

Curriculum Vitae

LOTFI TADJ

Alfaisal University, College of Engineering,

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EDUCATION

- **Ph.D. Operations Research**, Florida Institute of Technology, Operations Research Program, Melbourne, FL 32901, U.S.A., June 1993.
Advisor: Dshalalow, J.H.
- **M.S. Applied Mathematics**, Carnegie-Mellon University, Department of Applied Mathematics, Pittsburgh, PA 15213, U.S.A., August 1986.
Advisor: Kannan, R.
- **B.S. Mathematics** (Operations Research), Université des Sciences et de la Technologie Houari Boumediène, Department of Mathematics, Algiers, Algeria, June 1983.

HONORS AND AWARDS

- **January 2010**. Recipient of the Faculty Student Mentorship Grant for Spring 2010 (Grant awarded by the School of Business Administration at the American University in Dubai, aimed at promoting innovative mentoring activities between full-time faculty members and undergraduate students).
- **May 2009**. Recipient of the Faculty Teaching Offset Grant for Summer 2009 (Grant awarded by the School of Business Administration at the American University in Dubai, provides a one course teaching reduction for full-time faculty members engaged in scholarly research).
- **1991 - 1993**. Research Assistantship from Florida Institute of Technology (to prepare a Ph.D. in Operations Research).
- **May 1991**. Outstanding Student Paper Award at the 55th Annual Meeting of the Florida Academy of Sciences.

- **1983 - 1986.** Scholarship from the Ministry of Higher Education, Algeria (to prepare an M.S. in Applied Mathematics).

PROFESSIONAL SOCIETIES

- Member of the Institute for Operations Research and Management Science (**INFORMS**).
- Member of the Operational Research Society (**ORS**).
- Member of the Canadian Operational Research Society (**CORS**).

WORK EXPERIENCE

- **Aug. 2018 – Present. Professor of Industrial Engineering,** Alfaisal University, College of Engineering, Department of Industrial Engineering, Riyadh, Saudi Arabia.
- **May 2016 – Aug. 2018. Assistant Professor of Information Systems and Decision Sciences and Coordinator of the Business Program,** Fairleigh Dickinson University, Silberman College of Business, Department of Information Systems and Decision Sciences, Vancouver, BC, Canada.
- **Aug. 2013 – May 2016. Assistant Professor of Information Systems and Decision Sciences,** Fairleigh Dickinson University, Silberman College of Business, Department of Information Systems and Decision Sciences, Vancouver, BC, Canada.
- **Jan. 2012 – Aug. 2013. Assistant Professor of Operations Management,** Dalhousie University, Faculty of Management, School of Business Administration, Halifax, NS, Canada.
- **Jan. 2011 – Aug. 2011. Adjunct Professor,** Dalhousie University, Faculty of Management, School of Business Administration, Halifax, NS, Canada.
- **Sept. 2010 – June 2013. Adjunct Professor,** Saint Mary's University, Sobey School of Business, Department of Finance, Information Systems and Management Science, Halifax, NS, Canada.
- **Jan. 2010 – July 2010. Adjunct Professor,** Canadian University of Dubai, School of Business and School of Engineering Applied Sciences & Technology, Dubai, United Arab Emirates.
- **Aug. 2008 – Aug. 2010. Professor of Decision Sciences,** American University in Dubai, School of Business Administration, Department of Management, Dubai, United Arab Emirates.
- **Mar. 2008 – Aug. 2008. Research Associate,** École Polytechnique de Montréal, Department of Mathematics and Industrial Engineering, Montréal, QC, Canada.
- **Nov. 2004 – Aug. 2007. Professor,** King Saud University, College of Science, Department of Statistics and Operations Research, Riyadh, Saudi Arabia.

- **Nov. 2000 – Nov. 2004. Associate Professor**, King Saud University, College of Science, Department of Statistics and Operations Research, Riyadh, Saudi Arabia.
- **Oct. 1995 – Nov. 2000. Assistant Professor**, King Saud University, College of Science, Department of Statistics and Operations Research, Riyadh, Saudi Arabia.
- **Aug. 1993 – June 1995. Adjunct Professor**, Brevard Community College, Melbourne, FL, 32935, U.S.A.
- **June 1993 – Dec. 1993. Adjunct Professor**, School of Business, Florida Institute of Technology, Melbourne, FL 32901, U.S.A.
- **Jan. 1991 – June 1993. Research Assistant**, Florida Institute of Technology, Operations Research Program, Melbourne, FL 32901, U.S.A.
- **Feb. 1987 – Dec. 1990. Lecturer**,
 - Bio-Mathematics Department, Institut National d'Études Supérieures en Sciences Médicales, Algiers, Algeria.
 - Department of Mathematics, Université des Sciences et de la Technologie Houari Boumediène, Algiers, Algeria.

SEMINARS

- **October 23 - 24, 2009. Professor**, International School of Management (ISM), Paris, France. I presented a seminar in Corporate Finance for ISM's External MBA Program at the Institut Supérieur Européen de Gestion (ISEG).

TEACHING EXPERIENCE

- Courses taught at Alfaisal University.
 - Undergraduate: Data Analytics in IE using R, Production and Service Systems Planning I and II, Management for Engineers, Probability and Statistics for the Life Sciences.
 - Graduate: Deterministic Management Science, Stochastic Methods for Engineers & Systems Managers, Special Topics in Data Analytics, Statistics and Data Analytics.
- Courses taught at Fairleigh Dickinson University.
 - Undergraduate: Math for Business Decisions, Introduction to Statistics, Business Statistics, Operations Management, Management Science, Information Technology for Business, Spreadsheet Applications in Business, College Algebra.
- Courses taught at Dalhousie University.
 - Undergraduate: Statistics for Managers I, Statistics for Business I and II, Operations Management, Production/Operations Management.

- Courses taught at Saint Mary's University.
 - Graduate (MFIN): Statistical Methods.
 - Undergraduate: Introductory Statistics for Commerce, Introduction to Quantitative Methods I and II.
- Courses taught at Canadian University of Dubai.
 - Undergraduate: Quantitative Approaches to Decision Making, Operational Research.
- Courses taught at Institut Supérieur Européen de Gestion.
 - Graduate (MBA): Research Methods for Managers.
- Courses taught at American University in Dubai.
 - Graduate: Methods for Business Decisions.
 - Undergraduate: Introduction to Business Statistics, Quantitative Methods of Decision Making, Operations Management I.
- Courses taught at King Saud University.
 - Graduate: Stochastic Models in OR I and II, Nonlinear Programming I.
 - Undergraduate: Introduction to Operations Research, Dynamic Programming, Integer Programming, Linear Programming I and II, Optimization I, Simulation Techniques I and II, Queueing Theory, Forecasting Techniques, Model Building, Inventory Models, Game Theory, Reliability Theory, Elementary Probability and Statistics I, Elements of Distribution Theory, Biostatistics, Stochastic Processes, Networks Analysis, Time Series Analysis.
- Courses taught at Florida Institute of Technology.
 - Graduate: Advanced Topics in Stochastic Processes, Systems Simulation Using Slam II, Integer Programming, Advanced Analytical Methods for Management Science.
- Courses taught at Brevard Community College.
 - Undergraduate: Principles of Mathematics, Differential Equations, Essentials of Calculus, Introduction to Statistics, Introduction to College Algebra.
- Courses taught at Institut National d'Études Supérieures en Sciences Médicales.
 - Undergraduate: Probability and Statistics/BASIC Programming Language.
- Courses taught at Université des Sciences et de la Technologie Houari Boumediene.
 - Undergraduate: Numerical Analysis/FORTRAN Programming Language.

COMPUTER SKILLS

- Good Knowledge of compilers, simulation languages, and various operations research, statistics, and mathematics packages such as MATLAB, MAPLE, Mathcad, MINITAB, Win-QSB, etc.
- Good Knowledge of UNIX, VAX, SUN Workstations, and MS-DOS, Windows, and McIntosh

Operating Systems.

FACULTY DEVELOPMENT

- *Academic Workshops*
 - **November 2018.** Faculty Development Seminar. Seminar prepared and presented by Dr. Mohamed Elattar, Chair of Software Engineering Department, Alfaisal University.
Seminar title: Assessment of Learning Outcomes (ABET Approach).
 - **October 2018.** Faculty Development Seminar. Seminar prepared and presented by Dr. Ahmad Oteafy, Assistant Professor of Electrical Engineering, Alfaisal University.
Seminar title: Teaching and Learning.
 - **October 2018.** Faculty Development Seminar. Seminar prepared and presented by Eng. Amjad Bou Matar, Laboratory Instructor of Electrical Engineering, Alfaisal University.
Seminar title: Course and Field Experience Reports for Programs.
 - **September 2018.** Faculty Development Seminar. Seminar prepared and presented by Prof. Khaled Basandi, Advisor on Quality and Accreditation, King Saud University.
Seminar title: Quality Assurance and Accreditation Requirements for Programs.
 - **August 2011.** Workshop offered by the Center for Academic and Instructional Development at Saint Mary's University, Halifax, NS, Canada.
Workshop title: Blackboard 101.
 - **August 2011.** Workshop offered by the Center for Academic and Instructional Development at Saint Mary's University, Halifax, NS, Canada.
Workshop title: Managing Student Grades through Blackboard.
 - **January 2010.** Teaching Effectiveness Workshop. Workshop Leader Dr. Jihad S. Nader, Provost and Chief Executive Officer, American University in Dubai, Dubai, UAE.
Workshop title: Actionable Imperatives for Safeguarding Academic Integrity.
 - **January 2009.** Teaching Effectiveness Workshop. Workshop Leader Dr. Jihad S. Nader, Provost and Chief Executive Officer, American University in Dubai, Dubai, UAE.
Workshop title: Elements of Teaching Effectiveness.
 - **October 2008.** Faculty Development Workshop. Workshop Leader Dr. Richard Lyons, Senior consultant faculty development associates, North Hutchinson Island, FL, USA.
Workshop title: Guiding your course to success.

- *Professional Workshops*
 - **August 2011.** Aspiring Entrepreneur Workshop. Workshop sponsored by the Centre for

Entrepreneurship Education and Development, Halifax, NS, Canada.

Workshop title: Start Smart.

SERVICE TO THE UNIVERSITY

- At Alfaisal University
 - Member of the Scientific and Curriculum Committee.
 - Member of the College Faculty Promotions Review Committee.
 - Academic advisor for second year Industrial Engineering students.
 - Supervision of several final year projects in Industrial Engineering (graduate and undergraduate).
 - Participation in College of Engineering Open House.
 - Chair of the hiring committee filling a Faculty Position in Industrial Engineering at the College of Engineering (#031218).
 - Judge for the 10th Annual Research Day Student Poster Competition (Sunday, April 14 2019 – Monday, 15 April 2019).
 - Judge for the 4th Engineering design EXPO & Competition (Thursday, 7 March 2019 from 9 AM to 12 PM).
 - Member of examination committee of graduate students defending their M.S. thesis in Engineering Management:
 - Feras Aloufi, Improving air electrical maintenance using six sigma (Advisor: S. Mejjouli).
 - Mohammed Al-Eraibi, Applying lean six sigma to improve ACE3A (AWACS) airworthiness (Advisor: A. Alrashdan).
 - Adel Altowairgi, Proposed green building rating system for Kingdom of Saudi Arabia by using an analytical hierarchical process (Advisor: A. Alrashdan).
 - Abdulaziz Qasim AlQasabi, Vehicle route optimization for medical waste collection (Advisor: A. Alrashdan).
 - Luluwah Ibrahim Bin-Saedan, Prioritizing customers' housing requirements in Saudi Arabia with QFD method using quality function deployment in the design stage of building the Saudi residence project (Advisor: A. Alrashdan).
 - Ahlam Ali Alnafiei, Optimization in perovskite solar cell by applying neural network techniques (Advisor: S. Mejjouli).
 - Aeshah Ahmed Alshalaan, Implementation of Lean Six Sigma to improve a blood bank management (Advisor: S. Mejjouli).

- Rahaf Salah Albathi, Development of a logistics decision support system (Advisor: S. Mejjaouli).
 - Sarah Hamad Algublan, Optimizing the process of packaging production by eliminating duplex gluing defect using Six Sigma (Advisor: S. Mejjaouli).
- At Fairleigh Dickinson University
 - Business Program Coordinator (Member of Admissions Committee, Articulation Committee, Commencement Committee, Directors Committee, Enrollment Committee, Hiring Committee, Orientation Committee, Scholarships Committee, and Business Program Advisory Board).
 - Academic Affairs Committee Coordinator.
 - Awards Committee Chair.
 - Academic Advisor for undergraduate students.
 - Organized with A.K. Garg the Third International Conference on “Business Management and Technology” held at Fairleigh Dickinson University – Vancouver on its 10th anniversary celebrations.
 - Coached with O. Asik-Dizdar and J. Reid the FDU team that took part in the Langara College's 2015 Undergrad Case Competition.
 - Coached with C. Bygrave the FDU team that took part in the University of British Columbia's 2014 REVEAL Business Competition, Western Canada's only business simulation competition.
- At Dalhousie University
 - Member of the Hiring Committee. Search #: 2060 (Assistant Professor in Quantitative Methods, School of Business Administration, Faculty of Management).
 - Coordinator of the Statistics for Business II course.
- At Saint Mary’s University
 - Mentor for Khaled E. Ramadan, Business instructor at Saint Mary’s Mini University (July 2012).
- At the American University in Dubai
 - Member of the Academic Affairs Committee.
 - Member of the Courses Equivalence Committee.
 - Coordinator of the Quantitative Methods Courses.
- At King Saud University.
 - Member of the Academic Affairs Committee.
 - Member of the Graduate Studies Committee.

- Supervision of several final year projects in Operations Research.
- Supervision of graduate students preparing their M.S. thesis in Operations Research:
 - Faysal Al-Motarey, Study of some queueing network models (2003),
 - Mohammed Al-Zaban, Exact and approximate solutions of a quorum queueing system with start-up time (2004),
 - Najeeb Al-Matar, Effect of the server capacity distribution on the optimal control of a bulk service queueing system (2005),
 - Adil Al-Rasheedi, Optimal control of production inventory systems with deteriorating items (2005).
- Co-supervision of graduate students preparing their M.S. thesis in Operations Research:
 - Abdullah Al-Mohanna, Optimal trade credit policies of inventory models with deteriorating items (Advisor: Z. Al-Balkhi, 2006),
 - Ahmed Al-Rahma, Stochastic optimal control of some stochastic production planning and advertising dynamical models (Advisor: A. Al-Gohary, 2007),
 - Saad Al-Malki, Some useful generalized statistical distributions (Advisor: A. Sarhan, 2007).
- Member of examination committee of graduate students defending their M.S. thesis in Mathematics or Operations Research:
 - Reem Al-Jadhei, Modified proximal technique to decompose variational inequality problems (Advisor: A. Hamdi),
 - Bushra Al-Sannan, Application of nonsmooth analysis to nonconvex variational inequalities and nonconvex differential inclusions (Advisor: M. Bounkhel),
 - Mona Al-Duailaj, Some nonparametric statistical tests add-in for Microsoft Excel implemented by Visual Basic for Applications (Advisor: A. Barry),
 - Huda Al-Saud, Decomposing structured convex programs with generalized augmented Lagrangians (Advisor: A. Hamdi).

EXTERNAL EXAMINER

- **April 2017.** Rosmery Terreros Chero and Jesús Villar Romero, Industrial engineer degree, Faculty of Engineering, Universidad Peruana de Ciencias Aplicadas, Lima, Perú.
Thesis title: Proposal of a Planning and Control Management Process to Increase the Competitiveness of the MSES Esparragueras Located in the ICA Region.
Advisor: Fernando Sotelo.
- **March 2012.** B.V.S.N. Hari Prasad, Ph.D. Applied Mathematics, Department of Applied

Mathematics, Acharya Nagarjuna University, Nuzvid, India.

Dissertation title: Optimal Strategy Analysis of Two-Phase N-policy Gated Queueing Systems with Server Start-up and Breakdowns.

Advisor: Rao, K. Pandu Ranga.

MENTORING

- November 29th - Dec 1st, 2018. MIT Saudi Hack for Health 2018 – Data Science for Global Health track. Princess Noura University Convention Center, Riyadh, Saudi Arabia.

EDITORIAL SERVICES

- Editorial administration
 - **2016 – Present.** Associate Editor for Queueing Models and Service Management (QMSM).
 - **2016.** Invited Guest Editor for the Special Issue on "Applications of Neural Networks and Fuzzy Logic in Operations Research" of the journal Advances in Operations Research.
 - **2013 – 2015.** Editorial Board Member of ISRN Operations Research.
 - **2010 – Present.** Associate Editor for the Archimedes Journal of Mathematics.
 - **2008.** Invited Guest Editor for the Special Issue on "Management Policies of Queueing Control" of the journal Quality Technology and Quantitative Management.
 - **2007 – Present.** Associate Editor for the Antarctica Journal of Mathematics.
 - **2005 – Present.** Associate Editor for the Journal of Probability and Statistical Sciences.
 - **1991 – Present.** Advisory Technical Editor of the Journal of Applied Mathematics and Stochastic Analysis.
- I have refereed research papers for the following journals:
Ain Shams Engineering Journal, American Journal of Mathematical and Management Sciences, Annals of Operations Research, Applications and Applied Mathematics: An International Journal, Applied Mathematical Modelling, Applied Mathematics and Computation, Applied Mathematics & Information Sciences, Applied Sciences, Applied Stochastic Models in Business and Industry, Central European Journal of Operations Research, Computers & Industrial Engineering, Computers and Mathematics with Applications, Computers & Operations Research, Discrete Dynamics in Nature and Society, Engineering Computations -- International Journal for Computer-Aided Engineering and Software, Engineering Simulation, European Journal of Operational Research, European Journal of Pure and Applied Mathematics, Filomat, International Journal of Computer Mathematics, International Journal of Management Science and Engineering Management, International Journal of Physical Sciences, International Journal

of Open Problems in Computer Science and Mathematics, International Journal of Operational Research, International Journal of Physical Sciences, International Journal of Reliability and Applications, International Journal of Services Operations and Informatics, International Journal of Stochastic Analysis, International Journal of Systems Science, ISRN Operations Research, Journal of Applied Mathematics and Computing, Journal of Applied Mathematics and Stochastic Analysis, Journal of Engineering Manufacture, Journal of King Saud University (Science), Journal of Modern Mathematics Frontier, Journal of the Operational Research Society, Journal of Probability and Statistical Sciences, Journal of Testing and Evaluation, King Khalid University Journal of Science, Mathematical and Computer Modelling, Mathematical Methods in the Applied Sciences, Mathematics and Computers in Simulation, Methodology and Computing in Applied Probability, Opsearch, Pakistan Journal of Statistics, Physica A, Operational Research – An International Journal, Production Planning and Control, Quality Technology and Quantitative Management, Simulation: Transactions of the Society for Modeling and Simulation International, Soochow Journal of Mathematics, Stochastic Analysis and Applications, Stochastics and Stochastics Reports, Sultan Qaboos University Journal of Science, The Scientific World Journal, TOP (Journal of the Spanish Society of Statistics and OR).

- **September 2017.** I have evaluated the book manuscript “Managerial Approaches Towards Queuing Systems and Simulation” for IGI Global Publisher.

CONFERENCES SERVICES

- **12 – 14 June 2019, Program Committee Member.** International Conference on Computational Science, Faro, Algarve, Portugal, 2019.
- **23 – 24 March 2017, Organizer.** Third International Conference on “Business Management and Technology”, Fairleigh Dickinson University – Vancouver, BC, Canada.

RESEARCH INTERESTS

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|-------------------------------|---------------------------|--------------------------------|
| • <i>Queueing Theory</i> | • <i>Optimal Control</i> | • <i>Statistical Inference</i> |
| • <i>Stochastic Processes</i> | • <i>Inventory Theory</i> | • <i>Reliability Theory</i> |
| • <i>Production systems</i> | • <i>Service systems</i> | • |

RESEARCH FUNDS

Projects funded by the Research Center of the College of Science at King Saud University:

- Stat/1420/04: On an M/D^f/1 queueing system. L. Tadj. Amount: 15,000 SAR.
- Stat/1422/23: Recursive solution to a quorum queueing system. L. Tadj. Amount: 8,500 SAR.

- Stat/2004/06/B: Introduction to Inventory Control. Z. Balkhi, L. Tadj, and M. Bounkhel. Amount: 24,000 SAR.
- ST/Stat/24-25/11: Minimizing energy use for a road expansion in a transportation system using optimal control theory. L. Tadj and M. Bounkhel. Amount: 30,000 SAR.
- ST/Stat/24-25/21: Optimal control of production inventory systems with deteriorating items. L. Tadj and A. Al-Rasheedi. Amount: 7,000 SAR.
- Stat/2005/24: Self-tuning optimal control of a periodic-review product recovery system with deteriorating items. A. Foul, S. Djemili, and L. Tadj. Amount: 28,000 SAR.
- Stat/2005/30: A quorum queueing system with Bernoulli vacation schedule and restricted admission. K. Nowibet and L. Tadj. Amount: 30,000 SAR.
- Stat/2005/31: A generalized EOQ model with deteriorating items and time varying demand, deterioration, and costs. Z. Balkhi and L. Tadj. Amount: 30,000 SAR.
- Math/2006/01: Optimal control of deteriorating production inventory systems. M. Bounkhel and L. Tadj. Amount: 11,500 SAR.
- Stat/2006/31: Optimal control of an inventory system with ameliorating and deteriorating items. L. Tadj and A. Sarhan. Amount: 11,000 SAR.
- Stat/2006/32: Parameters estimations of a Weibull model using dependent masked data. A. Sarhan and L. Tadj. Amount: 11,000 SAR.
- Stat/2006/40: Optimal control of a hybrid periodic-review production inventory system with disposal. A. Foul and L. Tadj. Amount: 17,000 SAR.
- Stat/2007/01: Optimal control of a production inventory system with Weibull distributed deterioration. A. Al-Khedhairi and L. Tadj. Amount: 11,000 SAR.
- Stat/2007/10: A Hysteretic bulk quorum queue with a choice of service and optional re-service. L. Tadj. Amount: 11,000 SAR.
- Stat/2005/06/B: Introduction to Stochastic Processes. L. Tadj and A. Sarhan. Amount: 16,000 SAR.
- Stat/2006/06/B: Introduction to Reliability Theory. A. Sarhan and L. Tadj. Amount: 20,000 SAR.
- Stat/2006/09/B: Introduction to Integer Programming. Z. Balkhi and L. Tadj. Amount: 25,000 SAR.

COOPERATION

- **June 2009 - May 2010. Research Professor**, École Polytechnique de Montréal, Department of Mathematics and Industrial Engineering, Montréal, QC, Canada.

I worked in collaboration with Dr. Mohamed-Salah Ouali, in the domain of planning and strategic optimization tools, on a book project dealing with the exploitation of minimal repair models in the management of transportation and energy production assets.

Book Title: Replacement Models with Minimal Repair.

Publisher: Springer.

PUBLICATIONS

- *Theses*
 - Tadj, L. (1993). Queueing Systems with Random Server Capacity and System Dependent Service Delay. (Ph.D. Dissertation).
 - Tadj, L. (1986). The Lovász Basis Reduction Algorithm and the Subset Sum Problem. (M.S. Thesis).
 - *Refereed Papers*
- 2020** • Choudhury, G. and Tadj, L., An unreliable batch arrival retrial queueing system with Bernoulli vacation schedule and linear repeated attempts, International Journal of Operations Research and Information Systems, Vol. 11, Issue 1, Article 4, (pages 83-109).
- 2019** • Bounkhel, M., and Tadj, L., Model predictive control of the harvesting effort of a sustainable seafood with a nonlinear state equation, Mathematical Problems in Engineering, Vol. 2019, Article ID 5823465, 7 pages.
- Hamdi, A. and Tadj, L., Augmented Lagrangian approach to the newsvendor model with component commonality, Mathematical and Computational Applications, Vol. 24, No. 2, 55-73.
 - Bounkhel, M., Tadj, L., and Hedjar, R., Steady-state analysis of a flexible Markovian queue with server breakdowns, Entropy, Vol. 21, No. 3, 259-271.
 - Bounkhel, M., Tadj, L. and Benhadid, Y., Hedjar, R., Optimal control of nonsmooth deteriorating production systems with stock-dependent demand and with or without backorders, Symmetry, Vol. 11, No. 2, 183-195.
- 2018** • Tadj, L., Note on an unreliable quorum queueing system with random server capacity, Queueing Models and Service Management, Vol. 1, No. 1, 131-139.
- 2017** • Tadj, L., An unreliable quorum queueing system with single and multiple vacations, Asia-Pacific Journal of Operational Research, Vol. 34, No. 6, Article ID 1750036, 16 pages.
- Pooya, A., Pakdaman, M., and Tadj, L., Exact and approximate solution for optimal

- inventory control of two-stock with reworking and forecasting of demand, *Operational Research, An International Journal*, Vol. 19, No. 2, 333-346.
- Alnowibet, K. and Tadj, L., Steady-state analysis and optimization of the unreliable M/G/1 queueing model under D-policy, *Journal of Computational and Theoretical Nanoscience*, Vol. 14, No. 4, 1168–1176.
 - Bounkhel, M., Tadj, L., and Asik-Dizdar, O., Predictive control of a production system that uses advertising, *Arabian Journal for Science and Engineering*, Vol. 42, Issue 7, 2961–2969.
- 2016**
- Alnowibet, K. and Tadj, L., Optimal D-policy for an unreliable single server queueing model with bulk arrivals, *Journal of Statistics and Mathematical Sciences*, Vol. 2, Issue S1 (Special Issue: Mathematics Trends and Multivariate Statistical Analysis), 45-52.
 - Bouras, A., Hedjar, R., and Tadj, L., Production planning in a three-stock reverse-logistics system with deteriorating items under a periodic review policy, *Journal of Industrial and Management Optimization*, Vol. 12, No. 3, 1075-1089.
- 2015**
- Choudhury, G., Tadj, L., and Deka, M., An unreliable server retrial queue with two phases of service and general retrial times under Bernoulli vacation schedule, *Quality Technology and Quantitative Management*, Vol. 12, No. 4, 433-460.
 - Mezghiche, A., Moulai, M., and Tadj, L., Model predictive control of a forecasting production system with deteriorating items, *International Journal of Operations Research and Information Systems*, Vol. 6, No. 4, 19-37.
 - Bounkhel, M., and Tadj, L., Optimal harvesting effort for nonlinear predictive control model for a single species fishery, *Mathematical Problems in Engineering*, Vol. 2015, Article ID 367593, 8 pages.
 - Hedjar, R., Garg, A.K., and Tadj, L., Model predictive production planning in a three-stock reverse-logistics system with deteriorating items under continuous review policy, *International Journal of Systems Science - Operations and Logistics*, Vol. 2, Issue 4, 187-198.
 - Bouras, A. and Tadj, L., Production planning in a three-stock reverse-logistics system with deteriorating items under a continuous review policy, *Journal of Industrial and Management Optimization*, Vol. 11, No. 4, 1041-1058.
- 2014**
- Tadj, L. and Ke, J.-C., A single and batch service queue with random breakdowns, *International Journal of Services Sciences*, Vol. 5, No. 2, 116-132.
 - Tadj, L. and Yoon, K.P., Binomial schedule for an M/G/1-type queueing system with an

- unreliable server under N-policy, *Advances in Decision Sciences*, Vol. 2014, Article ID 819718, 6 pages.
- Sarhan, A., Tadj, L., and Hamilton, D.C., A new lifetime distribution and its power transformation, *Journal of Probability and Statistics*, Vol. 2014, Article ID 532024, 14 pages.
- 2013**
- Choudhury, G. and Tadj, L., The $M^X/G/1$ queue with unreliable server, delayed repair, and Bernoulli schedule under T-policy, *Applications and Applied Mathematics: An International Journal*, Vol. 8, Issue 2, 346-365.
 - Mezghiche, A. and Tadj, L., Note on a binomial schedule for an $M^X/G/1$ queueing system with an unreliable server, *ISRN Probability and Statistics*, Article ID 508045, 6 pages.
 - Ba-Rukab, O., Tadj, L., and Ke, J.-C., Binomial schedule for an $M/G/1$ queueing system with an unreliable server, *International Journal of Modelling in Operations Management*, Vol. 3, Nos. 3/4, 206-218.
 - Kim, J., Rekab, K., and Tadj, L., Automation of software testing for reusable components, *Journal of Modern Mathematics Frontier*, Vol. 2, No. 1, 1-13.
- 2012**
- Tadj, L., Choudhury, G., and Rekab, K. A two-phase quorum queueing system with Bernoulli vacation schedule, setup, and N-policy for an unreliable server with delaying repair, *International Journal of Services and Operations Management*, Vol. 12, No. 2, 139-164.
 - Foul A., Tadj, L., and Hedjar, R. Adaptive control of inventory systems with unknown deterioration rate, *Journal of King Saud University – Science*, Vol. 24, No. 3, 215-220.
 - Abid, C. and Tadj, L. Using data envelopment analysis to measure the efficiency of DP World ports, *International Journal of Business Performance Management*, Special Issue on "Performance and Efficiency Management of Service Sector Organizations", Vol. 13, No. 3/4, 257-273.
- 2011**
- Zhang, Z.G., Tadj, L., and Bounkhel, M. Cost evaluation in $M/G/1$ queue with T-policy revisited: Technical Note, *European Journal of Operational Research*, Vol. 214, Issue 3, 814-817.
 - Choudhury, G. and Tadj, L. The optimal control of an $M^X/G/1$ unreliable server queue with two phases of service and Bernoulli vacation schedule under N-policy, *Mathematical and Computer Modelling*, Vol. 54, Issues 1-2, 673-688.
 - Tadj, L., Choudhury, G., and Rekab, K. A note on a bulk arrivals quorum queueing system with unreliable server, *International Journal of Applied Management Science*, Vol.

3, No. 3, 316-325.

- Alnowibet, K. and Tadj, L. A quorum queueing system with unreliable server and restricted admission, *International Journal of Applied Management Science*, Vol. 3, No. 2, 174-185.
- Tadj, L., Zhang, Z.G., and Tadj, C. A queueing analysis of multi-purpose production facility's operations, *Journal of Industrial and Management Optimization*, Vol. 7, No. 1, 19-30.
- Tadj, L. and Abid, C. Optimal management policy for a single and bulk service queue, *International Journal of Advanced Operations Management*, Vol. 3, No. 2, 175-187.
- Abid, C. and Tadj, L. An integrated production inventory model with raw material, production, and final product deteriorations, *International Journal of Industrial and Systems Engineering*, Vol. 8, No. 3, 366-385.
- Choudhury, G., Tadj, L., and Ke, J.-C. A two-phase service system with Bernoulli vacation schedule, setup time and N-policy for an unreliable server with delaying repair, *Quality Technology and Quantitative Management*, Special issue devoted to "Management Policies of Queueing Control", Vol. 8, No. 3, 271-284.
- 2010** • Rekab, K., Tadj, L., and Thompson, H. Comparison of software reliability associated with risk and cost, *Antarctica Journal of Mathematics*, Vol. 7, No. 6, 633-643.
- Ragheb, M., Rekab, K., and Tadj, L. Validating a port simulation model with application to the port of Alexandria, Egypt, *International Journal of Simulation and Process Modelling*, Vol. 6, No. 2, 115-125.
- Ragheb, M., Rekab, K., and Tadj, L. Screening Alexandria port simulation model by using sequential bifurcation procedure, *International Journal of Simulation Modelling*, Vol. 9, No. 2, 98-109.
- Enaya, T., Rekab, K., and Tadj, L. A batch sequential sampling scheme for estimating the reliability of a series/parallel system, *International Journal of Reliability and Applications*, Vol. 11, No. 1, 17-22.
- Abid, C. and Tadj, L. Optimal policy of a hybrid queueing system, *International Journal of Mathematics in Operational Research*, Vol. 2, No. 4, 424-435.
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CONFERENCES PRESENTATIONS

- 2018** ○ Bounkhel, M., Hedjar, R., and Tadj, L. MPC-Based promotion planning in academia, Global Conference on Business and Finance, The Institute for Business and Finance Research, San Jose, Costa Rica.
- 2017** ○ Tadj, L., Garg, A.K., and Hamdi, A. Optimal production planning strategy for deteriorating items in terms of emission tax, pollution, and R&D investment, The Third International Conference of Business Management and Technology, FDU – Vancouver, BC, Canada.
 - Pooyaa, A., Pakdaman, M., and Tadj, L. Exact and approximate solution of a two-stock inventory system with forecast of demand and return rates, Clute Institute International Academic Conference on Business, Maui, Hawaii, USA.
- 2016** ○ Bounkhel, M. and Tadj, L. Nonlinear model predictive control of a single species fishery, The Seventeenth Annual Conference of the National Business and Economics Society, Los Cabos, Mexico.
- 2015** ○ Bouras, A. and Tadj, L. Production planning in a closed-loop supply chain with deteriorating items, The Western Business & Management Association International Research Conference for the Management Disciplines, San Francisco, California.
- 2011** ○ Hedjar, R., Abid, C., and Tadj, L. Optimal control of a continuous-review integrated production - forecasting system with stock-dependent demand and deteriorating items, The Fourth International Conference on Modeling, Simulation & Applied Optimization, Kuala Lumpur, Malaysia.
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- 1991 ○ Tadj, L. The Lovàsz basis reduction algorithm and the subset sum problem, 55th Annual Meeting of the Florida Academy of Sciences, St Leo, Florida, U.S.A.

INVITED TALKS

- **May 2014.** Invited by Dr. A. Hamdi, Department of Mathematics, Statistics, and Physics, Qatar University, Doha, Qatar.
Talk title: Effect of commonality on the shortage cost in a stochastic inventory system.
- **December 2012.** Invited by Dr. A. Bouras, Department of Industrial Engineering, King Saud University, Riyadh, Saudi Arabia.
Talk title: Production planning in a three-stock reverse-logistics system with deteriorating items.
- **December 2006.** Invited by Dr. M. Amir, Department of Mathematics and Statistics, Sultan Qaboos University, Muscat, Oman.
Talk title: Bulk service queues.

FDU SILBERMAN COLLEGE OF BUSINESS COLLOQUIUM

- **December 8, 2017.** Promotion planning in academia.
- **November 8, 2016.** Exact and approximate solution of a closed-loop supply chain with forecast of demand and return rates.

- **October 23, 2015.** Nonlinear model predictive control of a single species fishery.
- **October 31, 2014.** Augmented Lagrangian approach to a stochastic inventory system with commonality.
- **November 8, 2013.** Note on a binomial schedule for an $M^X/G/1$ queueing system with an unreliable server.
- **May 17, 2013.** Production planning in a three-stock reverse-logistics system with deteriorating items.

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