changes in relative Humidity in Jordan", *American Journal of Environmental Sciences,* Volume 3(2):75-77, (2007).

[13] A. Abu-Taleb, Mahmoud M. Smadi and **Ameen J. Alawneh**, "Bayes Estimation of the Lifetime Parameters for the Exponential Distribution' Journal of Mathematics and Statistics 3 (3): 106-108, (2007).

[14] Alrefaei, M. H. and **A. J. Alawneh**. Solution quality of random search methods for discrete stochastic optimization. *Mathematics and Computers in Simulations,* Vol. 68(2) 115–125, 2005.

[15] Alrefaei, M. H. and **A. J. Alawneh**, Selecting the best stochastic system for large-scale problems in DEDS. *Mathematics and Comters in Simulation*. Vol. 64: 237-245, 2004.

[16] BM Al-Eideh, **AJ Alawneh**, "Asymptotic distribution of MLE's of the parameters for a diffusion model with catastrophes and some related inference problems", Journal of Interdisciplinary Mathematics 6 (1), 19-26, (2003).

[17] Ameen J. Alawneh and Basel M. Al-Eideh," Moment approximation of the first-passage time for the Ornstein-Uhlenbeck process" Intern. Math. J 1 (3), 255-258,(2002).

[18] **Ameen J. Alawneh** and Basel M. Al-Eideh "Serial correlation in absorbing discrete - time finite Markov chains. *Advances in Modeling & Analysis, A*, Volume 38(1, 2): 23-3, (2001).

[19] Ameen J. Alawneh, Basel M. Al-Eideh and M. Hammed "A stochastic model to estimate origin-destination matrices despite missing observations" *International Journal of Applied Mathematics*. Volume 6 (3): 293-299, (2001).

[20] Basel M. Al-Eideh & **Ameen Alawneh** "Asymptotic Distribution of MLE's of the parameters for a diffusion model with catastrophes" *Advances in Modeling & Analysis A,* Volume 37(3, 4): 35-42, (2000).

[21] Ameen J Alawneh, Basel M Al-Eideh, "The extinction time of a diffusion model with uniform catastrophe sizes occurring at a constant rate" *International Journal of Applied Mathematics* 4 (2), 125-132,(2000).

[22] Ameen J Alawneh, Population moments of a uniform constant catastrophe-diffusion process with immigration. *International Journal of Mathematical And Statistical Sciences* 9, 15-22, (2000).

[23] Ameen J Alawneh. Explicit numeric computation of steady state probabilities for two parallel queues. Advances in Modeling and Analysis: A, 32 (2), 1-13, (1997)

[24] Ameen J Alawneh, Approximating the stationary distribution of two-dimensional Markov chains. Ph.D. Thesis, NMSU, USA, (1996).

[25] Adnan M Awad and Ameen **J Alawneh,** "Application of entropy to a life-time model", IMA Journal of Mathematical Control and Information 4 (2), 143-148, (1987).

(b)   Conference Papers

[1] M Alrefaei, R Al-Omar and **A Alawneh.** A framework for green supply chain of steel industry. *Qatar Foundation Annual Research Conference*, EEPP0744, (2014).

[2] Raed Al-Aomar , Mahmoud Alrefaei, Ali Diabat, Mohammad N Faisal and **A. Alawneh.** Using Simulation to Assess the Performance of a Large-scale Supply Chain for a Steel Producer. *In the Proceedings of the 2014 International Conference on Mathematical Methods, Mathematical Models and Simulation in Science and Engineering,* Switzerland, 22 – 24 February, 2014. pp. 156 – 160, 2014.

[3] **Alawneh A.,** M. Alrefaei, A. Diabat, R. Al-Aomar, and M. N. Faisal. An LP Model for Optimizing a Supply Chain Management System for Steel Company. *In the Proceedings of the International Multi Conference of Engineers and ComputerScientists 2014 Vol II,* 12 – 14 March 2014, pp. 1162 -1164, Hong Kong, 2014.

[4] Faisal M. N., M. Alrefaei., **Alawneh A.,** Al-Aomar R. and Diabat A." Supply Chain Performance Improvement by Integrating Sustainability in Supplier Selection for a Steel Producer. *In the Proceedings of the 3rd International Conference on Production and Industrial Engineering CPIE-2013,* JALANDHAR, INDIA, pp. 586 – 591 March 2013.

[5] Diabat A., Al-Aomar R., M. Alrefaei, **Alawneh A**., Faisal M. A Framework for Optimizing the Supply Chain Performance of a Steel Producer. *In the Proceedings of the 15th International Conference on Enterprise Information Systems* 04 - 07 July 2013 Angers - France, pp. 554-562, July 2013.

[6] Kamel Al-Khaled, **Ameen Alawneh** and Nadia Rashideh, Improving Newton's Method for Nonlinear Optimization Problems in Several Variables, Proceedings of the 11th International Conference on Computational and Mathematical Methods in Science and Engineering, CMMSE, Vol 1, pp 47- 57, (2011).

d   Other Publications

Shafiq Otum, Mohammad Abu Salih & Ameen Alawneh, "Business Statistics", At textbook for high School -Information Administration track, Ministry of Education & Teaching, Jordan, (2004)-in Arabic language.

8. REFERENCES

1) Professor: Ahed Wahadeh,
   Jordan Jniversity of Science & Technology
   Irbid – Jordan
   Email: ahed@just.edu.jo

2) Professor Ahmed Bateha,
   Jordan University of Science & Technolgy
   Irbid - Jordan
   Email: betieha@just.edu.jo

3) Professor Mahmoud Alrefaei,
   Jordan Jniversity of Science & Technology
   Irbid – Jordan
   Email: alrefaei@just.edu.jo