Curriculum Vitae

LOTFI TADJ

Alfaisal University, College of Engineering, Department of Industrial Engineering Riyadh, Saudi Arabia. Tel.: (966) 11 215-8966 (Office) E-mail: <u>ltadj@alfaisal.edu</u> E-mail: <u>lotftadj@yahoo.com</u> (alternate)

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.
 <u>Advisor</u>: Kannan, R.
- **B.S. Mathematics** (Operations Research), Université des Sciences et de la Technologie Houari Boumediène, Department of Mathematics, Algiers, Algeria, June 1983.

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.

TEACHING SEMINAR

• 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

- <u>Courses taught at Alfaisal University</u>.
 - 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, Operations Research II.
 - 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.
- <u>Courses taught at Dalhousie University</u>.
 - 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.
 - $\circ~$ 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.
 - o 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.
 - o 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.

FACULTY DEVELOPMENT

- Academic Workshops
 - November 2018. Faculty Development Seminar. Seminar prepared and presented by Dr. Mohamed Elattar, Chair of Software Engineering Department, Alfaisal University.
 <u>Seminar title</u>: 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.
 <u>Seminar title</u>: Teaching and Learning.
 - October 2018. Faculty Development Seminar. Seminar prepared and presented by Eng. Amjad Bou Matar, Laboratory Instructor of Electrical Engineering, Alfaisal University.
 <u>Seminar title</u>: 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.
 <u>Seminar title</u>: 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.
 <u>Workshop title</u>: 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.
 <u>Workshop title</u>: 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.
 <u>Workshop title</u>: Elements of Teaching Effectiveness.
- October 2008. Faculty Development Workshop. Workshop Leader Dr. Richard Lyons, Senior consultant faculty development associates, North Hutchinson Island, FL, USA. <u>Workshop title</u>: 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.
 <u>Workshop title</u>: Start Smart.

SERVICE TO THE UNIVERSITY

- <u>At Alfaisal University</u>
 - Member of the Scientific and Curriculum Committee.
 - o Member of the College Faculty Promotions Review Committee.
 - Academic advisor for 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.
 - \circ $\;$ Judge for the Annual Research Day Student Poster Competition.
 - Judge for the Engineering design EXPO & Competition.
 - Member of examination committee of graduate students defending their M.S. thesis in Engineering Management:
- <u>At Fairleigh Dickinson University</u>
 - 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.
- <u>At Dalhousie University</u>
 - 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.
- <u>At King Saud University</u>.
 - 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:
 - Member of examination committee of graduate students defending their M.S. thesis in Mathematics or Operations Research.

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.
 <u>Advisor</u>: 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
 - 2022 Present. International Editorial Board Member for Journal of Systems Thinking in Practice (JSTINP).
 - 2016 2022. 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.
 - o 2010 2011. 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.
 - o 2007 2008. Associate Editor for the Antarctica Journal of Mathematics.
 - o 2005 Present. Associate Editor for the Journal of Probability and Statistical Sciences.
 - 1991 2007. Advisory Technical Editor of the Journal of Applied Mathematics and Stochastic Analysis.
- I have refereed research papers for numerous journals.
- 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

- Queueing Theory
- Stochastic Processes
- Production systems
- Optimal Control
- Inventory Theory
- Service systems
- Statistical Inference
- Reliability Theory
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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 Lovàsz Basis Reduction Algorithm and the Subset Sum Problem. (M.S. Thesis).
- Refereed Papers
- **2023** Mejjaouli, S. and Tadj, L., Optimal pricing in ride-share platforms, Cogent Engineering. Vol. 10, Issue 1, Article: 2230710.
 - Al-Matar, N., AlMatar, M.H., and Tadj, L., Optimizing supply chain coordination through cross-functional integration: A dynamic model using optimal control theory, International Journal for Applied Information Management, Vol. 3, No. 2, 58-70.
 - Al-Matar, N. and Tadj, L., Controlling water quality of a firm's hydropower, International Journal of Global Operations Research, Vol. 4, No. 2, 59-66.
 - Al-Matar, N. and Tadj, L., On a closed-loop supply chain with graded returns, Statistics, Optimization & Information Computing, Vol. 11, No. 2, 531-540.
 - Mejjaouli, S. and Tadj, L., Internet digital content pricing and subscribers' control, Operations Research and Decisions, Vol. 33, No. 3.
 - Bounkhel, M., Tadj, L., and Hedjar, R., Entropy maximization for the busy period of a

on systems

single server queue, Communications in Statistics – Theory and Methods, 11 pages, (https://doi.org/10.1080/03610926.2022.2065301).

- Al-Matar, N. and Tadj, L., Predictive design of the F-policy Markovian queue, International Journal of Industrial Engineering: Theory, Applications, and Practice, Vol. 29, No. 5, 689-701.
 - Al-Matar, N, and Tadj, L., Optimal repair rate for a repairable machine with nonlinear state equation, Malaysian Journal of Fundamental and Applied Sciences, Vol. 18, 393-401.
- **2021** Tadj, L. and Djemili, S., Joint optimization of the marketing and operations functions, Opsearch. Vol. 59, 574–593.
- **2020** Bounkhel, M., Tadj, L., and Hedjar, R., Entropy analysis of a flexible Markovian queue with server breakdowns, Entropy, Vol. 22, No. 9, 979-991.
 - 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** Sarhan, A.M., Smith, B., and Tadj, L., Bayes inferences of the power Lindley distribution, International Journal of Reliability and Applications, Vol. 20, No. 2, 89-100.
 - 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.
- Tadj, L., Note on an unreliable quorum queueing system with random server capacity, Queueing Models and Service Management, Vol. 1, No. 1, 131-139.
- 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.
- 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.
- 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 threestock 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.
- 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.
- 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.
- 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.
- 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.
 - Choudhury, G., Tadj, L., and Paul, M. Batch arrival queue with a random setup time under Bernoulli vacation schedule, International Journal of Management Science, Vol. 15, No. 2, 1-21.

- Choudhury, G., Tadj, L., and Deka, K. A batch arrival retrial queueing system with two phases of service and service interruption, Computers and Mathematics with Applications, Vol. 59, 437-450.
- Aggoun, L., Benmerzouga, A., and Tadj, L. Optimal filtering of an advertising production system with deteriorating items, Applications and Applied Mathematics: An International Journal, Vol. 4, No. 2, 355-371.
 - Tadj, L. and Choudhury, G. A quorum queueing system with unreliable server, Applied Mathematics Letters, Vol. 22, No. 11, 1710-1714.
 - Tadj, L. and Abid, C. Optimal management policy for a single and bulk service queue under Bernoulli vacation schedules, International Journal of Applied Decision Sciences, Vol. 2, No. 3, 262-274.
 - Choudhury, G., Ke, J.-C., and Tadj, L. The N-policy for an unreliable server with delaying repair and two phases of service, Journal of Computational and Applied Mathematics, Vol. 231, 349-364.
 - Choudhury, G. and Tadj, L. An M/G/1 queue with two phases of service subject to the server breakdown and delayed repair, Applied Mathematical Modelling, Vol. 33, 2699-2709.
- **2008** Sarhan, A.M. and Tadj, L. Inference using record values from generalized exponential distribution with application, Bulletin of Statistics & Economics, Vol. 2, No. A08, 72-85.
 - Bounkhel, M., Hedjar, R., and Tadj, L. Nonlinear receding horizon control of production inventory systems with deteriorating items, Yugoslav Journal of Operations Research, Vol. 18, No. 1, 37-45.
 - Benhadid, Y., Tadj, L., and Bounkhel, M. Optimal control of production inventory systems with deteriorating items and dynamic costs, Applied Mathematics E-Notes, Vol. 8, 194-202.
 - Sarhan, A.M., Tadj, L., Al-Khedhairi, A., and Mustafa, A. Equivalence factors of a parallel-series system, Applied Sciences, Vol. 10, No. 1, 219-230.
 - Balkhi, Z. and Tadj, L. A generalized EOQ model with deteriorating items and time varying demand, deterioration, and costs, International Transactions in Operational Research, Vol. 15, No. 4, 509-517.
 - Al-Khedhairi, A.I., Sarhan, A.M., and Tadj, L. Estimation of the generalized Rayleigh distribution parameters, International Journal of Reliability and Applications, Vol. 7, No. 1, 1-12.

- Tadj, L., Sarhan, A.M., and El-Gohary, A. Optimal control of an inventory system with ameliorating and deteriorating items, Applied Sciences, Vol. 10, No. 1, 243-255.
- Aggoun, L. and Tadj, L. A partially observed hybrid production inventory system, Journal of Probability and Statistical Sciences, Vol. 6, No. 1, 25-37.
- El-Gohary, A., Tadj, L., and Al-Rasheedi, A. Using optimal control to adjust the production rate of a deteriorating inventory system, Journal of Taibah University for Science, Vol. 1, No. 1, 1-9.
- Tadj, L. and Ke, J-.C. A hysteretic bulk quorum queue with a choice of service and optional re-service, Quality Technology & Quantitative Management, Vol. 5, No. 2, 161-178.
- Sarhan, A.M., Tadj, L., and Al-Malki, S. Estimation of the parameters of the generalized linear failure rate distribution, Bulletin of Statistics & Economics, Vol. 2, No. S08, 52-63.
- 2007 Bounkhel, M. and Tadj, L. Optimal design of a bulk service queue, Investigação Operacional, Vol. 27, No. 2, 131-138.
 - El-Gohary, A., Tadj, L., and Al-Rahma, A. Optimal control of a stochastic production planning model with different demand rates, International Journal of Applied Mathematics, Vol. 20, No. 3, 333-349.
 - Foul, A., Djemili, S., and Tadj, L. Optimal and self-tuning optimal control of a periodicreview hybrid production inventory system, Nonlinear Analysis: Hybrid Systems, Vol. 1, Issue 1, 68-80.
 - Al-Khedhairi, A.I. and Tadj, L. A bulk service queue with a choice of service and reservice under Bernoulli schedule, International Journal of Contemporary Mathematical Sciences, Vol. 2, No. 23, 1107-1120.
- Foul, A. and Tadj, L. Optimal control of a hybrid periodic-review production inventory system with disposal, International Journal of Operational Research, Vol. 2, No. 4, 481-494.
 - Nowibet, K. and Tadj, L. A quorum queueing system with Bernoulli vacation schedule and restricted admission, Advanced Modeling and Optimization, Vol. 9, No. 1, 171-180.
 - Al-Khedhairi, A.I. and Tadj, L. Optimal control of a production inventory system with Weibull distributed items deterioration, Applied Mathematical Sciences, Vol. 1, No. 35, 1703-1714.
 - Hedjar, R., Bounkhel, M., and Tadj, L. Self-tuning optimal control of periodic-review production inventory systems with deteriorating items, Advanced Modeling and

Optimization, Vol. 9, No. 1, 91-104.

- Choudhury, G., Tadj, L., and Paul, M. Steady state analysis of an M^X/G/1 queue with two phase service and Bernoulli vacation schedule under multiple vacation policy, Applied Mathematical Modelling, Vol. 31, 1079-1091.
- Dshalalow, J.H., Kim, S., and Tadj, L. Hybrid queueing systems with hysteretic bilevel control policies, Nonlinear Analysis: Special Series on Hybrid Systems and Applications, Vol. 65, No. 11, 2153-2168.
- Sarhan, A. and Tadj, L. Parameters estimations of Weibull model using dependent masked data, International Journal of Applied Mathematics, Vol. 19, No. 1, 105-124.
- Tadj, L., Bounkhel, M., and Benhadid, Y. Optimal control of production inventory systems with deteriorating items, International Journal of Systems Science, Vol. 37, No. 15, 1111-1121.
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- 2017 o 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 O 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.
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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.
 - <u>Talk title</u>: 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. <u>Talk title</u>: 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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