

RESUME

Name: Izack Cohen

Identity No: 023833890

Date of birth: July 26, 1968

Place of birth: Israel

Marital status: Married to Lilach, 5 children (Uri, Shiri, Libi, Aya and Yair)

Residence: Kibbutz Yassur, West Galilee, Israel

Academic Education

2004 - Ph.D., Faculty of Industrial Engineering and Management, Technion

1997 - M.Sc., Faculty of Materials Engineering, Technion

1991 - B.Sc., Faculty of Chemical Engineering, Technion

Academic Appointments

2010 – 2015 Visiting Lecturer, Faculty of Industrial Engineering & Management, Technion

2007 – 2008 Adjunct lecturer, Faculty of Industrial Engineering and Management, Technion

Professional Experience

1991 - 2010 Lieutenant Colonel, Israeli Air-Force, Israel Defense Forces

Academic Professional Activities

2007 – Ad hoc referee for: Omega, Naval Research Logistics, Operations Research, Interfaces, Manufacturing and Service Operations Management, IIE Transactions, BIRD

Public Voluntary Activities

Member of the managing committee of the school for gifted children at Karmiel.

Chairman of the mutual aid fund – Kibbutz Yassur

Honors

2008 - Head of methodology and logistics branch, Israeli Air Force

2005 - Head of materials research division, Israeli Air Force

1997 - Research rank, Ministry of Defense

1991 - Best undergraduate research project, Israel Institute of Chemical Engineers

Research Students and Post-docs

Noa Zychlinski, M.Sc., Developing fluid models for Mass Casualty Events, Primary advisor (co-advisor Prof. Avishai Mandelbaum), completed July 2012.

Elad Landau, M.Sc., Multi-echelon supply chains of repairable parts, Primary advisor (co-advisor Prof. Avraham Shtub), research proposal submittal date - April 2012.

Nehemia Yaron, M.Sc., Parallel testing in project management settings: the impact of new information, Primary advisor (co-advisor Prof. Avraham Shtub), research proposal submittal date - September 2012.

Chen Epshtein, M.Sc., Motion and task planning for autonomous maritime Dubins vehicles, Primary advisor (co-advisor Prof. Tal Shima), research proposal submittal date - February 2013.

Aviv Gruber, Post doc (together with Prof. Boaz Golany), 2012-2013.

Publications

Theses

2004 - Ph.D. Dissertation title: Management of Multi-Project Systems in Stochastic Environments, Thesis Advisors: Professor Avraham Shtub, Professor Boaz Golany, Faculty of Industrial Engineering and Management, Technion

1997 - M.Sc. Dissertation title: Phase Formation in a Nickel-Aluminum Coated Ti-Al(Fe) Intermetallic, Thesis Advisor: Professor Arie Levin, Faculty of Materials Engineering, Technion

Refereed Journal Articles

1. A. Katsman, A. Ginzburg, T. Werber, I. Cohen, L. Levin, Nickel-Aluminide coating of TiAl by a two-stage process, *Surface and Coatings Technology*, Vol. 127, pp. 220-223, **2000**.
2. I. Cohen, A. Mandelbaum, A. Shtub, Multi-project scheduling and control: A process-based comparative study of the Critical Chain methodology and some alternatives, *Project Management Journal*, Vol. 35, pp. 39-50, **2004**.
3. I. Cohen, B. Golany, A. Shtub, Managing stochastic finite capacity multi-project systems through the Cross Entropy methodology, *Annals of Operations Research*, Vol. 134, pp. 183-199, **2005**.
4. I. Cohen, B. Golany, A. Shtub, The stochastic Time-Cost Tradeoff Problem: A robust optimization approach, *Networks*, Vol. 49, pp. 175-188, **2007**.
5. I. Cohen, B. Golany, A. Shtub, Resource allocation in stochastic, finite-capacity, multi-project systems through the Cross Entropy methodology, *Journal of Scheduling*, Vol. 10, pp. 181-193, **2007**.
6. E. Hershko, N. Mandelker, G. Gheorghiu, H. Sheinkopf, G. Shemesh, I. Cohen, O. Levy, Assessment of fatigue striation counting accuracy using high resolution scanning electron microscope, *Engineering Failure Analysis*, Vol. 15, pp. 20-27, **2008**.
7. I. Cohen, Improving time critical decision making in life threatening situations: Observations and insights, *Decision Analysis*, Vol. 5, pp. 100-110, **2008**.
8. A. Kossoy, Y. Khoptiar, C. Cytermann, G. Shemesh, H. Katz, H. Sheinkopf, I. Cohen, N. Eliaz, The use of SIMS in quality control and failure analysis of electrodeposited items inspected for hydrogen effects, *Corrosion Science*, Vol. 50, pp. 1481-1491, **2008**.
9. I. Cohen, Kaizen and stochastic networks support the investigation of aircraft failures, *Interfaces*, Vol. 40, pp. 208-221, **2010**.
10. I. Cohen, M. Iluz, A. Shtub, A simulation-based approach in support of project management training for systems engineers, *Systems Engineering*, Vol. 16 (forthcoming **2013**).
11. I. Cohen, A. Mandelbaum, N. Zychlinski, Minimizing mortality in a Mass Casualty Event: Fluid networks in support of modeling and staffing, *IIE Transactions* (**accepted 8/2013**).

Submitted/Under revision

12. I. Cohen, M. Iluz, When cost-effective design strategies are not enough: Evidence from an experimental study on the role of redundant goals, submitted.

In work/working documents

13. Optimal stopping rules for parallel new product development (with N. Yaron), in work.
14. Joint optimization of inventory and repair decisions in a two-echelon supply chain (with M. Cohen, E. Landau), in work.

15. An operational model for a supply chain of repairables with different repair costs and durations (with N. Avital, A. Gruber).

Book Chapters

16. D.P. Kroese, R.Y. Rubinstein, I. Cohen, S. Porotsky, T. Taimre, The Cross-Entropy Method in J.J. Cochran, L.A. Cox, P. Keskinocak, J.P. Kharoufeh and J.C. Smith (Ed.), *Wiley Encyclopedia of Operations Research & Management Science*, Springer (forthcoming 2013).

Grants

Motion and task planning for autonomous maritime Dubins vehicles, the Technion Autonomous Systems Program, Primary Investigator (with Prof. Tal Shima from the faculty of Aerospace Engineering) – 2013-2015.

Optimization of stocking and repair decisions, A&D organization, Primary Investigator (a contract is not signed yet, expected start October 2013).

Invited conference sessions

POMS 2013 – invited session on Supply Chain management

Euro Informatics 2013 – invited session on Project Management

Conference Articles

1. Cohen, I., L. Levin, A. Ginzburg and T. Werber, “Phase formation in a TiAl-base intermetallic coated by Ni and Al”, The 8th Israel Materials Engineering Conference IMEC VIII, Ben-Gurion University of the Negev, pp. 76, 1997.
2. Kressel, I., G. Ghilai, S. Gali, N. Hackman, H. Leibovich, D. Peled, A. Brot, U. Sol, E. Grosu, I. Cohen, M. Ben-Noon, S. Jiny, Y. Meir, R. Halevi, L. Alon and A. Atzmoni, “Design substantiation and application of boron-epoxy patch repair on an F-16 fuselage skin”, Proceedings of the 22nd ICAF Symposium, EMAS Publishing, 2003.
3. Cohen, I. and A. Shtub, “Critical chain multi-project scheduling and control – a simulation study”, The 1st Israeli Industrial Engineering Research Meeting, pp. 73-80, 2003.
4. Cohen, I., B. Golany and A. Shtub, “Managing stochastic, finite-capacity, multi-project systems through the cross-entropy methodology”, PMS 2004 - 9th International Workshop on Project Management and Scheduling, Institut National Polytechnique de Lorraine publishing, pp. 335-338, 2004.
5. Halevi, R., S. Bar – Moshe, A. Atzmoni, I. Cohen, M. Ben Nun, N. Kaplan, C. Ishbir and G. Zinger, “Using predictive maintenance concepts for structure integrity in the IAF”, ASIP 2007 (<http://www.asipcon.com/2008/pages/A-proceedings.html>), 2007.
6. Kaplan, N., G. Singer and I. Cohen, “Using business intelligence system for implementation of the predictive maintenance concept in the Israeli Air Force”, 15th Industrial Engineering and Management Conference, pp. 5e, 2008.
7. Cohen, I., M. Cohen, “Joint stocking and sourcing optimization for repairable parts”, MSOM, 2012.
8. Iluz, M., I. Cohen and A. Shtub, “Integration management: learning to see the big picture”, INCOSE IL2013 (forthcoming March 2013).
9. Cohen, I., M. Cohen, “The role of flexibility in joint stocking and sourcing policy for repairable parts”, POMS, 2013.
10. Cohen, I., “Lessons learned from teaching design to cost and benefit to cost strategies by SBT (Simulation Based Training)”, Euro Informatics, 2013.

11. Cohen, M., I. Cohen, “Flexible stocking and repair sourcing policies in multi -echelon service support environments”, MSOM, 2013.

Seminar Talks

Tel Aviv University (March 2012)

Technion (October 2012)