Date:13/09/2021

CURRICULUM VITAE

Personal Details

Name:	Michael Dreyfuss	Address:	Shear Yashuv 25, Jerusalem
Telephone:	02-5712093	Cell-phone:	0544970091
Email:	dreyfuss@jct.ac.il	Fax:	
Birth Date:	06/07/1978	Birth Place:	Basel, Switzerland
Immigration Date:	2000	Citizenship:	Switzerland, France
Military/National Service:		Marital Status:	Married+6

1. Academic Education

2008: PhD Industrial Engineering and Management, Ben Gurion University
Modeling and Analysis of a Variety of Exchangeable-Item Repair Systems with Spares
Supervisors: Prof. Posner, Prof. Korach

2005: M.Sc Industrial Engineering and Management, Ben Gurion University
Modeling and Analysis of a Variety of Exchangeable-Item Repair Systems with Spares
Supervisors: Prof. Posner, Prof. Korach

2003: Education Diploma Jerusalem College of Technology,

2002: B.Tech Industrial Engineering and Management, Jerusalem College of Technology

2001: B.Sc. Computer Engineering and Communication, Jerusalem College of Technology

2. Academic Appointments

- 2019 – current: Senior faculty member(מרצה בכיר), Department of Industrial and Management Engineering, Jerusalem College of Technology, Jerusalem, Israel.
- 2006 – 2019: Faculty member(מרצה), Department of Industrial and Management Engineering, Jerusalem College of Technology, Jerusalem, Israel.
- 2001-2006: Teaching Assistant(מתרגל), Department of Industrial and Management Engineering, Jerusalem College of Technology, Jerusalem, Israel.

3. Publications

1. Dreyfuss, M., Posner, M.J.M. (2014) Determining customer delay in an $M^B/G/\infty$ exchangeable item repair system with spares, *INFOR*, Vol. 52, No. 2, pp.51–58, Impact: 0.189, Q3(SJR), citations:4.
2. Dreyfuss, M., Giat, Y. (2017) Multi-Echelon Exchangeable-Item Repair System Optimization, *Military Operations Research*, Vol. 22, No.1, pp.35-49, Impact: 0.176, Q4(SJR), citations:3.
3. Dreyfuss, M., Giat Y. (2017) Optimal Spares Allocation in an Exchangeable-Item Repair System with Tolerable Wait, *European Journal of Operational Research*, Vol.261, No.2, pp.584-594, Impact: 3.297, **Q1**(SJR), citations:12.
4. Dreyfuss, M., Giat, Y. (2018) A Risk Management Model for an Academic Institution's Information System, *Information Resources Management Journal*, Vol. 31, No.1, pp.83-96, Q3(SJR), citations:4.
5. Dreyfuss, M., Stulman, A. (2018) Waiting Time Distribution for an Exchangeable Item Repair System with Up to Two Failed Components, *Annals of Operations Research*, Vol. 261, No.1, pp.167-184, Impact: 1.709, **Q1**(SJR).

CURRICULUM VITAE

6. Dreyfuss, M., Stulman, A. (2018) Waiting Time Distribution for an Exchangeable Item Repair System with Two Failed Components, *International Journal of Operational Research*, Vol. 32, No.3, pp.380-396, Q2(SJR).
7. Dreyfuss, M., Giat, Y. (2018) The Window Fill Rate with Nonzero Assembly Times: Application to a Battery Swapping Network, *Communications in Computer and Information Science*, Vol. 884, pp. 42-62. Q3(SJR).
8. Dreyfuss, M., Giat, Y. (2018) Decision Support Information System for Urban Lighting, *Issues in Informing Science and Information Technology*, 15, pp. 109-124. h5-index: 14.
9. Rothstein, A., Dreyfuss, M. (2018) Ranking of Elements in System Reliability Modeling: The Least Influence Method, *Systems Engineering*, Vol. 21, No.5, pp. 501-508. Impact factor: 0.5, Q2(SJR).
10. Dreyfuss, M., Giat, Y., Stulman., A. (2018) The Window Fill Rate in a Repair Shop with Cannibalization, *Computers and Operations Research*, Vol. 98, No.1, pp.13-23, Impact factor: 2.6, **Q1**(SJR).
11. Dreyfuss, M., Giat, Y. (2018) Optimal allocation of spares to maximize the window fill rate in a two-echelon exchangeable-item repair system, *European Journal of Operational Research*, Vol. 270, No.3, pp.1053-1062, Impact factor: 3.297, **Q1**(SJR).
12. Dreyfuss, M., Laske, R., Stulman, A., (2019) Cost- effectiveness of cochlear implantation in adults, *Otology and Neurotology*, Vol. 40, No. 7, pp. 892-899. Impact factor: 2.024, **Q1**(SJR).
13. Dreyfuss, M., Giat, Y., (2019) Allocating spares to maximize the window fill rate in a periodic review inventory system, *International Journal of Production Economics*, Vol. 214, pp.151-162. Impact factor: 3.493, **Q1**(SJR).
14. Dreyfuss, M., Stulman, A. (2019) Cannibalisation in a repair/replacement Inventory System, *International Journal of Logistics Systems and Management*, Vol. 34, No.2, pp.139-153. Q2(SJR).
15. Dreyfuss, M., Giat, Y. (2019) The Effect of Customer Patience on Multiple-Location Inventory Systems. In *Optimization in Large Scale, Springer*, pp.201-219.
16. Dreyfuss, M., Novik, I. (2020) A puzzled driver is a better driver: Enforcing speed limits using a randomization strategy. *Journal of Global Optimization*, Vol. 76, pp.645-660, Impact factor: 1.733, **Q1**(SJR).
17. Dreyfuss, M., Sher, M. (2019) Policies for operating enforcement cameras, *Journal of Transportation Safety & Security*, Vol. 12, No.6, pp. 746-763, Impact factor: 0.465, Q2(SJR).

CURRICULUM VITAE

18. Giat, Y., Dreyfuss, M. (2020), A composite risk model for an Information system's security, "*Optimizing Data and New Methods for Efficient Knowledge Discovery and Information Resources Management: Emerging Research and Opportunities*. IGI Global, 2020. 74-97.
19. Dreyfuss, M., Giat, Y. (2020), The window fill rate in a periodic review inventory system with and without order crossover, accepted to the *International Journal of Production Research,* https://doi.org/10.1080/00207543.2020.1825863
20. Dreyfuss, M., Giat Y. (2016), Identifying security risk modules in information systems *(InSite)* 2016, 41-51, citations: 3.
21. Dreyfuss, M., Giat, Y. (2017), Window Fill Rate in a Two-echelon Exchangeable-Item Repair-System. *Operations Research Proceedings 2016*, Springer, 293-299.
22. Dreyfuss, M. and Giat Y., (2017), Optimizing Spare Battery Allocation in an Electric Vehicle Battery Swapping System, *ICORES*, pp. 38-46. (Acceptance rate of 20%). –Best Paper Award Winner. citations:4
23. Dreyfuss, M., Novik, I. (2017), Enforcing Speed limits Using a Randomization Strategy. *Proceedings of the VIII International Conference on Optimization and Applications (OPTIMA-2017)* Petrovac, Montenegro, October 2-7, 173-180, http://ceur-ws.org/Vol-1987/
24. Dreyfuss, M., Giat, Y. (2018), Window Fill Rate with Compound Arrival and Assembly Time. *Operations Research Proceedings 2017,* Springer, 677-686.
25. Giat, Y., Dreyfuss, M.(2019), Optimizing Spares in a Multiple Location Facility with Periodic Review, *Procedia Manufacturing 39*, 1673-1680.
26. Dreyfuss, M., Giat, Y.(2020). The optimal reorder policy in an in inventory system with spares and periodic review, *Operations Research Proceedings 2019*, pp.687-692. https://doi.org/10.1007/978-3-030-48439-2_83.
27. Barron Y., Dreyfuss, M.(2021), A triple (S, s, l)-thresholds base-stock policy subject to uncertainty environment, returns and order cancellations, *Computers and Operations Research*. Impact factor: 2.6, **Q1**(SJR), https://doi.org/10.1016/j.cor.2021.105320
28. Dreyfuss, M., Laske, R. D.(2021), Cost Effectiveness of Cochlear Implantation in Single-Sided Deafness, forthcoming in *Otology & Neurotology*. Vol 42(8). Pp.1129-1135. Impact factor: 2.024, **Q1**(SJR).
29. Dreyfuss, M., Laske R. D.(2021), Cost-effectiveness of Septorhinoplasy. *Facial Plastic Surgery & Aesthetic Medicine*. Impact factor: 3.787, **Q1**(SJR), https://doi.org/10.1089/fpsam.2021.0122.
30. Saadon, G., Haddad, Y., Dreyfuss M., Simoni, N. An Autonomous Decision-making process within SDN Resources Orchestrator for an Optimal Allocation of Resources, forthcoming by the *IET Networks.* Q2(SJR), https://doi.org/10.1049/ntw2.12031

Forthcoming:

1. Dreyfuss, M., Shaki Y., Yechiali, U., The double-space parking problem, accepted to the *Spectrum*. Impact factor: 2.141, **Q1**(SJR).

4. Funded Projects, Grants or Contracts [in chronological, *numbered* order**]**

1. (2018) Grant from the Tel Hashomer hospital. (Keren Alrov) of 100'000 ILS. (10/40)
2. (2020) Grant from the Israeli Science Ministry of 25'000 ILS.

5. Other Relevant Academic and Professional Activities

Masters supervision:

2020-2021: 1 thesis supervision

Reviewing papers:

1. Reviewing manuscript ANOR-D-18-00023 for Annals of Operations Research.
2. Reviewing manuscript IJPE-D-18-01877 for International Journal of Production Economics.
3. Reviewing manuscript MOR-2019-0010 for the Military Operations Research Journal
4. Reviewing manuscript BMS-CSENG-2019-HT47-867-1 for the Recent Patents on Computer Science Journal.
5. Reviewing manuscript MOR-2019-0053 for the Military Operations Research Journal.
6. Reviewing manuscript CAIE-D-19-01835 for Computers & Industrial Engineering.
7. Reviewing manuscript MOR-2019-0053.R1 for the Military Operations Research Journal.
8. Reviewing manuscript CAIE-D-19-01835R1 for Computers & Industrial Engineering.
9. Reviewing manuscript IJITDM-D-20-00111
10. Reviewing manuscript IJITDM-D-20-00111 R1
11. Reviewing manuscript IJITDM-D-20-00111 R2
12. Reviewing manuscript SETA-D-21-02502
13. Reviewing manuscript JTTE-D-21-00535

Papers under Revision:

1. Dreyfuss, M., Ehrman, C.M., Towards Identifying a Unique Proposition Strategy for Post High School Seminaries: Some new Insights.
2. Dreyfuss M., Giat, E, Giat, Y., Reducing emergency department length to stay for walk-in patients presenting with headaches, submitted to the *World Journal of Emergency Medicine*.
3. Dreyfuss, M., Giat, Y., Stulman, A. The window fill rate in a periodic repair system with spares, submitted to *Operational Research Society*.

4. Cohen-Vaizer, M., Dreyfuss, M. Shoorok, N. Shinnawi S., Laske R. D. Should residents around the world continue to learn stapes surgery? A Cost-Effectiveness Analysis, submitted to *Laryngoscope*.
5. Dreyfuss, M., Manes E., Aharon, Y. Why we trust the mediocre: A Markovian approach to the Trust Game, submitted to *EJOR*.

Working Papers:

1. Dreyfuss, M., Giat, Y., Shaki Y., TEU and FEU Containers Shipping Facility Optimization.
2. Dreyfuss, M., Giat, Y., Stock Levels and Repair Sourcing in a Periodic Review Exchangeable Item Repair System.
3. Dreyfuss, M., Pinto, G. A model for investing in Research and Teaching.

Other projects:

1. Dreyfuss, M., Giat, Y., Comparing Continuous and Periodic Review Policies in a Two Echelon Inventory.
2. Dreyfuss, M., Urgency operating plan for an air force base.
3. Dreyfuss, M., Drezner, N., Periodic review in a system with customer tolerable wait with an ABC-inventory approach.
4. Dreyfuss, M., Stulman, A., Level-Crossings in an Exchangeable-item repair system.
5. Dreyfuss, M., Goldenberg, M. Solving the Snake-in-the-box Problem by Integer Programming
6. Dreyfuss, M., Manes, E. The strategic decisions in a Trust game.
7. Dreyfuss, M., Manes E. Evolutionary simulation in a Trust game.
8. Cohen-Vaizer, M., Dreyfuss, M. Shoorok, N. Shinnawi S., Laske R. D. A Cost-Effectiveness Analysis of stapes surgery. A geographical analysis.
9. The optimal assignment problem in a pandemic situation.
10. Cost effectiveness of cochlear implantation in an elderly population.
11. Dreyfuss, M, Stulman, A. A heuristic analysis of the priority customer problem in an exchangeable-item repair system.

Conferences:

- Presenting Poster at Conference of Otology and Neurotology 2019, Davos, Switzerland.
- Chair of Transportation session at ORSIS2019, Israel.

CURRICULUM VITAE

- Reducing Transportation Cost by Optimizing Freight Utilization - With a Case Study for Intel's supply chain at ORSIS2019, Israel.
- Allocating spares to maximize the window fill rate in a periodic review inventory system at ORSIS2019, Israel.
- A note on the double parking problem at ORSIS2019, Israel.
- Optimal allocation of spares to maximize the window fill rate in a two-echelon exchangeable-item repair system at EURO2018, Valencia, Spain.
- A MILP approach to optimize the fuel problem in a factory at ORSIS2018, Beer Sheba, Israel.
- The Window Fill Rate in a Repair Shop with Cannibalization at ORSIS2018, Beer Sheba, Israel.
- Enforcing Speed limits Using a Randomization Strategy at OPTIMA2017, Petrovac, Montenegro.
- Window Fill Rate with Compound Arrival and Assembly Time at GOR2017, Berlin, Germany.
- Window Fill Rate in a Two-echelon Exchangeable-Item Repair-System at GOR2016, Hamburg, Germany.
- Waiting Time Distribution for an Exchangeable Item Repair System with Up to Two Failed Components at ORSIS2016, Israel.
- Pooling Spares to Maximize the Window Fill Rate in a Two-echelon Exchangeable-Item Repair-System at ORSIS2016, Israel.
- Fill Rate Window as a Criterion for Spares Allocation at ICOR2015, Barcelona, Spain
- Deployment of cameras of the Israeli Police – ORSIS 2015 Israel
- Fill Rate Window as Criterion for Spares Allocation – ORSIS 2015 Israel
- Multi-echelon Exchangeable-item Repair System Optimization – IEM 2015 Israel
- Customer delay in an Exchangeable MB/G/∞ Repair System with Spares – ORSIS 2012 Israel
- Optimal Spares Provisioning for an Exchangeable-Item Repair System – ORSIS 2008 Israel
- Modeling and analysis of Variety of Exchangeable-Item Repair Systems with Spares Provisioning – ORSIS 2007 Israel

Other publications:

- Publication of paper with Dr. Laske on webpage of Otology Neurotology journal: https://www.facebook.com/Otology-Neurotology-281145305252951/
- Publication in the Israel Hayom newspaper: https://www.israelhayom.co.il/opinion/715947
- Publication in the Arutz Sheva: https://www.inn.co.il/news/456744

CURRICULUM VITAE

Seminars:

- 2021: Webinar for USZ, Cost-effectiveness of Cochlear Implantation Adults, Children, Single Sided Deafness
- 2017: JCT, Jerusalem, The Window Fill Rate for a Multi-Component Exchangeable-Item Repair System with Cannibalization
- 2015: JCT, Jerusalem, Customer patience and the optimal spares allocation in a repair system
- 2015: JCT, Jerusalem, Optimal Spares Allocation in an Exchangeable-Item Repair System with Tolerable Wait