אפקה המכללה האקדמית להנדסה בתל אביב

Curriculum Vitae

Name: Yuval Cohen **Date: 03/10/2025**

1. Personal Details

Telelphone Number: +972-545398152
Local (IL): 0545398152
Electronic Address: yuvalc@afeka.ac.il
https://orcid.org/0000-0002-8225-6960

2. Higher Education

a. Undergraduate and Graduate Studies

Period of Study	Name of Institution and Department	Degree	Year of Approval of Degree
1992-97	University of Pittsburgh (USA)	Ph.D. Industrial Engineering	1998
1990-92	Technion (Haifa)	M.Sc. Industrial Engineering	1992
1985-89	Ben-Gurion University (Be'er-sheva)	B.Sc. Industrial Engineering	1989

3. Academic Ranks and Tenure in Institutes of Higher Education

Dates	Name of Institution and Department	Rank/Position
2024	Afeka Academic College of Engineering	Tenure
2019-Current	Afeka Academic College of Engineering	Associate Professor (Industrial Engineering)
2014-2019	Afeka Academic College of Engineering	Senior Lecturer (Industrial Engineering)
2008-2014	Open University (IL)	Senior Lecturer (Industrial Engineering)
2002-2008	Open University (IL)	Lecturer (Industrial Engineering)

4. Offices in Academic Administration

"*" Since last promotion; "**" Since tenure acceptance

Dates	Name of Institution and Department	Office/Position
**2025	Afeka Academic College of Engineering Industrial Engineering	Head of M.Sc. Thesis program in Engineering Management
*2022-Current	Afeka Academic College of Engineering	Member of the Afeka Appointments Committee
*2019 – Current	Journal of Intelligent Manufacturing (JIMS), ISSN: 0956-5515 (Print) 1572-8145 (Online). (H:85 , Impact factor: 7, Q1)	Associate Editor,
2019 – Current	International Federation of Automatic Control (IFAC). TC 5.1: Plant Control and Industrial Logistics	Vice chair of IFAC TC-5.1 committee (Plant Control and Industrial Logistics)
2014-Current	Afeka Academic College of Engineering Industrial Engineering	Member of the Industrial Engineering teaching and curriculum committee
2014-Current	Afeka Academic College of Engineering Industrial Engineering	Head: Operations management discipline in Industrial Engineering
2022	Int. Fed. Automatic Control (IFAC)	Chair of the IMS-2022 Workshop (IFAC workshop on Intelligent Manufacturing)
2002-2014	Open University (IL)	Head: Industrial Engineering B.Sc. program. (Established this program)

""** used below to mark contributions since job tenure acceptance (2024)

"*" used below to mark contributions since last appointment as Associate Professor

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

5. Scholarly Positions and Activities outside the Institution

5.1 Editorship

*2019 - Current: **Associate Editor**, Journal of Intelligent Manufacturing (JIMS), ISSN: 0956-5515 (Print) 1572-8145 (Online). **(H:85 , Impact factor: 7, Q1)**
https://link.springer.com/journal/10845/editorial-board.

*2025: Editor of the Proceedings 15th IFAC Workshop on Intelligent Manufacturing Systems IMS 2025, Koszalin, Poland, IFAC PapersOnline — ISSN 2405-8963

*2025: Applied Sciences, **Guest-Editor** of a Special Issue "Forging the Future of Resilient and Intelligent Manufacturing and Production".
https://www.mdpi.com/journal/applsci/special_issues/LV8X93LF4B

*2024: Sustainability, **Guest-Editor** of a Special Issue: Smart Sustainable Techniques and Technologies for Industry 5.0
https://www.mdpi.com/journal/sustainability/special_issues/788A32O340

*2023: Journal of Intelligent Manufacturing (JIMS), **Guest-Editor** of a Special Issue: "Intelligent Cobot Systems: Human-Cobot Collaboration in Manufacturing"
https://www.mdpi.com/journal/electronics/special_issues/human_robot_collab

*2023: Applied Sciences, **Guest-Editor** of a Special Issue "Advances in Smart Production & Logistics".
https://www.mdpi.com/journal/applsci/special_issues/Smart_Production_Logistics

*2022: IFAC Papersonline. Special issue **Editor**: "14th IFAC Workshop on Intelligent Manufacturing Systems IMS 2022: Tel-Aviv, Israel, 28-30 March 2022",
https://www.sciencedirect.com/journal/ifac-papersonline/vol/55/issue/2

*2022: Applied Sciences, **Guest-Editor** of a Special Issue "Smart Services: Artificial Intelligence in Service Systems".
https://www.mdpi.com/journal/applsci/special_issues/AI_Ser

*2019-2021: Journal of Intelligent Manufacturing (JIMS), Guest-Editor of a Special Issue: Intelligent Manufacturing Systems in Industry 4.0.
https://link.springer.com/article/10.1007/s10845-021-01769-0

*2019: International Journal of Advanced Manufacturing Technology (IJAMT), **Guest-Editor** of a Special Issue: Design and management of digital manufacturing and assembly systems in the Industry 4.0 era.
https://link.springer.com/article/10.1007/s00170-019-04595-0

*Current: International Advisory Board - International Journal of Operations Research and Information Systems (IJORIS)

*Current: International Advisory Board - International Journal of Productivity Management and Assessment Technologies (IJPMAT)

*Current: International Advisory Board - International Journal of ICT Research in Africa and the Middle East (IJICTRAME)

*Current: Editorial Review Board - International Journal of Artificial Intelligence (AI) in Business and Management (IJAIBM)

*Current: Editorial Review Board - International Journal of Strategic Decision Sciences (IJSDS)

2018: Proceedings Editor: Sinuany-Stern, Z., & **Cohen, Y.** (2018). ICIL 2018 : 14th International Conference on Industrial Logistics, 15-17 May, Beer Sheva, Israel : conference proceedings. Ben-Gurion University (ISBN: 978-965-572-573-5)

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

2017: **Book Editor:** Handbook of Research on Strategic Alliances and Value Co-Creation in the Service Industry, Harrisburg: PA, IGI Global. (in English, ISBN-13: 978-1522520849).

2015 - Assembly Automation (AA): **Guest-Editor** of a Special Issue: Volume 35, Issue 1: Special Issue on: Parts-feeding systems for assembly: micro and macro logistics. Emerald Publishing Company.

5.2 Research and Development Positions and Activities

*2019 – Current: **Vice chair of IFAC TC-5.1 committee** (Plant Control and Industrial Logistics) of the International Federation of Automatic Control (IFAC).
https://tc.ifac-control.org/5/1/members

*2025: Advisory Board Member & Editor of the Proceedings: 15th IFAC Workshop on Intelligent Manufacturing Systems IMS 2025, Koszalin, Poland, IFAC PapersOnline — ISSN 2405-8963

*2022 – Chair and editor of 14t IFAC Workshop on Intelligent Manufacturing Systems (IMS 2022), Online (originally planned for Tel-Aviv, Israel), 29-30, March 2022.

*2021 – Session chair and proceedings Associate editor – INCOM 2021: 17th IFAC Symposium on Information Control Problems in Manufacturing, Budapest, Hungary.

*2021 – Organizing committee member – ICIL 2021: 5th International Conference on Industrial Logistics, Zakopane, Poland

2018 - (Afeka: December 20) Initiating and organizing a conference on Quality Management (at Afeka Tel-Aviv academic college of engineering)

2018 – Organizing committee member and Chair's special assistant of the International Conference on Industrial Logistics ICIL-2018 at Ben-Gurion University.

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

6. Participation in Scholarly Conferences

"**"used below to mark contributions since job tenure acceptance (2024)

"*"used below to mark contributions since last appointment as Associate Professor

a. Active Participation

a.1. International Conferences

Date	Name of Conference	Place	Subject of Lecture/Discussion	Role
1** 11/09/2025	15th IFAC Workshop on Intelligent Manufacturing Systems	Koszalin, Poland	1. Generative Assembly Line Design: Optimizing Task assignment, Equipment Selection and Balancing 2. Exploring the Skills Revolution: Strategic Upskilling and Reskilling Human Operators for Advanced Manufacturing Ecosystems 3. Session chair: Advances Toward Smart Digitized Shopfloors	Co-author Speaker Co-author Speaker Organizing Committee member Session chair
2** 30/06/2025	11th IFAC Conference on Manufacturing Modelling, Management and Control – IFAC MIM2025	Trondheim, Norway	A New Digital Twins Technique for Minimizing Setup Times in Reconfigurable Stations of a Mixed Model Flow Lines	Co-author
3** 26/08/2024	18th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2021).	Vienna, Austria	1. Generative Shopfloor Layout Design: challenges and Proposed Modelling Approach 2. Digital, Technological and AI Skills for Smart	Co-author Speaker Co-author Speaker

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

			Production Work Environment	
4* 26/06/2024	30th IJCIEOM – International Joint Conference on Industrial Engineering and Operations Management	Federal University of Bahia – Salvador, Brazil	Greening the European Defense Industry: Practical Insights from the EU´s Defense Technological and Industrial Base (EDTIB)	Co-author
5* 25/09/2023	1st Workshop in Low-Cost Digital Solutions for Automation 2023	Cambridge, UK	Member of the technical programme committee.	25/09/2023
6* 10/07/2023	IFAC World Congress 2023	Yokohama, Japan	A Framework for Integrating Artificial Intelligence in Digital Twins of Manufacturing Systems	Co-author Session chair
7* 10/07/2023	IFAC World Congress 2023	Yokohama, Japan	Multi-Objective Multi-Resource Task Allocation for Collaborative Robots Systems	Co-author
8* 08/06/2023	MECHFORUM 2023	Osaka Japan	On Digital Twins and Smart contracts in Assembly Lines of Complex Products	Invited Speaker
9* 17/07/2022	28th Interna. Joint Conference on Industrial Engineering and Operations Management	Mexico-city, Mexico	Optimizing Empty Containers Repositioning Problem by Using NFT technology and block chain smart contract	Co-author
10* 29/03/2022	14th IFAC workshop on Intelligent Manufacturing Systems	Online (due to COVID-19)	The “New Fit”: Skills and Competencies for The Future of Work	Co-author Session chair **Conf. Chair**
11* 09/06/2021	The 34th Conference of the European Chapter on	Madrid, Spain	An improved penalty heuristic for the generalized assignment and the TSP	Co-author

ע״ר 580260164
רח׳ מבצע קדש 38 תל-אביב, 6998812 טל׳: 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

	Combinatorial Optimization – ECCO			
12* 07/06/2021	17th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2021).	Budapest/ Hibrid, Hungary	(1) Framework for Block-Chain Deployment in Assembly of an Air-Craft or a Space-Craft (2) Digitization of Assembly Line for Complex Products – The Digital Nursery of Workpiece Digital Twins (3) Absenteeism and Turnover as Motivation Factors for Segmenting Assembly Lines	Speaker Session chair
13* 9/11/2020	13th annual International Conference of Education, Research and Innovation, ICERI2020	Seville, Spain	Exploring the importance of E-Professionalism competence in the education and training of new professionals	Speaker
14* October 2020	40th Brazilian National Meeting of Production Engineering (ENEGEP 2020)	Sao Paulo, Brazil	Supply-chains in pandemic crisis: challenges and lessons learned	**Keynote speaker**
15* July 2020	21st IFAC World Congress	Berlin, Germany	New Cobot Deployment Strategy in Manual Assembly Stations: Countering the Impact of Absenteeism	Speaker Session chair
16* February 2020	International Conference on Exploring Service Science IESS 2020	Porto, Portugal	Empirical Analysis of Call Center Load & Service Level for Shift Planning	Speaker

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

17* August 27-30, 2019	9th IFAC Conf. Manufacturing Modelling, Management and Control MIM 2019	Berlin, Germany	(1) Hierarchy of Smart Awareness in Assembly 4.0 Systems, (2) Exploring Opportunities for Artificial Emotional Intelligence in Service Production Systems	1.Speaker 2.Coauthor Session chair
18* July 15-17, 2019	25th IJCIEOM – Intern. Joint Conf. on Industrial Engineering and Operations Management,	Novi Sad, Serbia	(1) Frontline Employees Preferences for Interfacing Service 4.0 Artificial Emotional Intelligence Computerized Agent. (2) Enabling Digital Technologies for Service 4.0: A Literature Review Leading to Operator Assistance Framework (3) The impact of task time randomness on optimizing a multi-release planning, and assembly line balancing,	1.Speaker 2.Coauthor 3.Speaker Session chair
19 June 2018	31st European Conference on Combinatorial Optimization ECCO XXXI – Conference	Fribourg, Switzerland	When to Stop? A New Stop Criterion for Combinatorial Optimization Search Techniques	Speaker
20 June 2018	16th IFAC Symposium on Info. Control	Bergamo, Italy	(1) Workstation–Operator	1.Speaker 2.Speaker

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

	Problems in Manufacturing (INCOM-2018)		Interaction in 4.0 Era: WOI 4.0 (2) Workstation–Operator Interaction in 4.0 Era: WOI 4.0	Session chair
21 May 15-17, 2018	14th International. Conf. on Industrial Logistics (ICIL 2018)	Beer-Sheva, Israel	(1) Retailer's Optimal Purchase Mix of Bundles and Separate Products in a Supply-Chain of Single Period Items, 14th, (2) Scheduling on-going research and development projects (3) Optimal road project portfolio selection under limited local authorities' budgets in polynomial time	1.Speaker 2.Speaker 3.Speaker Session chair. Conf. Organizer Proceedings editor
22 March 26-28, 2018	17th Annual Security Conference Securing the Interconnected world	Las Vegas, USA	Adding Network Exposure to Environmental Measures in Security Risk Scoring Models, ,	Coauthor
23 July 2017	20th IFAC World Congress	Toulouse, France	Assembly system configuration through Industry 4.0 principles: the expected change in the actual paradigms	Speaker Session chair
24 July 2017	The Intern. Joint Conference on Industrial Engineering & Operations Management IJCIEOM 2017	Valencia, Spain	When to Stop? A New Stop Criterion for Combinatorial Optimization Search Techniques	Speaker Session chair

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

25 June 27 – 29, 2017.	International Conference on Production and Operations Management Society (POMS),	Tel-Aviv, Israel	Framework for Personal Rapid Transit Feasibility studies,	Speaker
26 May 2017	Annual Conference of the Institute of Industrial and Systems Engineering (IISE).	Pittsburgh, PA, USA	(1) Formulating Polynomial Time Solutions to Certain Combinatorial Problems (2) Common Service Demand Pattern for Service Capacity Planning	1.Speaker 2.Speaker
27 May 2017	International Conference on Exploring Service Science (IESS 2017)	Rome, Italy	Customer Satisfaction from Inner-City Services: a Case Study.	Speaker
28 July 2016	22nd Intern. Conference on Industrial & Systems Engineering (International IISE XXII)	San-Sebastian, Spain	Common service demand pattern for service capacity planning	Speaker
29 May 2016	International Conference on Exploring Service Science, IESS 2016	Bucharest, Romania	Modelling a manager's work as a service activity	Speaker
30 July 6-8, 2015	XXI, Intern. Conference on Industrial Engineering IIE	Aveiro, Portugal.	(1) Integrating Strategic Considerations and Value Co-Creation in Project Management (2) Managing Continuing	1.Speaker 2.Speaker

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

			Projects: Optimizing the Version-Release Policy	
31 May 2015	Conference on Digital Forensics, Security and Law	Daytona Beach, Florida USA	Continuous Monitoring System Based on Systems' Environment	Coauthor
32 May 2015	*24th Industrial & Systems Engineering Research Conference (ISERC)*;	Nashville, USA	(1) Scheduling Continuous Projects with Version Releases (2) Dynamic Strategic Planning in Project Management: Optimizing Project's Value	1. 2.Speaker Speaker Session chair
33 February 4-6 2015	*Exploring Services Science, 6th International Conference, IESS 2015*	Porto, Portugal	Service Oriented Acquisition Models for Serving Products with Short Expiration Period	Speaker

Continued list (condensed format for saving space):

Condensed format list of active participation in international conferences:

2003-2015 – each conference counted once (condensed format)

34. **Cohen Y.,** Etgar R., Gelbard R., Optimizing Planning and Scheduling Product/Software Releases using MPSO, *Proceedings of the 23th Industrial Engineering Research Conference (ISERC)*; **Montreal, Canada; May 2014**.
    - Meltser A. **Cohen Y.**, Avigal M., Conclusions from Comparing Genetic Algorithms for U-shaped Assembly Line Balancing, *Proceedings of the 23th Industrial Engineering Research Conference (ISERC)*; **Montreal, Canada; May 2014.**
35. **Cohen Y.**, Faccio M., Absenteeism/Turnover Analysis in Mixed-Model Assembly Lines, *Proceedings of the 22nd International Conference on Production Research (ICPR 22)*, **Iguassu Falls, Brazil, July 2013.**
    - **Cohen Y.**, Bukchin Y., Optimizing Work-Sharing Assignments for Replacements of Absentees in Assembly Lines, *Proceedings of the 22nd International Conference on Production Research (ICPR 22)*, **Iguassu Falls, Brazil, July 2013.**

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

- **Cohen Y.,** Span of Control in Long Assembly Lines – Segmenting the Line, *Proceedings of the 22nd International Conference on Production Research (ICPR 22)*, **Iguassu Falls, Brazil, July 2013**.

36. **Cohen Y.,** On Capacity Planning for Multi-Stage Multi Model Production Lines with Parallel Machines, *Proceedings of the IAFC Conference on Manufacturing Modeling and Control (MIM)*, **Saint Petersburg, Russia, June, 2013.**

37. **Cohen Y.,** Record breaking statistics: implications for optimization search-techniques and risk management, International Workshop on Applied Probability (IWAP-2012**), Jerusalem, Israel, June, 2012**.

38. **Cohen Y.,** and Delorme X., Column Generation Approach for Planning the Operation of Reconfigurable Production Line Segments with Bidirectional Conveyance System, 14th IFAC Symposium on Information Control Problems in Manufacturing (INCOM-2012), **Bucharest, Romania, May, 2012**.

39. **Cohen Y.,** Singer G., Golan M., Goren-Bar D., Automating the Transformation From a Prototype to a Method of Assembly, *Proceeding of the International Conference on Industrial Electronics, Technology and Automation* (*IETA 11*), in IEEE's: *Proceedings of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering* (*CISSE*); **Bridgeport, Connecticut, USA,** December 2011.

40. **Cohen Y.,** A route card modeling technique for complex assembly, *21st International Conference on Production Research (ICPR 21)*, **Stuttgart, Germany, July 2011.**

41. **Cohen Y.,** Zwikael O., Sadeh A.; Optimal Project Subsets Selection in Polynomial Time, Proceedings of the 20th Industrial Engineering Research Conference (IERC); **Reno, NV, USA; May 2011**.

- **Cohen Y.;** Assembly line design with shared machines, Proceedings of the 20th Industrial Engineering Research Conference (IERC); **Reno, NV, USA; May 2011.**

42. **Cohen Y.** Goren-Bar D., New Automated Assembly Model Based On Automated Route Card Scheme, *Proceeding of the International Conference on Industrial Electronics, Technology and Automation* (*IETA 10*), in IEEE's: *Proceedings of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering* (*CISSE*); **Bridgeport, Connecticut, USA, December 2010.**

43. **Cohen Y.;** The Impact of Absenteeism and Turnover in Assembly Lines and Strategies for Overcoming Them, *Proceedings of the Manufacturing and Service Operations Management Conference (MSOM 2010)*, **Haifa, Israel; June 2010.**

44. **Cohen Y.;** A New Technique for Solving the Assembly Line Design Problem, *Proceedings of the 19th Industrial Engineering Research Conference* (*IERC*); **Cancun, Mexico; May 2010**.

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

- **Cohen Y.;** Optimizing Purchase Mix of Bundles and Separate Products in the Supply-Chain, *Proceedings of the 19th Industrial Engineering Research Conference* (*IERC*); **Cancun, Mexico; May 2010**.
- **Cohen Y.;** Planning for Assembly Lines Absenteeism and Turnover, *Proceedings of the 19th Industrial Engineering Research Conference* (*IERC*); Cancun, **Mexico; May 2010**.

45. **Cohen Y.**, Keren B., New modeling framework for project risk analysis with stochastic risks, Proceedings of the International Symposium on Stochastic Models in Reliability Engineering, Life Sciences and Operations Research (SMRLO), **Beer-Sheva, Israel, February 2010**.

- Gurevich G., ., Keren B., **Cohen Y.,** The impact of bundling perishable products on retailer and producer total profit, Proceedings of the International Symposium on Stochastic Models in Reliability Engineering, Life Sciences and Operations Research (SMRLO), **Beer-Sheva, Israel, February 2010**.

46. Sadeh A., **Cohen Y.,** Zwikael O., Using Sliding Frame Approach for Scheduling Large and Complex Projects, The IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), **Singapore, December 2009**.

47. **Cohen Y.** Wang M., Bidanda B., Transition Network for Automation Modeling: A Case Study, *Proceeding of the International Conference on Industrial Electronics, Technology and Automation* (*IETA 09*), in IEEE's: *Proceedings of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering* (*CISSE*); **Bridgeport, Connecticut, USA, December 2009.**

48. **Cohen Y.** Darel E.**;** Manual Assembly of Lots: Learning as a Drive for a Single Line Configuration, *International Conference of Production Research* (*ICPR*-20), **Shanghai, China, August 2009**.

49. Keren B., **Cohen Y**., Hadad Y., Trade-off optimization in project management: time, budget, and quality, *Proceedings of 23rd European Conference On Operational Research Conference* (*EURO*), **Bonn, Germany, June 2009.**

- Gurevich G., Keren B., **Cohen Y.**, Hadad Y., Optimal Bundling for single-period inventory problem, *Proceedings of 23rd European Conference On Operational Research Conference* (*EURO*), **Bonn, Germany, June 2009.**

50. **Cohen Y.,** Benson D., Keren B.; New Operations Planning Heuristic for LTL and Package Delivery Systems, *Proceedings of the 18th Industrial Engineering Research Conference* (*IERC*); **Miami, USA; May 2009**.

- **Cohen Y.,** Sarin S., A New Technique for Solving the Assembly Line Design Problem, *Proceedings of the 18th Industrial Engineering Research Conference* (*IERC*); **Vancouver, Miami, USA; May 2009**.

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

51. **Cohen Y.,** Automatic Translation of a Process Level Petri-Net to a Ladder Diagram, *Proceeding of the International Conference on Industrial Electronics, Technology and Automation* (*IETA 08*), in IEEE's: *Proceedings of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering* (*CISSE*);); **Bridgeport, Connecticut, USA, December 2008**.

52. **Cohen Y**, Dar-El E.; Applying a sliding frame approach for solving a new assembly line design problem, *Proceedings of the 17th Industrial Engineering Research Conference* (*IERC*); **Vancouver, Canada; May 2008**.

- **Cohen Y.,** Zwikael O., and Sadeh A.; Sliding-frame: a new promising approach in project scheduling, *Proceedings of the 17th Industrial Engineering Research Conference* (*IERC*); **Vancouver, Canada; May 2008.**

53. Sadeh A, **Cohen Y.,** and O Zwikael; A Heuristic Efficient Solution for Non-Delay Resource Constrained Project Schedule. In: Funda Sivrikaya and Serifoglu Umit Bilge (editors)*, Proceedings of the Eleventh International Workshop on Project Management and Scheduling (PMS)*; **Istanbul Turkey; April 2008,** *236- 239.*

54. **Cohen Y.,** Keren B.; A simple heuristic for assigning doors to trailers in cross-docks, *Proceedings of the International Conference on Industrial Logistics* (*ICIL*); **Tel-Aviv, Israel; March 2008**.

55. **Cohen Y.,** Wang M. E., and Bidanda B.; A modeling technique for execution and simulation of discrete automation, *Proceeding of the International Conference on Industrial Electronics, Technology and Automation* (*IETA 07*), in IEEE's: *Proceedings of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering* (*CISSE*); **Bridgeport, Connecticut, USA, December 2007.**

56. **Cohen Y.,** Sadeh A., and Zwikael O.; On the time dimension of risks in multi project environment, *Proceedings of the 16th Industrial Engineering Research Conference* (*IERC*); **Nashville, TN; May 2007**.

- **Cohen Y.,** Zwikael O., and Keren B.; Project dynamic scheduling using petri nets and pheromones, *Proceedings of the 16th Industrial Engineering Research Conference* (*IERC*); **Nashville, TN; May 2007.**

57. **Cohen Y.,** Wang M. E., and Bidanda B.; Modeling and implementation of agent-based discrete industrial automation, *Proceeding of the International Conference on Industrial Electronics, Technology and Automation* (*IETA 06*), in IEEE's: *Proceedings of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering* (*CISSE*); **Bridgeport, Connecticut, USA, December 2006**.

58. **Cohen Y.,** Sadeh A., and Rokach L.; New rule extraction approach using a modified QM algorithm, *Proceedings of the 15th Industrial Engineering Research Conference* (*IERC*)**; Orlando, FL; May 2006.**

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

- **Cohen Y.;** A Polynomial-time optimal inspection policy technique and its implementation, *Proceedings of the 15th Industrial Engineering Research Conference* (*IERC*)*;* **Orlando, FL; May 2006**.
- **Cohen Y.,** and Sarin S.; A Comparison of the effect of industrial learning on sequential vs. parallel batch assembly makespan, *Proceedings of the 15th Industrial Engineering Research Conference* (*IERC*); **Orlando, FL; May 2006**.
- **Cohen Y.,** Vitner G., and Sarin S.; Learning and buffers effects on work allocation of lots' assembly, *Proceedings of the 15th Industrial Engineering Research Conference* (*IERC*); **Orlando, FL; May 2006**.

59. **Cohen Y.,** Sadeh A., and Zwikael O.; An efficient technique for finding the shortest non-delay schedule for a resource-constrained project, *Proceedings of the 14th Industrial Engineering Research Conference* (*IERC*); **Atlanta, GA; May 2005.**

- **Cohen Y.,** Vitner G., and Sarin S.; Work allocation to stations with various learning slopes in assembly lines for lots, *Proceedings of the 14th Industrial Engineering Research Conference* (*IERC*); **Atlanta, GA; May 2005**.

60. **Cohen Y.,** Bidanda B., and Rokach L.; A new technique for modeling and implementation of agent-based discrete industrial automation, *Proceedings of the 15th International Conference on Flexible Automation and Manufacturing* (*FAIM*); **Bilbao, Spain; July 2005**.

61. **Cohen Y.,** Sadeh A., and Zwikael O.; New efficient heuristic for resource constrained project scheduling, *Proceedings of the 18th International Conference of Production Research* (*ICPR*); **Salerno, Italy; August 2005.**

- **Cohen Y.,** and Vitner G.; Evaluating productivity by combining characteristics of BSC and QFD, *Proceedings of the 18th International Conference of Production Research* (*ICPR*); **Salerno, Italy; August 2005**.

62. **Cohen Y.,** Sadeh A., and Zwikael O.; A new approach for generating project activities on arcs network, *Proceedings of the 9th International Workshop on Project Management and Scheduling* (*PMS*); **Nancy, France; 2004;** pp. 80-83.

63. **Cohen Y**. and Vitner G.; Combining the characteristics of balanced score card and QFD into a new technique for evaluating productivity, *Proceedings of the 14th International Conference on Production and Quality Research* (*ISPQR*); **Miami, FL; February 2004**.

- **Cohen Y.,** and Vitner G.; Optimal Work allocation in batch assembly lines, under learning, *Proceedings of the 14th International Conference on Production and Quality Research* (*ISPQR*); ***Miami, FL*; February 2004**.

Information on participation in 9 international conferences prior to 2004 – to be supplied upon request

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

a.2. Local Conferences

Date	Name of Conference	Place	Subject of Lecture/Discussion	Role
1** *06/05/2025*	*2025 Annual Conference of Operations Research Society of Israel (ORSIS)*	Tel-Aviv University	1. Budgeted Traffic Network Design: A Heuristic Primal Constructive Approach	Speaker & Session Chair
2* *27/05/2024*	*2024 Annual Conference of Operations Research Society of Israel (ORSIS)*	Ben-Gurion University	2. On determining time-interval for monitoring dynamic arrival in responsive queuing systems 3. Sliding Frame Approach for Solving a New Assembly-Line Design Problem	Speaker Speaker
*3** *27/04/2023*	*22nd National Israeli convention on Industrial Engineering (IEM 2021)*	Ariel University	On Digital Twins and Smart contracts in Assembly Lines	Speaker & Session chair
*4** *03/08/2021*	*2021 Annual Conference of Operations Research Society of Israel (ORSIS)*	Technion Haifa Israel	An improved penalty heuristic for the assignment problem,	Speaker
*5** *01/04/2021*	*22nd National Israeli convention on Industrial Engineering (IEM 2021)*	Rishon LeZion (Lago) Israel	Framework for Smart Contracts and Block-Chain Technology Deployment in Assembly Systems	Speaker & Session chair
6* 19/02/2020	*9th Israeli Industrial Engineering and Management Research Conference*	Technion Haifa Israel	Smart control using adaptive machine learning for processes with closed-loop control in industry 4.0 environment: a novel framework	Speaker
7* 27,11,2019	*The 37 convention of the Israel*	Tel-Aviv	Causation analysis for improving quality	Speaker

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

	Society for Quality.	(David Intercont. Hotel)		
*8** *20/05/2019*	*2019 Annual Conference of Operations Research Society of Israel (ORSIS)*	*Shfaim* Israel	(1) Improving Personal Rapid Transportation system by utilizing smart distribution rules. (2) Polynomial Time Optimization of Road Construction Portfolio Selection under Limited Local Authorities Budgets (3) Simulating Elevated Rapid Transit System for Performance Analysis	Speaker
*9** *15/04/2019*	*20th Industrial Engineering and Management Conference* (*IEM*)	Tel-Aviv Israel	Optimizing Termination Criterion For Genetic Algorithms And Other Search Techniques	Speaker & Session chair
10 February 2016	International Symposium on Stochastic Models in Reliability Engineering, Life Sciences and Operations Research (SMRLO)	Beer-Sheva Israel	Determining Manager's Load and Control Span by Modeling Management as a Service Activity	Speaker
11 February 2015	*19th Industrial Engineering and Management Conference* (*IEM*)	Tel-Aviv Israel	(1)New approach for managing strategic and mega projects (2)Optimizing cloud costs (3)Determining the SOW of a continuing project releases	Speaker & Session chair
12 March 2014	*18th Industrial Engineering and Management Conference* (*IEM*)	Tel-Aviv Israel	(1) Retailer's Optimal Bundling Policy in a Supply-Chain of Single Period Items (2) Comparison of Three Genetic Algorithms for	Speaker & Session chair

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

			Mixed Model U-shaped Assembly Line Balancing	
13 March 2013	*6th Israeli Industrial Engineering Research Meeting* (*IIERM*)	Maale-Hachmisha Israel	(1) Determining the SOW of Product Releases of a continuous Project (2) Assembly Line: Optimizing the Number of Stations per Segment	Speaker
14 March 2012	*17th Industrial Engineering and Management Conference* (*IEM*)	Tel-Aviv Israel	(1) IT divide problem pertaining to planning and budgeting activities (2) The combined effect of multiple models sequencing and absenteeism/ turnover on the throughput of assembly lines	Speaker & Session chair
15 March 2011	*5th Israeli Industrial Engineering Research Meeting* (*IIERM*)	Dead-Sea Resort Israel	New automated assembly model based on automated route card scheme	Speaker
16 February 2010	Symposium on Stochastic Models in Reliability Engineering, Life Sciences and Operations Research (SMRLO)	Beer-Sheva	(1) The impact of bundling perishable products on retailer and producer total profit (2) Managing projects with stochastic risks	Speaker

Continued list (condensed format for saving space):

Condensed format list of active participation in local conferences:

each conference counted once (condensed format)

17. **Cohen Y.**; Load Plan Heuristic for a Network of Hubs and Terminals in Package Delivery Systems, *Proceedings of the ORSIS conference 2009*; **Herzlia, Israel; May 2009**.

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

- **Cohen Y**.; Load Plan Heuristic for a Network of Hubs and Terminals in Package Delivery Systems, *Proceedings of the ORSIS conference 2009*; **Herzelia, Israel; May 2009**.

18. **Cohen Y**., Dar-El E., Vitner G.; The sliding frame – extending the concept to various assembly line balancing problems, *Proceedings of the 4th Israeli Industrial Engineering Research Meeting* (*IIERM*); **Maalot, Israel; March 2009.**

- Gurevich G, Baruch K, **Cohen Y.;** Optimal bundling policy for the newsvendor problem, *Proceedings of the 4th Israeli Industrial Engineering Research Meeting* (*IIERM*)**; Maalot, Israel; March 2009**.

19. **Cohen Y**., Sadeh A., and Raz D.; From Node Routing to Arc Routing: Utilizing the Chinese Postman problem for Heuristically Solving the TSP, *Proceedings of the ORSIS conference 2008*; **Shfayim, Israel; May 2008**.

20. **Cohen Y.,** Zwikael O., and Sadeh A.; Using a sliding-frame approach for scheduling large and complex projects, *Proceedings of the 15th Industrial Engineering and Management Conference* (*IEM*); **Tel-Aviv, Israel; March 2008.**

21. **Cohen Y**., and Keren B.; A new efficient heuristic for cross-dock door assignment problem, *Proceedings of the ORSIS conference 2007*; **Maale-HaChamisha, Israel; May 2007.**

22. **Cohen Y.**, Sadeh A., and Zwikael O.; Extending a heuristic for resource constrained project scheduling (proceedings distributed in a CD), *Proceedings of the 14th Industrial Engineering and Management Conference* (*IEM*); **Tel-Aviv, Israel; March 2006.**

23. **Cohen Y**., and Sadeh A.; A new technique for generating AOA network from a list of precedence constraints, *Proceedings of the 13th Industrial Engineering and Management Conference* (*IEM*); **Tel-Aviv, Israel; 2004; p. 74e.**

- **Cohen Y.,** Vitner G., and Dar-El E.; Optimal work allocation in batch assembly lines, under homogeneous learning, *Proceedings of the 13th Industrial Engineering and Management Conference* (*IEM*); **Tel-Aviv, Israel; 2004; p. 96e.**

24. Sadeh A., and **Cohen Y.**; Finding wining combinations, *Operations Research Society of Israel Annual Meeting* (*ORSIS*); **Ashkelon, Israel, 2003.**

25. **Cohen Y.**; Minimization of the makespan in production lines under learning, *Proceedings of the Seventh Conference of Industrial Engineering and Management* (*IEM*); **Haifa, Israel; 1992**; Section 4.3.2.

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

b. Organization of Conferences and Sessions

"*" Since last promotion; "**" Since tenure acceptance

Date	Name of Conference	Place	Subject of Lecture/Discussion	Role
** 23 - 24 October, 2025	Enterprise Integration, Interoperability and Networking	Marbella, Spain	Digital Twin interoperability. Human machine interface	International Program Committee
** 23-24 September 2025	LODISA-25 International workshop	Cambridge, England, United Kingdom	Low-Cost Digital Solutions for Industrial Automation	Trchnical Program Committee
** 11-12. September, 2025	15th IFAC Workshop on Intelligent Manufacturing Systems	Koszalin, Poland	Generative Assembly Line Design: Optimizing Task assignment, Equipment Selection and Balancing The Digital and AI Skill Management Matrix in STEM : A Multi-Level Framework and Research Agenda	Proceedings editor Special Session Organizer International Program Committee
** 30 Oct. -2 Nov., 2025	11th ICIL International Conference on Industrial Logistics	Tokyo Japan		Scientific Committee Member
*26-31 August 2024	18th IFAC Symposium on Information Control Problems in Manufacturing (INCOM-2024)	Vienna, Austria	1. Advances Toward Smart Digitized Shopfloors 2. Human Work and Skills Advances Related to Smart Manufacturing	Special Session Organizer Special Session Organizer
*9-14 July 2023	**IFAC World Congress 2023**	Yokohama, Japan	Advances Toward Smart Digitized Shopfloors	Open Invited Track Organizer
*3-6 July 2023	**CoDIT'23 -** International	Rome, Italy	Conference organization	Program Committee

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

	Conference on **Co**ntrol, **D**ecision and **I**nformation **T**echnologies			Member
*29-30, March 2022	14th IFAC Workshop on Intelligent Manufacturing Systems (IMS 2022),	Online (COVID-19)	Conference organization	• **Chair** • **Editor**
*29-30, March 2022	14th IFAC Workshop on Intelligent Manufacturing Systems (IMS 2022),	Online (COVID-19)	Session: Advanced monitoring, prediction and control in industrial processes	Session chair
*10 June 2021	34th Conference of the European Chapter on Combinatorial Optimization (ECCO 2021)	Madrid Spain (hybrid)	Session: TSP and its variants	Session chair
*7 June 2021	17th IFAC Symposium on Information Control Problems in Manufacturing (INCOM-2021)	Budapest Hungary (hybrid)	Session: Assembly 4.0	Session chair & organizer
* July 2020	21st IFAC World Congress	Berlin Germany.	Session: Assembly 4.0	Session chair & organizer
* August 2019	9th IFAC Conference Manufacturing Modelling, Management and Control (MIM 2019)	Berlin Germany.	Session: Modeling design and operations of Industry 4.0 assembly systems: Towards Assembly 4.0	Session chair & organizer
*12-14 August 2019	13th IFAC Workshop on Intelligent Manufacturing Systems (IMS-2019)	Oshawa Ontario, Canada	Conference organization	Member: organizing committee
*15-17 July	25th IJCIEOM - International	Novi-Sad, Serbia	Session:	Session chair

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

2019	Joint Conference on Industrial Engineering and Operations Management		Advances in service systems – Session III-B	Member of scientific committee
* May 2019	The 2019 Annual Conference of Operations Research Society of Israel (ORSIS)	Shfaim, Israel	Session: Transportation 1 (smart transportation)	Session chair
* April 2019	The 20th Industrial Engineering and Management Conference (IEM)	Tel-Aviv Israel	Session: Customer relationship management & knowledge management	Session chair
11-13 June 2018	16th IFAC Symposium on Information Control Problems in Manufacturing (INCOM-2018)	Bergamo Italy	Session: Assembly 4.0	Session chair
15-17 May 2018	14th International Conference on Industrial Logistics (ICIL 2018)	Beer-Sheva Israel	Conference organizing committee member: Managed review & program organization	Chair's - main assistant. Organizing committee member
15-17 May 2018	14th International Conference on Industrial Logistics (ICIL 2018)	Beer-Sheva Israel	Session: "Inventory Logistics"	Session chair. Proceedings Editor
July 2017	20th IFAC World Congress	Toulouse: France.	Session: Assembly 4.0	Session chair
July 2017	The International Joint Conference	Valencia Spain	Session: Optimization	Session chair

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

	ICIEOM-(IJC2017)			Scientific committee member
June, 2015	The 24th Industrial Engineering Research Conference (IERC 2015)	Nashville TN USA	Session: Project Management	Session chair
February 2015	The 19th Industrial Engineering and Management Conference (IEM 2015);	Tel-Aviv Israel	Session: Project Management	Session chair
March 2014	The 18th Industrial Engineering and Management Conference (IEM 2014)	Tel-Aviv, Israel	Session: Project Management.	Session chair
14 July 2013	22nd Intern. Conference on Production Research (ICPR 22)	Iguassu Falls Brazil	Session: Production Systems and Management	Session chair
June, 2013	IAFC Conference on Manufacturing Modeling and Control (MIM 2013)	Saint Petersburg, Russia	Session: Balancing and Sequencing of Assembly and Machining Lines	Session chair
June 2012	The International workshop on Applied Probability (IWAP 2012)	Jerusalem Israel	Session: Extreme Value Statistics	Session chair
May 2012	The 14th IFAC Symposium on Information Control Problems in	Bucharest Romania	Session: Combinatorial design of reconfigurable production lines	Session chair

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

	Manufacturing (INCOM 2012)			
March 2012	The 17th Industrial Engineering and Management Conference (IEM 2012)	Tel-Aviv, Israel	Session: Assembly Line Design	Session chair
August 2011	International Conference on Production Research (ICPR 21),	Stuttgart, Germany	Session: Design Of Assembly Systems.	Session chair
June, 2010	The 19th Industrial Engineering Research Conference (IERC);	Cancun, Mexico	Session-1: Assembly line design and balancing, Session-2: Planning for Assembly Lines Dynamics	Two Sessions chair and organizer
February 2010	International Symposium on Stochastic Models in Reliability Engineering, Life Sciences and Operations Research (SMRLO 2010)	Beer-Sheva Israel	Session: Risk management	Session chair
August 2009	*The 20th International Conference of Production Research* (*ICPR*-20),	Shanghai China	Special session: representing production planning research in dedication of Prof. Dar-El memorial	Session chair
May 2009	*The 18th Industrial Engineering Research Conference (IERC)*;	Vancouver Canada	Session: Production & Mfg. Planning	Session chair

Information on organization of conferences and Sessions prior to 2009 to be supplied upon request.

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

7. Research Grants

a. Grants Awarded

Role in Research	Co-Researchers	Topic	Funded by/Amount (IS)	Year
1. Principal Investigator *	Shraga Shoval	Human-Cobot interaction	Ariel/Afeka: 50,000	2023
2. Principal Investigator	Erel Avineri	Feasibility Study of an Urban Elevated Transportation System	Transportation Ministry/500,000	2016
3. Principal Investigator	Evgenia Apartsin	Developing a methodology to analyze the population resilience in real time	Ben Gurion University/200,000	2012
4. Principal Investigator	N/A	Decision making under uncertainty	Open University/30,000	2010
5. Principal Investigator	N/A	Project scheduling	Open University/30,000	2007
6. Principal Investigator	N/A	Inventory Acquisition Decisions	Open University/35,000	2005
7. Principal Investigator	N/A	Developing Operating Measures for Municipality of Shoham	Eshkol Local Governance fund/50,000	2004
8. Principal Investigator	N/A	Learning in Inventory Acquisition Decisions	Open University/10,000	2003
9. Principal Investigator	Bopaya Bidanda	TalkMOST system—an intelligent voice-activated work-measurement system	Benjamin Franklin Foundation/ 270,000 ($60,000)	1995

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

10. Principal Investigator	N/A	Technology evaluation of two-dimensional bar-code symbologies	American National Standards Institute (ANSI)/225,000 ($50,000)	1993

Papers related to grants by serial number

Grant **-1**: Mittelman G., Avineri A., **Cohen Y**, Kariv Y. (2022) Techno-economic Analysis of Energy Supply to Personal Rapid Transit (PRT) Systems,*Applied Energy*. In press. https://doi.org/10.1016/j.apenergy.2021.118006.
Q1: H-212, Impact 10.5

Grant **-1**: **Cohen Y.,** Avineri E., Hoffman D., Framework for Personal Rapid Transit Feasibility studies, Production and Operations Management Society International Conference (POMS International conference), Tel-Aviv June 27 – 29, 2017.

Grant **-1**: Etgar R., **Cohen Y.** (2022) Roadmap Optimization: Multi-Annual Project Portfolio Selection Method. *Mathematics*. 10(9):1601. https://doi.org/10.3390/math10091601
Q2: Impact 2.2, Scopus Citescore 2.2.

Grant **-3**: Shavit T., Benzion U., **Cohen Y.** (2014) Behavioral decision making in the (Q,R) purchasing model: An experimental study, *Managerial and Decision Economics*, 35 (5) 2014, 357–370. Q3, H-55, Impact 1.4 (3 citations)

Grant **-3**: Benzion U., **Cohen Y.,** Shavit T. (2010) The newsvendor problem with unknown distribution, *Journal of Operational Research Society (JORS*), 61; 2010; 1022-1031.

Grant **-4**: **Cohen Y.** and Zwikael O.; Modelling and Scheduling Projects Using Petri Networks; *International Journal of Project Organization and Management* (*IJPOM*); 1 (2); 2009; 221-233.

Grant **-5**: Benzion U., **Cohen Y.,** Peled R., and Shavit T.; Decision-making and the newsvendor problem: an experimental study, *Journal of the Operational Research Society* (*JORS*); 59 (9); 2008; 1281-1287.

Grant **-6: Cohen Y**., and Vitner G.; Evaluating productivity by combining characteristics of BSC and QFD, *Proceedings of the 18th International Conference of Production Research* (*ICPR*); Salerno, Italy; August 2005.

Grant **-6**: **Cohen Y.** and Vitner G.; Combining the characteristics of balanced score card and QFD into a new technique for evaluating productivity, *Proceedings of the 14th International Conference on Production and Quality Research* (*ISPQR*); Miami, FL; February 2005.

Grant **-7**: **Cohen Y.,** Vitner G., and Dar-El E.; Optimal work allocation in batch assembly lines, under homogeneous learning, *Proceedings of the 13th Industrial Engineering and Management Conference* (*IEM*); Tel-Aviv, Israel; 2004; p. 96e.

Grant **-7**: **Cohen Y.,** Vitner G., and Sarin S.; Work allocation to stations with various learning slopes in assembly lines for lots, *Proceedings of the 14th Industrial Engineering Research Conference* (*IERC*); Atlanta, GA; May 2005.

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

Grant **-8**: **Cohen Y.,** Bidanda B., and Billo E. R.; Accelerating the generation of work-measurement standards through automatic speech recognition: A laboratory study, International Journal of Production Research (IJPR); 36 (10); 1998; 2701-2715.

Grant **-9**: Billo E. R., Bidanda B., **Cohen Y**., Fei C., and Petri K.; Performance standards and testing of two-dimensional bar-code systems for overhead scanning, Journal of Manufacturing Systems (JOMS); 15 (5); 1996; 305-315.

b. Submission of Research Pending

c. Submissions of Research Proposals-Not Funded

Role in Research	Co-Researchers	Topic	Funded by	Year	Score
Principal Investigator	Roy Gelbard (BIU)	Determining SOW of Product Release by Cluster Analysis of Project Activities	ISF (proposal ISF-192/13)	2013	N/A 2 Positive reviews (lack of reviewers)
Principal Investigator	Yossi Bukchin (TAU)	Maximizing throughput in lines under absenteeism and turnover: incorporating work-sharing, learning and cross-training	ISF (proposal ISF-127/12)	2012	N/A 3 Positive Reviews (no score)

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

8. Scholarships, Awards and Prizes

8.1 Grants and Awards

*2023: Afeka: Excellent researcher award

*2022: Afeka: Excellent researcher award

*2021: Afeka: Excellent researcher award

*2020: Afeka: Excellent researcher award

*2019: Afeka: Excellent researcher award

2018: Afeka: Excellent researcher award

2017: Afeka: Excellent lecturer award. Excellent researcher award

2016: BOOK OF THE YEAR AWARD by the Institute for Industrial and systems Engineering (IISE). Title: Introduction to Industrial Engineering, Second Edition, CRC Press, (in English, ISBN 9781498706018).

2016: Afeka: Excellent lecturer award. Excellent researcher award

2015: Afeka: Excellent lecturer award.

2014: Afeka: Excellent lecturer award. Afeka: Excellent researcher award

2013: Open University (IL): An award for academic faculty outstanding excellence (best faculty criteria score).

2012: Open University (IL): An award for academic faculty outstanding excellence (best faculty criteria score).

2011: Open University (IL): An award for academic faculty outstanding excellence (best faculty criteria score).

2009: Open University (IL): An award for academic faculty outstanding excellence (best faculty criteria score).

2008: Open University (IL): An award for academic faculty outstanding excellence (best faculty criteria score).

2004-2007: Open University (IL): An award for academic faculty outstanding excellence (best faculty criteria score).

8.2 Full Scholarships

1992-1997; University of Pittsburgh, PA, USA. Teaching assistant

1990-1992; Technion (IIT), Haifa Israel. Teaching assistant

1989; Ben-Gurion University, Be'er-Sheva, Israel. Teaching assistant

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

8.3 Prizes

2016; Book of the year award by the Institute for Industrial and systems Engineering (IISE). Title: Introduction to Industrial Engineering, Second Edition, CRC Press, (in English, ISBN 9781498706018).

2011; Award for advising the best final project, Afeka Tel-Aviv college of engineering.

2010; Exceptional lecturer award, Afeka Tel-Aviv college of engineering.

2000; FedEx Ground Recognition Award for Outstanding Planning Effort, Pittsburgh.

1988; Israel Transportation Association award for simulation of suggested traffic changes at Ben-Yehuda street in Tel-Aviv, Israel.

1992; Gutwierth graduate award of excellence for exceptional merits at the Technion, Haifa, Israel.

9. Teaching

9.1 Courses Taught in Recent Years

Year	Name of Course	Type of Course (Mandatory)	Degree	Number of Students
*2026	Engineering LLM Agents	Lecture Afeka (Elective)	B.Sc.	20
*2025-2026	Research Methods	Lecture Afeka (Mandatory)	M.Sc.	5
*2023-2026	Industry 4.0 and advanced manufacturing	Lecture (Afeka)	B.Sc.	20
*2023-2026	Supply-chain & Logistic Systems Management	Lecture (Bar-Ilan U.)	B.Sc.	35
*2008-2026	Operations Management 2	Lecture (Afeka)	B.Sc.	150
*2014-2026	Operations Management 1	Lecture (Afeka)	B.Sc.	150
*2014-2026	Layout Design	Lecture (Afeka)	B.Sc.	150
*2014-2026	Advanced topics in operations planning	Lecture (Afeka)	B.Sc.	20
2018-2022	Maintenance & Service Management Systems	Lecture (Bar-Ilan U.)	M.Sc.	25
2014-2020	Service Operations Management	Lecture (Afeka)	M.Sc.	20

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

2008-2014	Risk management	Lecture (Afeka)	B.Sc.	120
2005-2012	Quality and productivity management	Lecture (Open University)	B.Sc.	30
2007-2008	Research seminar	Seminar (HIT)	M.Sc.	25
2007-2008	Simulation	Lecture (HIT)	B.Sc.	40
2005-2007	Logistics	Lecture (HIT)	B.Sc.	40
2004-2006	Quality Management	Lecture (HIT)	B.Sc.	40

9.2 Supervision of Graduate Students

Name of Student	Title of Thesis	Degree	Years	Institution
*Amir Biton	The feeling of comfort and safety during an interaction between a cobot and a user	Ph.D. Dissertation main supervisor	2024-current	Ariel University
*Tal Ben-Zeev	Optimizing empty container routing using smart contracts	M.Sc. Thesis *Supervised the first year only	2021-2022 *Supervised first year only of 2 years	Bar-Ilan University, Management & Logistics
Ran Etgar	Version Release Optimization	Ph.D. Dissertaion main supervisor	2013-2018	Bar-Ilan University, Business Administration
Dov Hofman	Smart mobility: Private Rapid Transit in Tel-Aviv Metropolitan area.	M.Sc. Final project supervisor	2016	Afeka College of Engineering, Infrastructure Engineering and Management
Elad Peleg	Home Care improvement	M.Sc. Final project	2016	Afeka College of Engineering, Service

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

	by reorganization	supervisor		Engineering and Management
Sapir Farid	Load Analysis for Staffing Decisions in Call Centers	M.Sc. Final project supervisor	2015-2016	Afeka College of Engineering, Service Engineering and Management
Sasha Meltser	Genetic Algorithms comparisons for Mixed Model U-Line Balancing	M.Sc. Final project supervisor	2012-2013	The Open University of Israel, Computer Science
Marina Embon	Using the Chinese Postman technique for solving the Traveling Salesman Problem (TSP)	M.Sc. Final project supervisor	2012	Holon Institute of Technology, Technology Management
Miri Kedmi	Comparison of altrernative CRM systems for "YES" corp.	M.Sc. Final project supervisor	2010	Holon Institute of Technology, Technology Management
Alon Avgill,	Dynamic algorithm for quality control of GreenRoad control devices	M.Sc. Final project supervisor	2009	Holon Institute of Technology, Technology Management

10. Miscellaneous

10.1 Organizing one-day local conferences

2018 - Initiating and organizing a conference on Project Management (at Afeka academic college of engineering).

2015-2017, Initiating and organizing an annual conference on Quality Management (at Afeka academic college of engineering).

2010-2013; Initiating and organizing an annual conference on Quality Management (at the Open University).

2005, 2006, 2007; Initiating and organizing a conference on Logistics Management (at the Open University).

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

2003, 2004, 2006; Initiating and organizing a conference on Quality Management (at Holon Institute of Technology).

2007; Initiating and organizing a conference on Entrepreneurship and Entrepreneurial "Greenhouses" (at Holon Institute of Technology).

10.2 Organizing "Advanced Manufacturing Technologies" Course for Industrial Managers

2021, 2022, 2023, 2024 - Initiating and organizing a full course (8 weekly meetings) on "Advanced Manufacturing Technologies" (at Afeka academic college of engineering).

11 Professional Experience

1989; *Ben-Gurion University*; Teaching Assistant (Industrial Engineering).
1989; *Ziggelman Institute*; Consultant.
1990-1992; *Technion* (IIT); Teaching Assistant (Industrial Engineering).
1992-1997; *University of Pittsburgh;* Teaching/Research Assistant (Industrial Engineering).

1997 - 1998; *TEFEN-USA*, Industrial Engineer.

1998 - 2001; *FedEx Ground*; Senior Operations Planning Analyst,
Responsible for the rolling five-year plan ($ 5,000,000,000): hub capacity, hubs and facilities expansions, relocations, and new locations, plus hub load-plans (5 million avg. daily packages), and load-factor control (of 5,000 trailers).

Part 1

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

PUBLICATIONS

A. **Ph.D. Dissertation**

Title of Dissertation: A new discrete control modeling technique for automated industrial systems

Date: April 25, 1998

Number of pages: 152

Language: English

University: University of Pittsburgh

Supervisor: Prof. Bopaya Bidanda

Available on Proquest:
https://search.proquest.com/openview/21eac43ec23c78b5a511d7e5f316f73c/1?pq-origsite=gscholar&cbl=18750&diss=y

B. **Scientific Books (Refereed)**

** Contract with Yuval Cohen for 3rd edition of "Introduction to Industrial Engineering" signed on July 2025 with "Taylor & Fancis – CRC press" – expected by the end of 2027.

1. Sinuany-Stern, Z., & **Cohen, Y.** (2018). ICIL 2018: 14th International Conference on Industrial Logistics, 15-17 May, Beer Sheva, Israel: **conference proceedings**. Ben-Gurion University. (in English, ISBN 978-965-572-573-5)
2. Shtub A., **Cohen Y.**, (2016) Introduction to Industrial Engineering, Second Edition, **CRC Press**, (in English, ISBN 9781498706018). 436 Pages.

   BOOK OF THE YEAR AWARD by the Institute for Industrial and systems Engineering (IISE).
3. Shtub A., **Cohen Y.,** (2014) Project Management for Industrial Engineering Students (revised edition), The Open University of Israel, (in Hebrew, 152 pages).
4. Shtub A., **Cohen Y.,** (2014) Introduction to Industrial Engineering, (First Edition), The Open University of Israel, (in Hebrew, two volumes: vol. 1: 435 pages, vol. 2: 523 pages).
5. **Cohen Y.** (2012) Probability and Stochastic Models in Operations Research, The Open University of Israel, ISBN: 978-965-06-1365-5 (in Hebrew: 474 pages).

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

6. Shtub A., **Cohen Y.,** Keren B., (2008) Project Management for Industrial Engineering Students, The Open University of Israel, ISBN: 978-965-06-0963-4 (in Hebrew: 612 pages).

Scientific Review Procedure

All these books were refereed by four professors from: the Technion, Tel-Aviv University, and Ben-Gurion University – having their approval (referral process documentation kept by the development department of the open university

C. Other Authored Books:

Book writing contract (2025) with CRC Taylor & Francis for: 3rd edition of Introduction to Industrial Engineering

D. Edited Books and Special Issues-Published

1. Edited books:

a. Rozenes S., **Cohen Y.,** (editors), (2017) Handbook of Research on Strategic Alliances and Value Co-Creation in the Service Industry, Harrisburg: PA, IGI Global. (in English, ISBN-13: 978-1522520849). https://www.igi-global.com/gateway/book/171696

b. **Book Professional and scientific editor** for the translation to Hebrew of the two volumes of "Production and Operations Analysis". The translation is the basis of two courses in the Open University:

1. Nahmias S. (2008) Operations Management 1 (in Hebrew), The Open University of Israel, ISBN: 965-06-0712-9;
2. Nahmias S. (2008) Operations Management 2 (in Hebrew), The Open University of Israel, ISBN: 965-06-0787-0.

2.Special Issues (Guest Editor)

*2024: Applied Sciences, Guest-Editor of a Special Issue "Advances in Internal Logistics and Material Handling for Smart Manufacturing". https://www.mdpi.com/journal/applsci/special_issues/LV8X93LF4B

*2024: Sustainability, Guest-Editor of a Special Issue: Smart Sustainable Techniques and Technologies for Industry 5.0. https://www.mdpi.com/journal/sustainability/special_issues/3V6Q75KC83

*2023: Journal of Intelligent Manufacturing (JIMS), Guest-Editor of a Special Issue: “Intelligent Cobot Systems: Human-Cobot Collaboration in

ע״ר 580260164
רח׳ מבצע קדש 38 תל-אביב, 6998812 טל׳: 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

Manufacturing". https://link.springer.com/article/10.1007/s10845-023-02142-z

*2023: Applied Sciences, Guest-Editor of a Special Issue "Advances in Smart Production & Logistics".

*2022: IFAC Papaersonline. Special issue Editor: "14th IFAC Workshop on Intelligent Manufacturing Systems IMS 2022: Tel-Aviv, Israel, 28-30 March 2022", **h**ttps://www.sciencedirect.com/journal/ifac-papersonline/vol/55/issue/2

*2022: Applied Sciences, Guest-Editor of a Special Issue "Smart Services: Artificial Intelligence in Service Systems". https://www.mdpi.com/journal/applsci/special_issues/AI_Ser

*2022, Applied Sciences, Volume 12, Issue 16, Title: Smart Services: Artificial Intelligence in Service Systems, August 2022. https://www.mdpi.com/journal/applsci/special_issues/AI_Ser

*2021, Journal of Intelligent Manufacturing, Volume 32, Issue7, Title: Intelligent manufacturing systems towards industry 4.0 era, April 2021. https://link.springer.com/journal/10845/volumes-and-issues/32-7

*2019, The International Journal of Advanced Manufacturing Technology, Volume 105, Issue 9, Title: Design and Management of Digital Manufacturing and Assembly Systems in the Industry 4.0 era, December 2019. https://link.springer.com/journal/170/volumes-and-issues/105-9

2015, Assembly Automation, Volume 35, Issue 1. Parts-feeding systems for assembly: macro and micro logistics, February 2015. https://doi.org/10.1108/AA-10-2014-084

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

E. Articles and Other Scientific Publications:

E-1. Articles in Refereed Journals

"**"used below to mark contributions since job tenure acceptance (2024)

"*"used below to mark contributions since last appointment as Associate Professor

Published

1. ** **Cohen, Y.,** Biton, A., & Shoval, S. (2025). Fusion of Computer Vision and AI in Collaborative Robotics: A Review and Future Prospects. *Applied Sciences*, *15*(14), 7905. https://doi.org/10.3390/app15147905, **Q2: Impact 2.8, Scopus Citescore 3.7.**
2. **Aperstein, Y., **Cohen, Y.**, & Apartsin, A. (2025). Generative AI-Based Platform for Deliberate Teaching Practice: A Review and a Suggested Framework. *Education Sciences*, 15(4), 405. https://doi.org/ 10.3390/educsci15040405
   Q1: H-68, Impact 3.8,
3. ****Cohen, Y.,** Faccio, M., & Rozenes, S. (2025). Vocal Communication Between Cobots and Humans to Enhance Productivity and Safety: Review and Discussion, *Applied Sciences*, 15, 726. https://doi.org/ 10.3390/app15020726
   Q2: Impact 2.8, Scopus Citescore 3.7.
4. **Naor,M. Pinto, G. Davidov, P. **Cohen, Y.** Izchaki, L., Hadieh, M., Ghaith M. (2024) Vertically-Take-off-and-Landing for Distribution of Parcel to Hospitals: A Case Study about Drones Utilization in Israel Healthcare Arena, Sustainability, In Press. **Q2: H-169, Impact 4.0**.
5. ***Cohen, Y.,** & Rozenes, S. (2023). New Framework for Complex Assembly Digitalization and Traceability Using Bill of Assembly and Smart Contracts. *Applied Sciences*, 13(3), 1884.
   Q2: Impact 2.8, Scopus Citescore 3.7.
6. *Faccio, M., **Cohen, Y.,** (2023) Editorial: Intelligent Cobot Systems: Human-Cobot Collaboration in Manufacturing, *Journal of Intelligent Manufacturing*, JIMS-D-23-00591R1, **Q1: H-85, Impact 7**
7. *Cohen, Y. Amorim, M. Reis, J. (2022) Editorial: Smart Services: Artificial Intelligence in Service Systems, *Applied Sciences*, Issue 16: Volume 12.
   Q2: Impact 2.8, Scopus Citescore 3.7.
8. *Reis, J., Rosado, D.P., **Cohen, Y**., Pousa, C., Cavalieri, A. (2022) Green Defense Industries in the European Union: The Case of the Battle Dress Uniform for Circular Economy. *Sustainability* 2022, 14, 13018. https://doi.org/10.3390/su142013018
   Q2: H-169, Impact 4.0.
9. *Rozenes, S. **Cohen Y.,** (2022) Artificial Intelligence Synergetic Opportunities in Services: Conversational Systems Perspective, *Applied Sciences*, 12,16, 1-18, 8363. https://www.mdpi.com/2076-3417/12/16/8363/pdf
   Q2: Impact 2.8, Scopus Citescore 3.7.

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

10. *Etgar R., **Cohen Y.** (2022) Roadmap Optimization: Multi-Annual Project Portfolio Selection Method. *Mathematics*. 10(9):1601. https://doi.org/10.3390/math10091601
    Q2: Impact 2.2, Scopus Citescore 2.2.
11. *Etgar R., Avineri E., **Cohen Y.** (2023) Personal Rapid Transit Capacity Evaluation for Inner-City: A Detailed Micro-Simulation Study, *International Journal of Transportation Science and Technology*, 12, 119–135. DOI: https://doi.org/10.1016/j.ijtst.2021.12.002
    Q1: H-18, Impact 3.5
12. *Mittelman G., Avineri A., **Cohen Y**, Kariv Y. (2022) Techno-economic Analysis of Energy Supply to Personal Rapid Transit (PRT) Systems, *Applied Energy*. In press. https://doi.org/10.1016/j.apenergy.2021.118006.
    Q1: H-212, Impact 10.5
    https://www.sciencedirect.com/science/article/pii/S0306261921013076
13. *Etgar, R., **Cohen, Y**. (2021) Optimizing termination decision for meta-heuristic search techniques that converge to a static objective-value distribution. *Operations-Research Spektrum (**OR spectrum**)* 44, 249–271. https://doi.org/10.1007/s00291-021-00650-z
    Q1, H-73, Impact 2.1
14. *Reis,J., **Cohen, Y.,** Melão, N., Costa, J., Jorge, D. (2021) High-tech Defense Industries: Developing Autonomous Intelligent Systems, *Applied Sciences*, (Special Issue: Smart Services: Artificial Intelligence in Service Systems). pp: 1-13.
    Q2: H-52, Impact 3.0
15. *Barari, A., de Sales Guerra Tsuzuki, M., **Cohen, Y**. Macchi M. (2021) Editorial: intelligent manufacturing systems towards industry 4.0 era. *Journal of Intelligent Manufacturing,* 32(7), 1793-1796. doi: 10.1007/s10845-021-01769-0; https://doi.org/10.1007/s10845-021-01769-0
    Q1: H-85, Impact 7.8
16. *Singer, G., **Cohen, Y.** (2021) A framework for smart control using machine-learning modeling for processes with closed-loop control in Industry 4.0, *Engineering Applications of Artificial Intelligence*, Volume 102, 2021, doi: https://doi.org/10.1016/j.engappai.2021.104236
    Q1: H-104, Impact 6.78
17. *Reis, J.; Amorim; M.; Melão, N**.; Cohen, Y**.; Costa, J. (2021) Counterintelligence Technologies: An Exploratory Case Study of Preliminary Credibility Assessment Screening System in the Afghan National Defense and Security Forces. *Information (MDPI)*, 12, 122, 1-12. https://doi.org/10.3390/info12030122
    New Journal
18. ***Cohen, Y.**, Singer, G. (2021) A smart process controller framework for Industry 4.0 settings. *Journal of Intelligent Manufacturing* (JIMS), 32(7), 1975-1995. https://doi.org/10.1007/s10845-021-01748-5
    Q1: H-85, Impact 7

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

19. ***Cohen, Y.,** Shoval S., Faccio M., Minto R. (2022) Deploying cobots in collaborative systems: major considerations and productivity analysis, *International Journal of Production Research,* 60 (6), 1815-1831. doi: doi.org/10.1080/00207543.2020.1870758
    Q1: H-153, Impact 10.4
20. ***Cohen, Y.,** Faccio, M., Pilati, F. (2019) Design and management of digital manufacturing and assembly systems in the Industry 4.0 era, *International Journal of Advanced Manufacturing Technology (IJAMT)*, 105, 3565–3577 2019. https://doi.org/10.1007/s00170-019-04595-0
    Q1: H 124, Impact 3.5
21. ***Cohen, Y**., Naseraldin, H., Chaudhuri, A., Pilati, F. (2019) Assembly systems in Industry 4.0 era: a road map to understand Assembly 4.0. *The International Journal of Advanced Manufacturing Technology(IJAMT)*, 105(9), 4037-4054. https://doi.org/10.1007/s00170-019-04203-1
    Q1: H 124, Impact 3.5
22. *Golan M., **Cohen Y**., Singer G. (2020) A framework for operator – workstation interaction in Industry 4.0*, International Journal of Production Research, (IJPR),* 58 (8), 2421-2432, DOI: 10.1080/00207543.2019.1639842, https://doi.org/10.1080/00207543.2019.1639842
    Q1: H-153, Impact 10.4

Papers Below – considered for Nomination to Associate Prof. (Feb. 2019)

23. Avineri E., **Cohen Y.** (2019). Optimal road project portfolio selection problem with local budget constraints, *Journal of Business and Economic Management*, 7(11): 369-375, November 2019, DOI: 10.15413/jbem.2019.0126, ISSN 2315-7755 ©2019 Academia Publishing. https://www.academiapublishing.org/journals/jbem/pdf/2019/Nov/Avineri%20and%20Cohen.pdf.
    Q2: H-41, Impact 2.8
24. Etgar, R., Gelbard, R**., Cohen, Y**. (2018). Feature assignment in multi-release work plan: Accelerating optimization using gene clustering. *Computers & Industrial Engineering(CAIE)*, 118, 123-137.
    Q1: H-136, Impact 7.8
25. Etgar, R., Gelbard, R., **Cohen, Y**. (2019). Presenting the several-release-problem and its cluster-based solution accelartion. *International Journal of Production Research(IJPR),* 57(14), 4413-4434.
    Q1: H-153, Impact 10.4
26. **Cohen Y**., Rozenes S. (2018) Demand biorhythm estimation for setting service capacity, *International Journal of Information Systems and Social Change*, 9 (4), 2018, 30-44.
    New Journal
27. Etgar R., Gelbard R., **Cohen Y.** (2017) Optimizing Version Release Dates of Research and Development Long-Term Processes, *European Journal of Operational Research* (*EJOR*), 259(2), 642-653.
    Q1: H-274, Impact 6.4

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

28. Weintraub E. and Yuval **Cohen Y.** (2016) Security Risk Assessment of Cloud Computing Services in a Networked Environment" *International Journal of Advanced Computer Science and Applications (IJACSA)*, 7(11), 2016, 79-90. **Q3, H-23, Impact 1.2**
29. Weintraub E., **Cohen Y.** (2015) Optimizing User's utility from Cloud Computing Services in a Networked Environment, *International Journal of Advanced Computer Science and Applications (IJACSA)*,. 6, (10), 2015, 153-163. **Q3, H-23, Impact 1.2**
30. Weintraub E., **Cohen Y.** (2015) Cost Optimization of Cloud Computing Services in a Networked Environment, *International Journal of Advanced Computer Science and Applications* (*IJACSA)*, 6 (4), 2015, 148-157. **Q3, H-23, Impact 1.2**
31. Faccio M**., Cohen Y.,** "Editorial", *Assembly Automation (AA)*, 35 (1), 2015. https://doi.org/10.1108/AA-10-2014-084
Q2: H-44, Impact 2.2
32. Ren, C., Barlotti, C., **Cohen, Y.,** Frangipane, B., Garofalo, M., Cozzari, G., Metz, C. (2015) Re-layout of an assembly area: a case study at Bosch Rexroth Oil Control, *Assembly Automation (AA)*, 35 (1), 2015. 94-103. https://doi.org/10.1108/AA-06-2014-052
Q2: H-44, Impact 2.2
33. **Cohen Y**. (2015) A Technique for Integrated Modelling of Manual and Automatic Assembly, *Journal of Manufacturing Technology Management (JMTM*), 24 (3), 2015, 164-181.
Q1: H-76, Impact 9.6
34. Singer G., Golan M., **Cohen Y.** (2014) From product documentation to a 'method prototype' and standard times: a new technique for complex manual assembly, *International Journal of Production Research (IJPR)*, 52 (2), 2014, 507-520.
Q1: H-153, Impact 10.4
35. Shavit T., Benzion U., **Cohen Y.** (2014) Behavioral decision making in the (Q,R) purchasing model: An experimental study, *Managerial and Decision Economics*, 35 (5) 2014, 357–370. Q3, H-55, Impact 1.4 (3 citations)
36. Apartsin Y., MaymonY., **CohenY.,** Singer G. (2013) Nationality and Risk Attitude : Testing Differences and Similarities of Investors' Behavior in Selected Financial Markets, *Global Finance Journal (GFJ)*, 24 (2), 2013, 114-118. **Q2, H-37, Impact 2.4**
37. Bukchin Y., **Cohen Y.** (2013) Minimizing throughput loss in assembly lines due to absenteeism and turnover via work-sharing, *International Journal of Production Research (IJPR)*, 51 (20), 2013, 6140–6151
Q1: H-153, Impact 10.4
38. **Cohen Y.,** Ornoy H., and Keren B. (2013) MBTI Personality Types of Project Managers and their Success: A Field Survey, *Project Management Journal (PMJ), 44, (3), 2013, 78-87.* ***Q1: H-48, Impact 4.6***

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

39. **Cohen Y. (**2013) Assembly line segmentation: determining the number of stations per section*, Journal of Manufacturing Technology Management (JMTM)*, 24 (3), 2013, 397 – 412. **Q1: H-76, Impact 9.6**
40. **Cohen Y.** (2012) Absenteeism as a Major Cause of Bottlenecks in Assembly Lines, *International Journal of Production Research (IJPR)*, 50 (21), 2012, 6072-6080. **Q1: H-153, Impact 10.4**
41. **Cohen Y.,** Sadeh A., Zwikael O. (2012) Finding the Shortest Non-Delay Schedule for a Resource-Constrained Project, *International Journal of Operations Research and Information Systems (IJORIS)*, 3 (4), 2012, 41-58
42. Weintraub E., and **Cohen Y.** (2012) Business IT divide problem pertaining to planning and budgeting activities, *Advances in Computer Science and Engineering*, 8 (2), 2012, 85-109.
43. Keren B., and **Cohen Y.** (2012) Optimising Project Performance: The Triangular Trade-off Optimisation Approach, *International Journal of Engineering Management and Economics (IJEME)*, 3 (1), 2012, 152-170.
44. **Cohen Y.,** Zwikael O., and Sadeh A. (2011) Using a sliding-frame approach for scheduling large and complex IT projects, *International Journal of Information Technology Project Management (IJITPM)*, 2 (4), 2011, 1-13.
45. **Cohen Y.,** A New Modeling and Implementation Technique for Agent-Based Discrete Industrial Automation, *Journal of Communication and Computer*; 8 (1); 2011, 1-7.
46. **Cohen Y.,** Zwikael O. (2010) A New Technique for Estimating the Distribution of a Stochastic Project Makespan, *International Journal of Information Technology Project Management (IJITPM)*, 1(3), July-September 2010, 14-27.
47. Benzion U., **Cohen Y.,** Shavit T. (2010) The newsvendor problem with unknown distribution, *Journal of Operational Research Society (JORS*), 61; 2010; 1022-1031.
48. **Cohen Y.**(2010) Mining the successful binary combinations: Methodology and a simple case study, *International Journal of Computer Science Issues* (*IJCSI*), 7(1), 2010; 1-9.
49. **Cohen Y.,** and Dar-El E. (2010) The sliding frame - extending the concept to various assembly line balancing problems, *International Journal of Manufacturing Technology and Management* (*IJMTM*); 20 (1/2/3/4); 2010; 4-24. (Q2 at the time of publication)
50. **Cohen Y.,** Wang M. E., and Bidanda B. (2009) Automatic translation of process level Petri-net to a ladder diagram, *Journal of Communication and Computer*; 6 (11); 2009, 58-64.
51. **Cohen Y.,** and Keren B.; Trailer to door assignment in a synchronous cross-dock operation, *International Journal of Logistics Systems and Management* (*IJLSM*); 5, (5); 2009; 574-590. (Q2 at the time of publication)

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

52. **Cohen Y.** and Zwikael O.; Modelling and Scheduling Projects Using Petri Networks; *International Journal of Project Organization and Management* (*IJPOM*); 1 (2); 2009; 221-233.

53. Prakash, A., Khilwani, N., Tiwari, M.K., **Cohen, Y.;** Modified immune algorithm for job selection and operation allocation problem in flexible manufacturing systems, *Advances in Engineering Software*, 39 (3), 2008, 219 – 232.

54. Benzion U**., Cohen Y.,** Peled R., and Shavit T.; Decision-making and the newsvendor problem: an experimental study, *Journal of the Operational Research Society* (*JORS*); 59 (9); 2008; 1281-1287.

55. **Cohen Y.,** Dar-El E., Vitner G., and Sarin S.; Optimal layout and work allocation in batch Assembly under learning effect, *International Journal for Intelligent Systems Technologies and Applications* (*IJISTA*); 4 (1-2); 2008; 188-207.

56. **Cohen Y.,** Dar-El E., Vitner G., and Sarin S.; Work allocation to stations in a line with unlimited buffers for three general learning patterns, *International Journal for Intelligent Systems Technologies and Applications* (*IJISTA*); 4 (1-2); 2008; 123-140.

57. **Cohen Y.,** Vitner G., and Sarin S.; Work allocation to stations with varying learning slopes and without buffers, *European Journal of Operational Research* (*EJOR*); 184 (2); (January 2008); 797-801.

58. **Cohen Y.,** Sadeh A., and Ben-David A.; A new approach for decision rule extraction from binary data, *Journal of Engineering, Computing and Architecture* (*ISSN 1934-7197*); 1(2); 2007; 1-10.

59. **Cohen Y.,** and Sadeh A.; A new approach for constructing and generating AOA networks, *Journal of Engineering, Computing and Architecture* (*ISSN 1934-7197*); 1 (1); 2006; 1-15.

60. Zwikael O., **Cohen Y**., And Sadeh A.; Non-Delay scheduling as a managerial approach for managing projects, *International Journal of Project Management* (*IJPM*); 24; 2006; 330-336.

61. **Cohen Y.,** Vitner G., and Sarin S.; Optimal allocation of work in assembly lines for lots with homogeneous learning, *European Journal of Operational Research* (*EJOR*), *Special issue on line balancing*; 168 (3); 2006; 922-931.

62. **Cohen Y.** and Dar-El E. M.; Optimizing the number of stations in assembly lines under learning, *Production Planning and Control*; 9 (3); 1998; 230-240.

63. **Cohen Y.,** Bidanda B., and Billo E. R.; Accelerating the generation of work-measurement standards through automatic speech recognition: A laboratory study, *International Journal of Production Research* (*IJPR*); 36 (10); 1998; 2701-2715.

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

64. Billo E. R., Bidanda B., **Cohen Y.,** Fei C., and Petri K.; Performance standards and testing of two-dimensional bar-code systems for overhead scanning, *Journal of Manufacturing Systems* (*JOMS*); 15 (5); 1996; 305-315.

E-2. Articles or Chapters in Scientific Books Published

"**"used below to mark contributions since job tenure acceptance (2024)

"*"used below to mark contributions since last appointment as Associate Professor

1. ** Reis, J., Marques, P.A., Marques, P.C**., Cohen, Y**., Melão, N. (2025). Greening the European Defense Industry: Practical Insights from the EU's Defense Technological and Industrial Base (EDTIB). In: Gonçalves dos Reis, J.C., Mendonça Freires, F.G., Vieira Junior, M., Garcia Barbastefano, R., Oliveira Sant'Anna, Â.M. (eds) Industrial Engineering and Operations Management. IJCIEOM 2024. Springer Series in Mathematics & Statistics, vol 483. Springer, Cham. https://doi.org/10.1007/978-3-031-80785-5_1
2. *Reis J., Amorim M., **Cohen Y.,** Rodrigues M. (2020) Artificial Intelligence in Service Delivery Systems: A Systematic Literature Review. In: Rocha Á., Adeli H., Reis L., Costanzo S., Orovic I., Moreira F. (eds) Trends and Innovations in Information Systems and Technologies. Advances in Intelligent Systems and Computing, vol 1159. Springer, Cham, pp 222-233.
3. *Reis J., Amorim M., Melão N., **Cohen Y.,** Rodrigues M. (2020) Digitalization: A Literature Review and Research Agenda. In: Anisic Z., Lalic B., Gracanin D. (eds) Proceedings on 25th International Joint Conference on Industrial Engineering and Operations Management - IJCIEOM. IJCIEOM 2019. Lecture Notes on Multidisciplinary Industrial Engineering. Springer, Cham, pp 443-456. https://link.springer.com/chapter/10.1007%2F978-3-030-43616-2_47
4. ***Cohen, Y.,** Gelbard, R., & Amorim, M. (2019). When to Stop? A New Stop Criterion for Combinatorial Optimization Search Techniques. In Engineering Digital Transformation (pp. 211-218). Springer, Cham. (https://link.springer.com/chapter/10.1007/978-3-319-96005-0_26)

Chapters Below – considered for Nomination to Associate Prof. (Feb. 2019)

5. Weintraub, E., & **Cohen, Y.** (2018). Optimizing Cloud Computing Costs of Services for Consumers. In: *Encyclopedia of Information Science and Technology, Fourth Edition* (pp. 1627-1637). IGI Global. (https://www.igi-global.com/chapter/optimizing-cloud-computing-costs-of-services-for-consumers/217284)
6. **Cohen Y.,** Rozenes S., (2017).Value Co-Creation Approach for Improving Performance of Outsourced Projects, chapter 9, 172-183. In: Cohen Y., Rozenes S., (editors), *Handbook of Research on Strategic Alliances and Value Co-Creation in the Service Industry*, Harrisburg: PA, IGI Global..
7. **Cohen Y.,** Gonen S., Golan M., & Goren-Bar D., Chapter 8: Automating the transformation from a prototype to a method of assembly, *Innovations and*

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

Advances in Computer Information Systems, Sciences, and Engineering, Part I, Springer, 2013, 99-106.

8. **Cohen, Y.,** Sadeh, A., & Zwikael, O. (2013). Scheduling Large and Complex IT Projects Using Sliding-Frame Approach. In Wang, J. (Ed.), *Perspectives and Techniques for Improving Information Technology Project Management*, IGI Global Chapter 12, 173-185.
   DOI: https://www.igi-global.com/gateway/chapter/73234
9. **Cohen, Y.,** Singer, G., Golan, M., & Goren-Bar, D. (2013). Automating the Transformation from a Prototype to a Method of Assembly. In Innovations and Advances in Computer, Information, Systems Sciences, and Engineering (pp. 99-106). Springer, New York, NY.
10. **Cohen Y.,** & Goren-Bar D., (2013) New Automated Assembly Model Based on Automated Route Card Scheme, in: Elleithy K., Sobh T., Emerging Trends in Computing, Informatics, Systems Science and Engineering, Springer 2013, 95-102.
11. **Cohen Y.,** & Zwikael O.; A New Technique for Estimating the Distribution of a Stochastic Project Makespan, in Wang J., Project Management Techniques and Innovations in Information Technology, IGI Global, 33-47, 2012.
12. **Cohen Y.,** Wang M., and Bidanda B.; Transition Network for Automation Modeling: A Case Study, in: Elleithy K., Sobh T., Iskander M. Kapila V. Karim M., Mahmood A. (editors), *Technological Developments in Networking, Education and Automation;* Springer; 2010; 187-192.
13. **Cohen Y.,** Wang M., and Bidanda B.; Automatic translation of a process level Petri-net to a ladder-diagram, in: Sobh T., Elleithy K., Mahmood A., Karim M. (editors), *Advanced Techniques in computing Sciences and Software Engineering*; Springer; 2010; 25-31.
14. **Cohen Y.;** A modeling technique for execution and simulation of discrete automation, , in: Sobh T., Elleithy K., Mahmood A., Karim M. (editors), *Novel algorithms and techniques in telecommunications, automation and industrial electronics*; Springer; 2008; 273-278.
15. **Cohen Y.,** Wang M., and Bidanda B.; Modeling and implementation of agent-based discrete industrial automation, in: Sobh T., Elleithy K., Mahmood A., Karim M. (editors), Innovative algorithms and techniques in automation, industrial electronics and telecommunications; Springer; 2007; 535-541.

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

F. Refereed Articles in Conference Proceedings

"**" used below to mark contributions since job tenure acceptance (2024)

"*" used below to mark contributions since last appointment as Associate Professor

F.1. Published in Refereed Proceedings Conference Articles

1. ** (H=76) Ben-Gal, H., & **Cohen, Y.** (2025). Exploring the Skills Revolution: Strategic Upskilling and Reskilling Human Operators for Advanced Manufacturing Ecosystems, 15th IFAC Workshop on Intelligent Manufacturing Systems (IMS-2025), Koszalin, Poland.
2. ** (H=76) **Cohen, Y.** (2025). Generative Assembly Line Design: Optimizing Task assignment, Equipment Selection and Balancing **,** 15th IFAC Workshop on Intelligent Manufacturing Systems (IMS-2025), Koszalin, Poland.
3. ** (H=76) **Cohen Y.** & DeLorme X. (2025) A New Digital Twins Technique for Minimizing Setup Times in Reconfigurable Stations of a Mixed Model Flow Lines, 11th IFAC Conference on Manufacturing Modelling, Management and Control – IFAC (MIM2025), Trondheim, Norway.
4. ** (H=76) **Cohen, Y.,** & Aperstein, Y. (2024). Generative Shopfloor Layout Design: Challenges and Proposed Modelling Approach. IFAC-PapersOnLine, 58(19), 748-753.
5. ** (H=76) **Cohen, Y.,** & Ben-Gal, H. (2024). Digital, Technological and AI Skills for Smart Production Work Environment. IFAC-PapersOnLine, 58(19), 545-550.
6. * (H=76) Granata I., Faccio M., **Cohen Y.** (2023) Multi-Objective Multi-Resource Task Allocation for Collaborative Robots Systems. *IFAC-PapersOnLine*, 56 (2), pp. 5643-5648. DOI: 10.1016/j.ifacol.2023.10.483, (https://www.sciencedirect.com/science/article/pii/S2405896323008509)
7. *(H=76) Haluts Ben-gal H., **Cohen Y.** (2022) The "New Fit": Skills and Competencies for The Future of Work. *IFAC-PapersOnLine*, 55(2) 511-515. DOI: https://www.sciencedirect.com/science/article/pii/S2405896322002464 (*Proceedings of the 14th IFAC workshop on Intelligent Manufacturing Systems,* March 29-30, 2022.)
8. ***Cohen Y**., Reis J., Pilati F. (2021) "An improved penalty heuristic for the generalized assignment and the TSP", *The 34th Conference of the European Chapter on Combinatorial Optimization – ECCO 2021*, Madrid, Spain.
9. *(H=76) **Cohen, Y.,** Nabrzyski, J., & Taylor, I. (2021). Framework for Block-Chain Deployment in Assembly of an Air-Craft or a Space Craft. *IFAC-PapersOnLine,* 54(1), 988-992. https://www.sciencedirect.com/science/article/pii/S2405896321009691 (*Proceedings of the 17th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2021). Budapest, Hungary.)*
10. *(H=76) **Cohen, Y.,** Pilati, F., & Faccio, M. (2021). Digitization of Assembly Line for Complex Products–The Digital Nursery of Workpiece Digital Twins.

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

IFAC-PapersOnLine, 54(1), 158-162. DOI: https://www.sciencedirect.com/science/article/pii/S2405896321007229 *(Proceedings of the 17th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2021). Budapest, Hungary.)*

11. *(H=76) Pilati, F., Faccio, M., & **Cohen, Y.** (2021). Absenteeism and Turnover as Motivation Factors for Segmenting Assembly Lines. *IFAC-PapersOnLine*, 54(1), 613-616. https://www.sciencedirect.com/science/article/pii/S2405896321009423 *(Proceedings of the 17th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2021). Budapest, Hungary.)*

12. *M. Rodrigues, J. Reis, M. Amorim, **Y. Cohen** (2020) "Exploring the importance of E-Professionalism competence in the education and training of new professionals", 13th annual *International Conference of Education, Research and Innovation, ICERI2020* Proceedings, p. 9485. https://library.iated.org/view/RODRIGUES2020EXP

13. *(H=76) **Cohen** Y. and Shoval S. (2020). A New Cobot Deployment Strategy in Manual Assembly Stations: Countering the Impact of Absenteeism. *IFAC-PapersOnLine*,53(2), 10275-10278. *(21st IFAC World Congress (Virtual) Berlin, Germany, July 12-17, 2020),* https://www.sciencedirect.com/science/article/pii/S2405896320335230

14. ***Cohen, Y.,** Reis, J., Amorim, M. (2020). Empirical Analysis of Call Center Load & Service Level for Shift Planning. In: Nóvoa, H., Drăgoicea, M., Kühl, N. (eds) Exploring Service Science. IESS 2020. Lecture Notes in Business Information Processing, vol 377. (pp. 79-91). Springer, Cham. (*Proceedings of the International Conference on Exploring Service Science, IESS 2020, Porto: Portugal:. 80-91, Springer, February 2020).* https://doi.org/10.1007/978-3-030-38724-2_6

15. *Reis, J., Amorim, M., Melão, N., **Cohen, Y.**, & Rodrigues, M. (2019, July). Digitalization: A literature review and research agenda. In International Joint conference on industrial engineering and operations management (pp. 443-456). Springer, Cham. https://link.springer.com/chapter/10.1007/978-3-030-43616-2_47

16. *(H=76) **Cohen, Y.**, Faccio, M., & Elaluf, A. (2019). Hierarchy of smart awareness in assembly 4.0 systems. IFAC-PapersOnLine, 52 (13), 1508-1512. https://www.sciencedirect.com/science/article/pii/S2405896319313941 (*9th IFAC Conference on Manufacturing Modelling, Management and Control MIM 2019: Berlin, Germany, 28–30 August 2019)*

17. *(H=76) **Cohen, Y.,** Shoval, S., & Faccio, M. (2019). Strategic View on Cobot Deployment in Assembly 4.0 Systems. IFAC-PapersOnLine, 52(13), 1519-1524. https://www.sciencedirect.com/science/article/pii/S2405896319313965

(*9th IFAC Conference on Manufacturing Modelling, Management and Control MIM 2019: Berlin, Germany, 28–30 August 2019)*

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

18. *(H=76) Amorim, M., **Cohen, Y.,** Reis, J., & Rodrigues, M. (2019). Exploring Opportunities for Artificial Emotional Intelligence in Service Production Systems. IFAC-PapersOnLine, 52(13), 1145-1149. https://www.sciencedirect.com/science/article/pii/S240589631931328X (*9th IFAC Conference on Manufacturing Modelling, Management and Control MIM 2019: Berlin, Germany, 28–30 August 2019)*

19. *(H=76) **Cohen, Y.,** Faccio, M., & Elaluf, A. (2019). Hierarchy of smart awareness in assembly 4.0 systems. IFAC-PapersOnLine, 52(13), 1508-1512. *(9th IFAC/IFIP/IFORS/IISE/INFORMS Conference, Manufacturing Modelling, Management and Control (MIM 2019), Berlin Germany, August 27-30, 2019.)* *https://www.sciencedirect.com/science/article/pii/S2405896319313941*

20. *(H=76) **Cohen, Y.,** Shoval, S., & Faccio, M. (2019). Strategic view on cobot deployment in assembly 4.0 systems. IFAC-PapersOnLine, 52(13), 1519-1524. (*9th IFAC/IFIP/IFORS/IISE/INFORMS Conference, Manufacturing Modelling, Management and Control (MIM 2019), Berlin Germany, August 27-30, 2019.)* https://www.sciencedirect.com/science/article/pii/S2405896319313965

21. *(H=76) **Cohen, Y**., Gelbard, R., & Amorim, M. (2019). When to Stop? A New Stop Criterion for Combinatorial Optimization Search Techniques. In Engineering Digital Transformation (pp. 211-218). Springer, Cham. *(ECCO XXXI - CO 2018 Joint Conference, Fribourg, Switzerland. June 2018).* https://doi.org/10.1007/978-3-319-96005-0_26

=-=

Papaers below considered for the nomination to Assistant Professor

22. **Cohen, Y.,** Golan, M., Singer, G., & Faccio, M. (2018). Workstation–Operator Interaction in 4.0 Era: WOI 4.0. IFAC-PapersOnLine, 51(11), 399-404. *(16th IFAC Symposium on Information Control Problems in Manufacturing (INCOM-2018); Bergamo Italy)* *https://www.sciencedirect.com/science/article/pii/S2405896318314514*

23. Weintraub, E., **& Cohen, Y. (**2018). Defining network exposure metrics in security risk scoring models. Proceedings as special issue in: International Journal of Advanced Computer Science and Applications, 9(4). 399-404. *(17th Annual Security Conference Securing the interconnected world, Las-Vegas: USA, March 26-28, 2018.)* https://www.proquest.com/openview/3d751d33534ab5032b7565e9c92b1468/1.pdf?pq-origsite=gscholar&cbl=5444811

24. **Cohen, Y.,** Faccio, M., Galizia, F. G., Mora, C., & Pilati, F. (2017). Assembly system configuration through Industry 4.0 principles: the expected change in the actual paradigms. IFAC-PapersOnLine, 50(1), 14958-14963. *(20th IFAC World Congress, Toulouse: France. July 2017. IFAC PapersOnLine, 50-1 (2017) pp. 14958–14963.)* *https://www.sciencedirect.com/science/article/pii/S2405896317334754*

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל' : 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

25. Zagorie, R., Rozenes, S., & **Cohen, Y.** (2017, May). Customer satisfaction from inner-city services: a case study. In International Conference on Exploring Services Science (pp. 409-420) Rome: Italy,. Springer, Cham. *https://link.springer.com/chapter/10.1007/978-3-319-56925-3_32*

26. Etgar R., Gelbard R., **Cohen Y.** (2016) Project Scope Partitioning by Clustering Features into Releases of Long R&D Projects, Procedia Computer Science, Volume 100, , Pages 1235-1241, 2016. https://www.sciencedirect.com/science/article/pii/S1877050916323225

27. **Cohen, Y.,** Rozenes, S., Perel, E., & Golan, M. (2016). Common Service Demand Pattern for Service Capacity Planning. In *XXII* International Joint Conference-CIOICIEOM-IIE-AIM (IJC 2016). San Sebastián, Spain, July 13 (Vol. 15, p. 2016).

28. Cohen, Y., Rozenes, S., & Faccio, M. (2016) Modelling a manager's work as a service activity. Bucharest: Romania, May 2016. In: *Proceedings of the International Conference on Exploring Service Science, IESS 2016,* Heidelberg: Springer. 384-391, 2016.

29. **Cohen Y.** Rozenes S. (2015) Integrating Strategic Considerations and Value Co-Creation in Project Management, *XXI International Conference on Industrial Engineering and Operations Management, International IIE Conference 2015*, Aveiro, Portugal. July 6-8, 2015.

30. **Cohen Y.** Etgar R. Gelbard R., Managing Continuing Projects: Optimizing the Version-Release Policy, *XXI International Conference on Industrial Engineering and Operations Management, International IIE Conference 2015*, Aveiro, Portugal. July 6-8, 2015.

31. Weintraub E., **Cohen Y.,** Continuous Monitoring System Based on Systems' Environment, *Proceedings of the Conference on Digital Forensics, Security and Law*, Daytona Beach, Florida, USA, May 2015.

32. **Cohen Y.,** Gelbard R., Etgar R., Scheduling Continuous Projects with Version Releases, *Proceedings of the 24th Industrial & Systems Engineering Research Conference (ISERC)*; Nashville, USA; May 2015.

33. Cohen Y., Rozenes S., Zwikael O., Dynamic Strategic Planning in Project Management: Optimizing Project's Value, *Proceedings of the 24th Industrial & Systems Engineering Research Conference (ISERC)*; Nashville, USA; May 2015.

34. **Cohen Y.,** Apartsin Y., Service Oriented Acquisition Models for Serving Products with Short Expiration Period Series: Lecture Notes in Business Information Processing, Vol. 201, Springer. In: Sampaio da Nóvoa, Henriqueta, Dragoicea, Monica (Eds.), *Proceedings, Exploring Services Science, 6th International Conference, IESS 2015*, Porto, Portugal, February 4-6, 2015.

35. Meltser A**. Cohen Y.,** Avigal M., Conclusions from Comparing Genetic Algorithms for U-shaped Assembly Line Balancing, *Proceedings of the 23th Industrial Engineering Research Conference (ISERC)*; Montreal, Canada; May 2014.

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

36. **Cohen Y**., Etgar R., Gelbard R., Optimizing Planning and Scheduling Product/Software Releases using MPSO, *Proceedings of the 23th Industrial Engineering Research Conference (ISERC)*; Montreal, Canada; May 2014.

37. Cohen Y., Faccio M., Absenteeism/Turnover Analysis in Mixed-Model Assembly Lines, *Proceedings of the 22nd International Conference on Production Research (ICPR 22)*, Iguassu Falls, Brazil, July 2013.

38. **Cohen Y.,** Bukchin Y., Optimizing Work-Sharing Assignments for Replacements of Absentees in Assembly Lines, *Proceedings of the 22nd International Conference on Production Research (ICPR 22)*, Iguassu Falls, Brazil, July 2013.

39. **Cohen Y.,** Span of Control in Long Assembly Lines – Segmenting the Line, *Proceedings of the 22nd International Conference on Production Research (ICPR 22)*, Iguassu Falls, Brazil, July 2013.

40. **Cohen Y.,** On Capacity Planning for Multi-Stage Multi Model Production Lines with Parallel Machines, *Proceedings of the IAFC Conference on Manufacturing Modeling and Control (MIM)*, Saint Petersburg, Russia, June, 2013.

41. **Cohen, Y.,** & Delorme, X. (2012). Column Generation Approach for Planning the Operation of Reconfigurable Production Line Segments with Bideractional Conveyance System. IFAC Proceedings Volumes, 45(6), 432-437. (, 14th IFAC Symposium on Information Control Problems in Manufacturing (INCOM-2012), Bucharest, Romania, May, 2012.) https://www.sciencedirect.com/science/article/pii/S1474667016331871

42. **Cohen Y.,** Singer G., Golan M., Goren-Bar D. (2011) Automating the Transformation From a Prototype to a Method of Assembly, *Proceeding of the International Conference on Industrial Electronics, Technology and Automation* (*IETA 11*), in IEEE's: *Proceedings of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering* (*CISSE*); December 2011. https://link.springer.com/chapter/10.1007/978-1-4614-3535-8_8

43. **Cohen Y.** (2011) A route card modeling technique for complex assembly, *Proceedings of the 21st International Conference on Production Research (ICPR 21)*, Stuttgart, Germany, July 2011.

44. **Cohen Y.,** Zwikael O., Sadeh A. (2011) Optimal Project Subsets Selection in Polynomial Time, *Proceedings of the 20th Industrial Engineering Research Conference (IERC); Reno, NV, USA; May 2011*.

45. **Cohen Y.** (2011) Assembly line design with shared machines, *Proceedings of the 20th Industrial Engineering Research Conference (IERC)*; Reno, NV, USA; May 2011.

46. **Cohen Y.** Goren-Bar D., New Automated Assembly Model Based On Automated Route Card Scheme, *Proceeding of the International Conference on Industrial Electronics, Technology and Automation* (*IETA 10*), in IEEE's:

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

Proceedings of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (*CISSE*); December 2010.

47. **Cohen Y.;** The Impact of Absenteeism and Turnover in Assembly Lines and Strategies for Overcoming Them, *Proceedings of the Manufacturing and Service Operations Management Conference (MSOM 2010)*, Haifa, Israel; June 2010.

48. **Cohen Y.;** A New Technique for Solving the Assembly Line Design Problem, *Proceedings of the 19th Industrial Engineering Research Conference* (*IERC*); Cancun, Mexico; May 2010.

49. **Cohen Y.;** Optimizing Purchase Mix of Bundles and Separate Products in the Supply-Chain, *Proceedings of the 19th Industrial Engineering Research Conference* (*IERC*); Cancun, Mexico; May 2010.

50. **Cohen Y.;** Planning for Assembly Lines Absenteeism and Turnover, *Proceedings of the 19th Industrial Engineering Research Conference* (*IERC*); Cancun, Mexico; May 2010.

F.2. Published conference abstracts

1) **Cohen Y.,** Aperstein Y., Reis J. (2023) A Framework for Integrating Artificial Intelligence in Digital Twins of Manufacturing Systems. *(Proceedings of the IFAC world congress 2023, July 9-14, 2023).*
2) Ben-Zeev T., Elaluf A**., Cohen Y.** (2022) Optimizing Empty Containers Repositioning Problem by Using NFT technology and block chain smart contract, IJCIEOM – 28th International Joint Conference on Industrial Engineering and Operations Management, Mexico-city, Mexico, July 17-20, 2022.
3) Sbaragli, A., Pilati, F., Regattieri, A., & **Cohen, Y.** (2021, June). Real Time Locating System for a Learning Cross-Docking Warehouse. In Proceedings of the Conference on Learning Factories (CLF).
4) **Cohen Y.,** Amorim M., Reis J., Rodrigues M., Frontline Employees Preferences for Interfacing Service 4.0 Artificial Emotional Intelligence Computerized Agent , 25th IJCIEOM - International Joint Conference on Industrial Engineering and Operations Management, Novi Sad, Serbia, July 15-17, 2019
5) **Cohen Y.,** Amorim M., Reis J., Rodrigues M., Enabling Digital Technologies for Service 4.0: A Literature Review Leading to Operator Assistance Framework, 25th IJCIEOM - International Joint Conference on Industrial Engineering and Operations Management, Novi Sad, Serbia, July 15-17, 2019
6) **Cohen Y.,** Amorim M., The impact of task time randomness on optimizing a multi-release planning, and assembly line balancing, 25th IJCIEOM - International Joint Conference on Industrial Engineering and Operations Management, (IJC2018), Lisbon: Portugal. July 2018.

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

7) **Cohen Y.,** Retailer's Optimal Purchase Mix of Bundles and Separate Products in a Supply-Chain of Single Period Items, 14th International Conference on Industrial Logistics (ICIL 2018), Beer-Sheva, May 15-17, 2018.
8) Etgar R., Gelbard R., **Cohen Y.,** Scheduling on-going research and development projects, Proceedings of the 14th International Conference on Industrial Logistics (ICIL 2018), Beer-Sheva, May 15-17, 2018. (ISBN 978-965-572-573-5)
9) Avineri E., **Cohen Y.** Optimal road project portfolio selection under limited local authorities budgets in polynomial time, Proceedings of the 14th International Conference on Industrial Logistics (ICIL 2018), Beer-Sheva, May 15-17, 2018. (ISBN 978-965-572-573-5)
10) **Cohen Y.** Gelbard R. Amorim M., When to Stop? A New Stop Criterion for Combinatorial Optimization Search Techniques" The International Joint Conference ICIEOM-ADINGOR-IISE-AIM-ASEM (IJC2017), Valencia: Spain. July 2017.
11) **Cohen Y.,** Avineri E., Hoffman D., Framework for Personal Rapid Transit Feasibility studies, Production and Operations Management Society International Conference (POMS International conference), Tel-Aviv June 27 – 29, 2017.
12) **Cohen Y.,** Formulating Polynomial Time Solutions to Certain Combinatorial Problems, Annual Conference of the Institute of Industrial and Systems Engineering (IISE). Pittsburgh PA: USA. May 2017.
13) **Cohen Y.,** Rozenes S., Efrat P., Maya G., Common Service Demand Pattern for Service Capacity Planning, Annual Conference of the Institute of Industrial and Systems Engineering (IISE). Pittsburgh PA: USA. May 2017.

G. Entries in Encyclopedias

Weintraub E., **Cohen Y.** (2017) Optimizing Cloud Computing Costs of Services for Consumers, In: Khosrow-Pour M., *Encyclopedia of Information Science and Technology*. 4th edition, 2017. 1627-1637.

Refereed

H. Other Scientific Publications: N/A

I. Other Publications: N/A

J. Other Publications: N/A

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

K. Submitted Publications: N/A

L. Summary of my Activities and Future Plans

My research is focused on developing methods, techniques and digital tools for the improvement of industrial systems performance (mainly shopfloors, assembly-lines). Recently these methods and techniques are at the intersection of: Intelligent and advanced Manufacturing, Industry 4.0, Operations management, and Logistics. My major research area in recent years focuses on the domain of Assembly 4.0 and its sub-fields as summarized below.

Assembly 4.0

Assembly 4.0 reflects the development in assembly-systems in the Industry 4.0 era (I was a pioneer in using this term). Since main part of my research is related to Assembly 4.0, and since Assembly 4.0 is multi-faceted discipline, Figure 1 describes my recent research in the Assembly 4.0 field and its sub-categories. I published either journal papers or a conference paper in in each of the areas represented in this figure, as described below.

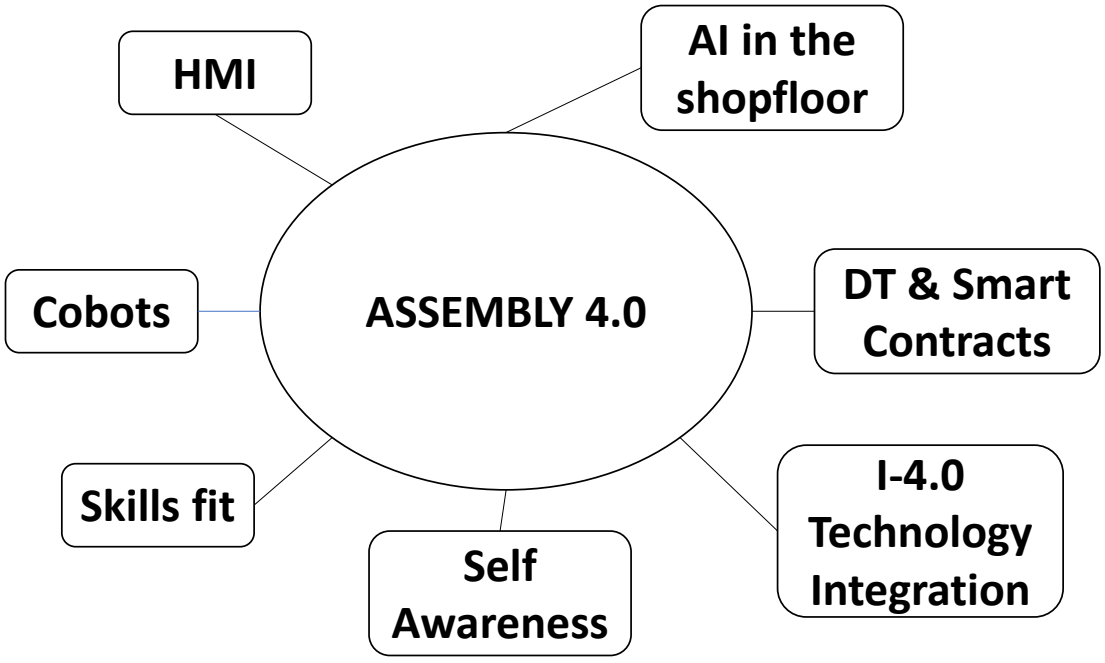

Figure 1. Yuval Cohen's Assembly 4.0 research and its sub-fields

Please see next page - for more detailed description

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

General Assembly 4.0 (A4) research

In 2017 I presented in a conference my first paper [1] related to Assembly 4.0: explaining the characteristics of Industry 4.0 in assembly lines. Later, in [2] I explain what is new in the design and management of digital manufacturing and assembly systems in the Industry 4.0 era. In [3] I provide a roadmap for understanding Assembly 4.0. As guest editor of [4] I took part in writing the editorial related to intelligent manufacturing in Industry 4.0 settings.

Artificial Intelligence in the shopfloor in Assembly 4.0

Since [4] deals with intelligent manufacturing, it is natural and obvious that the editorial in [4] deals also with artificial intelligence (AI). Machine learning (ML) in Industry 4.0 settings was my first AI related research and my first AI paper [5]. This paper [5] describes describe a framework for smart control using ML modeling for processes with closed-loop control. In a related paper [6], I extended [5] to recurrent ML, and other AI techniques (such as Case-Based Reasoning (CBR)). In addition [7] deals with other facets of artificial intelligence (mainly conversational) such as Natural Language Processing (NLP) and speech recognition (SR). Finally, [8] describes developing an autonomous system (in High-tech Defense Industries).

Digital Twins and Smart Contracts in Assembly 4.0

The cyber physical systems vision includes digital twin (DT) for each physical part, sub-assembly and complete product. In [9] I describe a framework that includes a massive DT for the whole assembly-line, a DT for each workstation, and a DT for each product. The product DT is gradually filled with assembly documentation as the assembly progresses. This framework is used in [10] wich develops an automated monitoring mechanism using smart contracts.

Technology integration in Industry 4.0

A significant part of [2] is devoted to various Industry 4.0 enabling technologies and their integration. A proposed smart process controller framework for Industry 4.0 settings is presented in [6] and more detailed machine learning usage is presented in [5]. Technology integration in Industry 4.0 is also described in [11]. A literature review of “Enabling Digital Technologies” is presented in [12] and some other technologies are mentioned by [13].

Self-awareness of systems in Assembly 4.0

Assembly systems maintenance could be significantly improved using the concept of self-awareness. In [14, and 15] a hierarchy of Smart Awareness in Assembly 4.0 is presented, along with analysis of the characteristics of self-awareness of sensors, parts, sub-assemblies and completed products.

A4 - Skills fit in Industry 4.0

I analyzed the skills necessary for Industry 4.0 settings and found a new type of skills presented in [16]. Also, an analysis programming, digitalization and AI skills required for Industry 4.0 and 5.0 shopfloors, is described in [17].

Cobots (collaborative robots) in Assembly 4.0

ע״ר 580260164
רח׳ מבצע קדש 38 תל-אביב, 6998812 טל׳: 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

In 2019 I described in [18] a strategic decision model on when and where should cobot deployment take place in Assembly 4.0 Systems. This model was extended later [19]. Finally, a more comprehensive study on the decision for deploying cobots was published in [20]. This study includes detailed productivity analysis and many additional considerations for deploying cobots in assembly systems:

Human machine interaction & Artificial emotional Intelligence in Ass. 4.0

I published several conference and journal papers related to Human Machine Interaction (HMI). In [7] conversational systems are examined for finding synergetic opportunities for integrating AI in these systems. In [12] an operator assistive system is examined. In [21] I present a future standard interaction system for workstation–operator operation. This study was further extended in [22].
In 2019 I explored opportunities for integrating artificial emotional intelligence in HMI [23]. This was combined with a study on the operators' preferences to yield [24].

References

[1] Cohen, Y., Faccio, M., Galizia, F. G., Mora, C., & Pilati, F. (2017). Assembly system configuration through Industry 4.0 principles: the expected change in the actual paradigms. *IFAC-PapersOnLine, 50(1), 14958-14963. (20th IFAC World Congress, Toulouse: France. July 2017. IFAC PapersOnLine, 50-1 (2017) pp. 14958–14963.)*

[2] Cohen, Y., Faccio, M., Pilati, F. (**2019**) Design and management of digital manufacturing and assembly systems in the Industry 4.0 era, *International Journal of Advanced Manufacturing Technology (IJAMT)*, 105, 3565–3577 2019. https://doi.org/10.1007/s00170-019-04595-0
Q1: H 124, Impact 3.5

[3] Cohen, Y., Naseraldin, H., Chaudhuri, A., & Pilati, F. (**2019**). Assembly systems in Industry 4.0 era: a road map to understand Assembly 4.0. *The International Journal of Advanced Manufacturing Technology(IJAMT)*, 105(9), 4037-4054. https://doi.org/10.1007/s00170-019-04203-1
Q1: H 124, Impact 3.5

[4] Barari, A., de Sales Guerra Tsuzuki, M., **Cohen, Y**. Macchi M. (**2021**) Editorial: intelligent manufacturing systems towards industry 4.0 era. *Journal of Intelligent Manufacturing* 32(7), 1793-1796. doi: 10.1007/s10845-021-01769-0; https://doi.org/10.1007/s10845-021-01769-0
Q1: H-85, Impact 7.5

[5] Singer, G., **Cohen, Y.** (2021) A framework for smart control using machine-learning modeling for processes with closed-loop control in Industry 4.0, *Engineering Applications of Artificial Intelligence*, Volume 102 ,2021, doi: https://doi.org/10.1016/j.engappai.2021.104236,
Q1: H-104, Impact 6.78

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

[6] Cohen, Y., Singer, G. (**2021**) A smart process controller framework for Industry 4.0 settings. *Journal of Intelligent Manufacturing* (JIMS), 32(7), 1975-1995. https://doi.org/10.1007/s10845-021-01748-5

Q1: H-85, Impact 7

[7] Rozenes, S. **Cohen Y.,** (2022) Artificial Intelligence Synergetic Opportunities in Services: Conversational Systems Perspective, *Applied Sciences*, 12,16, 1-18, 8363. https://www.mdpi.com/2076-3417/12/16/8363/pdf,

Q2: Impact 2.8, Scopus Citescore 3.7

[8] Reis,J., **Cohen, Y.,** Melão, N., Costa, J., and Jorge, D. (2021) High-tech Defense Industries: Developing Autonomous Intelligent Systems, *Applied Sciences*, (Special Issue: Smart Services: Artificial Intelligence in Service Systems). pp: 1-13.Q2: H-52, Impact 3.0

[9] Cohen Y., Pilati F., Faccio M. (**2021**) "Digitization of Assembly Line for Complex Products – The Digital Nursery of Workpiece Digital Twins", 17th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2021), Budapest, Hungary.

[10] Cohen Y., Nabrzyski J., Taylor I. (**2021**) " Framework for Block-Chain Deployment in Assembly of an Air-Craft or a Space-Craft ", 17th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2021). Budapest, Hungary.

[11] Cohen, Y., Naseraldin, H., Chaudhuri, A., & Pilati, F. (**2019**). Assembly systems in Industry 4.0 era: a road map to understand Assembly 4.0. *The International Journal of Advanced Manufacturing Technology(IJAMT)*, 105(9), 4037-4054. https://doi.org/10.1007/s00170-019-04203-1

Q1: H 124, Impact 3.5

[12] Cohen Y., Amorim M., Reis J., Rodrigues M., Enabling Digital Technologies for Service 4.0: A Literature Review Leading to Operator Assistance Framework, 25th IJCIEOM - International Joint Conference on Industrial Engineering and Operations Management, Novi Sad, Serbia, July 15-17, **2019**

[13] Marlene Amorim, **Yuval Cohen**, Joao Reis, Mario Rodrigues, (December 2019). Exploring Opportunities for Artificial Emotional Intelligence in Service Production Sytems, IFAC PapersOnLine 52-13, 1145-1149.

[14] Cohen, Y., Faccio, M., & Elaluf, A. (2019). Hierarchy of Smart Awareness in Assembly 4.0 Systems. IFAC-PapersOnLine, 52(13), 1508-1512.

[15] Cohen Y., Faccio M., Elaluf A., Hierarchy of Smart Awareness in Assembly 4.0 Systems, 9th IFAC/IFIP/IFORS/IISE/INFORMS Conference, Manufacturing Modelling, Management and Control (MIM 2019), Berlin Germany, August 27-30, 2019.

[16] Hila H.B., **Cohen Y**. (2022) The "New Fit": Skills and Competencies for The Future of Work. *IFAC-PapersOnLine*, 55(2) 511-515. DOI: https://www.sciencedirect.com/science/article/pii/S2405896322002464 (*Proceedings of the 14th IFAC workshop on Intelligent Manufacturing Systems,* March 29-30, 2022**.)**

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621

[17] Cohen Y. , Hila H.B. (2023) Hard skills for digitalization and AI integration in Industry 4.0 and 5.0 shopfloors. Accepted to The 22nd *IFAC World Congress 2023*, July-2023,Yokohama, Japan,

[18] Cohen, Y., Shoval, S., & Faccio, M. (**2019**). Strategic View on Cobot Deployment in Assembly 4.0 Systems. IFAC-PapersOnLine, 52(13), 1519-1524.

[19] Cohen Y. and Shoval S., New Cobot Deployment Strategy in Manual Assembly Stations: Countering the Impact of Absenteeism, Proceeding of the IFAC World Congress, Berlin (July **2020**).

[20] Cohen, Y., Shoval S., Faccio M. & Minto R. (2022) Deploying cobots in collaborative systems: major considerations and productivity analysis , *International Journal of Production Research,* 60 (6), 1815-1831. doi: doi.org/10.1080/00207543.2020.1870758,
Q1: H-142, Impact 10.2

[21] Cohen, Y., Golan, M., Singer, G., & Faccio, M. (2018). Workstation–Operator Interaction in 4.0 Era: WOI 4.0. IFAC-PapersOnLine, 51(11), 399-404. (16th IFAC Symposium on Information Control Problems in Manufacturing (INCOM-2018); Bergamo Italy)
https://www.sciencedirect.com/science/article/pii/S2405896318314514

[22] Maya Golan, **Yuval Cohen** & Gonen Singer (2020) A framework for operator – workstation interaction in Industry 4.0*, International Journal of Production Research, (IJPR),* 58 (8), 2421-2432, DOI: 10.1080/00207543.2019.1639842, https://doi.org/10.1080/00207543.2019.1639842
Q1: H-142, Impact 10.2

[23] Amorim, M., **Cohen, Y.,** Reis, J., & Rodrigues, M. (2019). Exploring Opportunities for Artificial Emotional Intelligence in Service Production Systems. IFAC-PapersOnLine, 52(13), 1145-1149.
https://www.sciencedirect.com/science/article/pii/S240589631931328X
(*9th IFAC Conference on Manufacturing Modelling, Management and Control MIM 2019: Berlin, Germany, 28–30 August 2019)*

[24] Cohen Y., Amorim M., Reis J., Rodrigues M., (2019). Frontline Employees Preferences for Interfacing Service 4.0 Artificial Emotional Intelligence Computerized Agent , 25th IJCIEOM - International Joint Conference on Industrial Engineering and Operations Management, Novi Sad, Serbia, July 15-17, 2019

ע"ר 580260164
רח' מבצע קדש 38 תל-אביב, 6998812 טל': 03-7688642, פקס: 03-7688621 www.afeka.ac.il
38 MIVTZA KADESH ST. TEL-AVIV 6998812 ISRAEL. TEL: 972-37688642, FAX: 972-37688621