Naomi Shaked-Monderer **November 15, 2023**

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CURRICULUM VITAE

1. Higher Education

A. Undergraduate and Graduate Studies

Period of Study	Name of Institution and Department	Degree	Year of Approval of Degree
1989-1992	Technion – Israel Institue of Technonolgy, Haifa, Israel Mathematics	D.Sc.	1992
1978-1982	Tel Aviv University, Tel Aviv, Israel Mathematics	M.Sc.	1982
1975-1978	Tel Aviv University, Tel Aviv, Israel Mathematics	B.Sc.	1978

B. Post-Doctoral Studies

Period of Study	Name of Institution, Department and Host
1992-1993	Queen's University, Kingston, ON, Canada Department of Mathematics and Statistics Host: Prof. Norman J. Pullman

2. Academic Ranks and Tenure in Institutes of Higher Education

Dates	Name of Institution and Department	Rank/Position
2021-present	The Max Stern Yezreel Valley College, Israel Department of Economics and Department of Management Information Systems	Professor
2015-2021	The Max Stern Yezreel Valley College, Israel Department of Economics and Department of Management Information Systems	Associate Professor (Tenured)
2012-present	Technion - IIT, Haifa, Israel Department of Mathematics	Senior Teaching Fellow[1]
2003-2015	The Max Stern Yezreel Valley College, Israel Department of Economics and Department of Management Information Systems	Tenured Senior Lecturer
2003-2011	Technion - IIT, Haifa, Israel Department of Mathematics	Associate Teaching Fellow
2002-2003	The Max Stern Yezreel Valley College, Israel Department of Economics and Department of Management Information Systems	Senior Lecturer
2000-2002	Technion - IIT, Haifa, Israel Department of Mathematics	Teaching Fellow
1999-2000	Washington University, St. Louis, MO, USA Department of Mathematics	Visiting Scholar
1995-2001	The Max Stern Yezreel Valley College, Israel Department of Economics and Department of Management Information Systems	Lecturer
1993-1999	Technion, Haifa, Israel Department of Mathematics	Teaching Fellow
1992-1993	Queen's University, Kingston, ON, Canada Department of Mathematics and Statistics	Post-doctoral visitor

[1] Highest rank in the adjunct track

3. Offices in Academic Administration

2021-present	Head of the Senate, YVC
2015-2021	Member of the Senate, YVC
2013-present	Member, Honors Program Committee, YVC
2018-2020	Member, Room Occupancy Committee, YVC
2006-2013	Member, Research Fair Committee, YVC
2003-2006	Head, Computing Committee, YVC
2003-2005	Member, Library Committee, YVC
2001-2003	Member, Committee for Appeals on Disciplinary Committee, YVC
1997-1999	Head, Committee for Appeals on Disciplinary Committee, YVC

4. Scholarly Positions and Activities outside the Institution

A. Activity in professional associations

2019	Member, Nominations Committee for ILAS Board of Directors and ILAS president
2012	Member, Nominations Committee for ILAS Board of Directors
2005	Member, Nominations Committee for ILAS Board of Directors

B. Editorial duties

2024-	Associate Editor of ELA - The Electronic Journal of Linear Algebra
2013-2018	Contributing Editor, IMAGE – The Bulletin of the International Linear Algebra Society
2010-2012	Guest Editor, Linear Algebra and its Applications, Special Issue in honor of Abraham Berman, Moshe Goldberg, and Raphael Loewy

C. Reviewing activities

2015-present	Reviewer for Mathematical Reviews
1992-present	Reviewer - for Linear Algebra and its Applications, Electronic Journal of Linear Algebra, Linear and Multilinear Algebra, Taiwanese Journal of

	Mathematics, Operators and Matrices, Note di Matematica, Discrete Applied Mathematics, Journal of Global Optimization, European Journal of Combinatorics, Discrete Mathematics

5. Participation in Scholarly Conferences

A. Active Participation

I. International Conferences

Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
September 2023	MatTriad 2019 International Conference on Matrix Analysis and its Applications,	Będlewo, Poland	Sign patterns of inverse douby nonnegative matrices and inverse completely positive matrices	
July 2023	International Workshop on Matrix Analysis and Its Applications	Quynhon, Vietnam	Sign patterns of inverse douby nonnegative matrices and inverse completely positive matrices	Online presentation
June 2022	**ILAS 2022** **24th conference of the International Linear Algebra Society**	**Galway, Ireland**	**Sign patterns of inverse DNN and inverse CP matrices**	**Talk in the invited mini-symposium 'Copositive and completely positive matrices and related topics'** **(co-organizer of the mini-symposium)**
September 2019	MatTriad 2019	Liblice, Czech Republic	Complete multipartite graphs that are determined,up to	

	International Conference on Matrix Analysis and its Applications,		switching by their Seidel spectrum	
August 2019	**ICCOPT 2019** **International conference of continuous optimization 2019**	**Berlin, Germany**	**On the inverse of a copositive matrix**	**Invited talk in the cluster `Conic, Copositive, and Polynomial Optimization'**
December 2018	**OGDA 2018** **Workshop on Optimization, Game Theory, and Data Analysis 2018**	**Vienna, Austria**	**Some copositive thoughts**	**Invited talk**
October – November 2017	**Oberwolfach Workshop on Copositivity and Complete Positivity**	**Oberwolfach, Germany**	**SPN graphs: When copositive=SPN**	**Invited talk** **(co-organizer)**
July 2017	**IFORS 2017**	**Quebec City, Canada**	**SPN graphs: When copositive=SPN**	**Invited talk in the stream `Copositive and completely positive optimization'**
July 2017	**EurOpt 2017**	**Montreal, Canada**	**SPN completable graphs** (joint work with A. Berman, M. Dür and M. Rajesh Kannan)	**Invited talk in the stream `Copositive and completely**

				positive problems'
July 2016	**20th ILAS conference**	**Leuven, Belgium**	**SPN graphs: When copositive=SPN**	**Invited talk in a contributed mini-symposium**
December 2014	**The 2014 International Conference on Tensors, Matrices and their Applications (TMA2014)**	**Suzhou, China**	**Nearly positive matrices** (joint work with B. Shader and D. Szyld)	**Invited talk**
December 2014	**2014 Shanghai International Conference on Matrix Analysis and Applications (SICMAA 2014)**	**Shanghai, China**	**SPN completable graphs** (joint work with A. Berman, M. Dür and M. Rajesh Kannan)	**Invited talk**
August 2014	19th ILAS Conference	Seoul, South Korea	SPN completable graphs (joint work with A. Berman, M. Dür and M. Rajesh Kannan)	
June 2014	**Conference on Graph Theory, Matrix Theory and Interactions, a conference to celebrate the scholarship of David Gregory**	**Queen's University, Canada**	**The maximum angle between copositive matrices** (joint work with F. Goldberg)	**Invited talk**

June 2013	18th ILAS conference	Providence, RI, USA	On the cp-rank and the DJL conjecture (joint work with A. Berman, I. M. Bomze, F. Jarre and W. Schachinger)	
July 2012	**Workshop on Theoretical and Applied Aspects of Nonnegative matrices**	**BIRS, Banff, AB, Canada**	**Boundary completely positive matrices and their cp-ranks** (joint work with I.M. Bomze, F. Jarre and W. Schachinger)	**Invited talk**
August 2011	17th ILAS conference	Braunschweig, Germany	Matrices attaining the minimum semidefinite rank of a chordal graph	
August 2008	**Workshop on Non-negative Matrices & Their Applications**	**Hamilton Institute, Maynooth, Ireland**	**The cp-ranks of completely positive matrices**	**Invited talk**
June 2008	**15th ILAS conference**	**Cancun, Mexico**	**Completely Positive Matrices and the CP-Rank**	**Plenary talk**
July 2006	13th ILAS conference	VU university, Amsterdam, Netherlands	Double Soules pairs and matching Soules bases (joint work with M.Q. Chen and M. Neumann)	
July 2006	**Workshop on Non-negative Matrices & Their Applications**	**Hamilton Institute, Maynooth, Ireland**	**Double Soules pairs and matching Soules bases** (joint work with M.Q. Chen and M. Neumann)	**Invited talk**
July 2004	**Workshop on Non-negative Matrices & Their Applications**	**Hamilton Institute, Maynooth, Ireland**	**The CP-rank of matrices generated by Soules matrices**	**Invited talk**

June 2002	10th ILAS conference	Auborn, AL, USA	Minimal CP-rank	
June 1998	7th ILAS conference	Madison, WI, USA	Support Restricted Rank 1 Representations of Completely Positive Matrices (joint work with A. Berman)	
December 1997	10th Haifa Matrix Theory Conference	Technion, Haifa, Israel	Support Restricted Rank 1 Representations of Completely Positive Matrices (joint work with A. Berman)	
March 1992	7th Haifa Convexity and Geometry Conference	Nahsholim, Israel	Convex Sets of Positive Semidefinite Matrices	
November 1991	Combinatorial Matrix Theory Workshop	IMA Institute, MN, USA	Extreme Chordal Matrices	
June 1990	4th Haifa Matrix Theory Conference	Technion, Haifa, Israel	Extreme Doubly Stochastic Doubly Nonnegative Matrices (joint work with A. Berman)	

II. Conferences in Israel

Date	**Name of Conference**	**Place of Conference**	**Subject of Lecture/Discussion**	**Role**

November 2011	Matrices and Education Workshop in honor of Prof. Abraham Berman on the occasion of his retirement	The Technion, Haifa, Israel	Completely positive matrices	
January 2023	Problem Solving Celebrating Prof. Abraham Berman's 80th birthday	Haifa University, Israel	Problems with copositive matrices	
June 2023	Research Fair	YVC college, Israel	Sign patterns of inverse DNN matrices and inverse CP matrices	Poster presentation

B. Organization of Conferences or Sessions

Date	**Name of Conference**	**Place of Conference**	**Subject of Conference**	**Role**
June 5-9, 2023	25th ILAS conference	Madrid, Spain		Member of the Scientific Organizing Committee
June 20-24, 2022	24th ILAS conference	Galway, Ireland	Classical Connections	Co-organizer (with A. Berman and M. Dür) of the invited minisymposium `Copositive and completely positive matrices and related topics'

October 29– November 4, 2017	Oberwolfach Workshop on Copositivity and Complete Positivity	Oberwolfach, Germany	Copositivity and Complete Positivity	Co-organizer (with A. Berman, I. Bomze and M. Dür)
December 2014	SICMAA 2014	Shanghai University, Shanghai, China	Matrix Analysis and Applications	Member of the scientific organizing committee
December 2012	16th Haifa Matrix Theory conference	Technion, Haifa, Israel	Matrix Analysis	Member of the organizing committee
November 2011	Matrices and Education	Technion, Haifa, Israel	workshop in honor of Prof. Abraham Berman on the occasion of his retirement - Matrices and Education	Member of the organizing committee

6. Invited Lectures/Colloquium Talks

Date	**Place of Lecture**	**Name of Forum**	**Presentation/Comments**
May 2009	Afeka College, Tel Aviv, Israel	Colloquium	Completely Positive Matrices and the CP-Rank
February 1993	College of William and Mary, Williamsburg VA, USA	Colloquium	Extreme Positive Semidefinite Matrices with a Given Sparsity Pattern

8. Research Grants

A. Grants Awarded

Role in Research	Co-Researchers	Topic	Publications	Funded by/ Amount	Year
PI	PIs: Abraham Berman (Technion) and Mirjam Dür (Trier University), PIs	Completely Positive and Copositive Matrices	D: 14, 16-24	GIF 180,000 EU	2013-2015
Co-PI	PIs: Abraham Berman (Technion) and Xiao-Dong Zhang (Jiao Tong University)	Spectral Graph Theory, Completely Positive Matrices and Co-Positive Matrices	D: 26- 32, 34 E: 1	NSFC-ISF 693,000 ILS	2015-2017

9. Teaching

A. Courses Taught in Recent Years

Year	Course Name	Type of Course	Degree	Number of Students
2015-present	Calculus 1M	Technion, Mandatory for IS, EE and physics students	B.Sc.	100
2014-present	Discrete Mathematics II	YVC, Mandatory for IS students	B.Sc.	50
2014-present	Discrete Mathematics I	YVC, Mandatory for IS students	B.Sc.	50
2009-2013	Foundations of Logic and Set Theory	YVC, Mandatory for IS students	B.A.	50
1995-2016	Calculus II	YVC, Mandatory for economics students	B.A.	60-70
1995-2015	Calculus I	YVC, Mandatory for economics students	B.A.	60-70

1995-present	Linear Algebra	YVC, Mandatory for economics students and for IS students	B.A.	60
1996-2001, 2012-2014, 2016	Algebra 1M (linear algebra)	Technion, Mandatory for EE students and physics students	B.Sc.	100+
2002, 2004, 2007, 2011	Algebra A (linear algebra)	Technion, Mandatory for CS students and math students	B.Sc.	100+
1993-2007, 2008-2010, 2012-	Calculus 1M/1T/1N	Technion, Mandatory for CS,EE and physics/ME/IE students	B.Sc.	100+

B. Supervision of Post Graduate Students

Name of Student	**Title of Research**	**Degree**	**Date of Completion**	**Students' Achievements (in Publications)**
Ranveer Singh (jointly with A. Berman)	Spectral graph theory, completely positive and co-positive matrices	Post-doc	October 2019	D: 28,32,34 E: 1
Swarup K. Panda (jointly with A. Berman)	Spectral graph theory, completely positive and co-positive matrices	Post-doc	August 2018	D: 30
Ana I. Julio (jointly with A. Berman)	Spectral graph theory, completely positive and co-positive matrices	Post-doc	February 2016	

Roberto C. Diaz (jointly with A. Berman)	Spectral graph theory, completely positive and copositive matrices	Post-doc	February 2016	
M. Rajesh Kannan (jointly with A. Berman)	Completely positive and copositive matrices and tensors	Post-doc	July 2015	D: 17,20,22
Felix Goldberg (jointly with A. Berman)	Copletely positive and copositive matrices	Post-doc	September 2013	D: 16

B. Supervision of Research Projects for Undergraduates

Name of Student	**Project Title**	**Program**	**Date of Completion**	**Students' Achievements**
Alon Ben-Haim and Amit Weintroub (joint with A. Berman)	Completely positive and copositive matrices and tensors	Mathematics research Projects	September 2016	Working paper on integral complete positivity

PUBLICATIONS

In joint publications, names are usually ordered by alphabetical order. Deviation from that custom indicates acknowledgment of a particular contribution to the paper.

A. Ph.D. Dissertation

Convex sets of Positive Semidefinite Matrices (1992), 100pp, Hebrew, Technion.

Supervisor: Professor Abraham Berman (2, 3 on the list of published articles)

B. Authored Books – Published

1. A. Berman, **N. Shaked-Monderer** (2003). Completely Positive Matrices, World Scientific Publishing Company, Inc., River Edge, NJ. [x+206 pp.] link

2. **N. Shaked-Monderer**, A. Berman (2021). Copositive and Completely Positive Matrices, World Scientific, [x+521 pp.] link

Authored Textbooks – Published

1. **N. Shaked-Monderer** (2004). אלגברה לינארית לתלמידי מדעי הטבע (a textbook in Linear Algebra for Life Sciences Students), Raanana, Open University of Israel. [Hebrew] [v+358pp.]

C. Edited Books and Special Journal Issues – Published

1. W. Barrett, **N. Shaked-Monderer** and E. Tadmor (Editors) (2013). *Linear Algebra and its Applications*, Volume 438, Issue 10, Pages 3723-4102. Special issue in honor of Abraham Berman, Moshe Goldberg, and Raphael Loewy.

D. Articles in Refereed Journals

In joint publications, names are usually ordered by alphabetical order. Deviation from that custom indicates acknowledgment of a particular contribution to the paper.
Citation numbers are non-self-citation numbers according to WoS.

Published

1. **N. Shaked-Monderer** (1989). An absolutely extremal flow with a non-absolutely extremal factor. *Proceedings of the American Mathematical Society* **105**, 215-220. (JCR IF: 0.927; SJR Q1) link

2. **N. Shaked-Monderer** and A. Berman (1992). More on extremal positive semidefinite doubly stochastic matrices. *Linear Algebra and its Applications* **167**, 17-34. (JCR IF: 0.988; SJR Q1. Citations: 2) link

3. **N. Shaked-Monderer** (1993). Extreme chordal doubly nonnegative matrices with given row sums. *Linear Algebra and its Applications* **183**, 23-39. (JCR IF: 0.988; SJR Q1. Citations: 1) link

4. **N. Shaked-Monderer** (1994). Extremal positive semidefinite matrices with given sparsity pattern. *Linear and Multilinear Algebra* **36**, 287-292. (JCR IF: 1.112; Q2. Citations: 2) link

5. A. Berman and **N. Shaked-Monderer** (1998). Remarks on completely positive matrices. *Linear and Multilinear Algebra* **44**, 149-163. (JCR IF: 1.112; SJR Q2. Citations: 5) link

6. **N. Shaked-Monderer** (2001). Minimal CP Rank, *Electronic Journal of Linear Algebra* **8**, 140-157. (JCR IF: 0.631; SJR Q3. Citations: 7) link

7. **N. Shaked-Monderer** (2004/2005). A note on the CP-rank of matrices generated by Soules matrices, *Electronic Journal of Linear Algebra* **12**, 2-5. (JCR 5Yr IF: 0.631; SJR Q3. Citations: 5) link

8. R. A. Horn, V. V. Sergeichuk and **N. Shaked-Monderer** (2005). Solution of linear matrix equations in a *Congruence class, *Electronic Journal of Linear Algebra* **13**, 153-156. (JCR IF: 0.631; SJR Q3. Citations: 11) link

9. M.Q. Chen, M. Neumann and **N. Shaked-Monderer** (2007), Double Soules Pairs and Matching Soules Bases, *Linear Algebra and its Applications*, **421**, Issues 2-3, 315-327. (JCR IF: 0.988; SJR Q1. Citations: 1) link

10. M.Q. Chen, M. Neumann and **N. Shaked-Monderer** (2007), Basic Soules Matrices and Their Applications, *Linear Algebra and its Applications*, **429**, Issues 5-6, 951-971. (JCR IF: 0.988; SJR Q1. Citations: 3) link

11. **N. Shaked-Monderer** (2009). A note on upper bounds on the cp-rank, *Linear Algebra and its Applications* **431**, 2407-2413. (JCR IF: 0.988; Q1. Citations: 5) link

12. **N. Shaked-Monderer** (2013). Matrices attaining the minimum semidefinite rank of a chordal graph, *Linear Algebra and its Applications*, **438**, pp. 3804-3816. (JCR IF: 0.988; SJR Q1. Citations: 3) link

13. **N. Shaked-Monderer**, I. M. Bomze, F. Jarre and W. Schachinger (2013), On the cp-rank and the minimal cp factorization. *SIAM Journal on Matrix Analysis and Applications*, **34(2)**, pp. 355-368. (JCR IF: 1.490; Q1. Citations: 21) link

14. **N. Shaked-Monderer**, A. Berman, I. M. Bomze, F. Jarre and W. Schachinger (2014), New results on the cp-rank and related properties of co(mpletely)positive matrices, *Linear and Multilinear Algebra* **63,** 384-396. (JCR IF: 1.112; SJR Q2. Citations: 17) link

15. B. Shader, **N. Shaked-Monderer** and D. Szyld (2014), Nearly positive matrices. *Linear Algebra and its Applications*. **449**, pp. 520-544. (JCR IF: 0.988; SJR Q1. Citations: 4) link

16. F. Goldberg and **N. Shaked-Monderer** (2014), On the maximal angle between copositive matrices, *Electronic Journal of Linear Algebra* **27**, pp. 837-850. (JCR IF: 0.631; SJR Q3. Citations: 7) link

17. M. Rajesh Kannan, **N. Shaked-Monderer**, A. Berman (2015), Some properties of strong H-tensors and regular H-tensors, *Linear Algebra and its Applications* **476**, pp. 42-55. (JCR IF: 0.988; SJR Q1. Citations: 59) link

18. **N. Shaked-Monderer** (2015), Bounding the CP-rank by graph parameters, *Electronic Journal of Linear Algebra* **28**, pp. 99-116. (JCR IF: 0.631; SJR Q3. Citations: 3) link

19. A. Berman, M. Dür and **N. Shaked-Monderer** (2015), Open problems in the theory of completely positive and copositive matrices, *Electronic Journal of Linear Algebra* **29**, pp. 46-58. (JCR IF: 0.631; SJR Q3. Citations: 32 (Scopus)) link

20. **N. Shaked-Monderer**, A. Berman, M. Dür, M. Rajesh Kannan (2016), SPN completable graphs, *Linear Algebra and its Applications* **498**, pp. 58-73. (JCR IF: 0.988; SJR Q1. Citations: 3) link

21. A. Berman, M. Dür, **N. Shaked-Monderer** and J. Witzel (2016), Cutting planes for semidefinite relaxations based on triangle-free graphs, *Optimization Letters* **10 (3)**, pp. 433-446 (JCR IF: 1.502; SJR Q1; Citations: 1). link

22. M. Rajesh Kannan, **N. Shaked-Monderer** and A. Berman (2016), On weakly irreducible nonnegative tensors and interval hull of some classes of tensors, *Linear and Multilinear Algebra* **64(4)**, pp. 667-679. (JCR IF: 1.112; SJR Q2. Citations: 6) link

23. **N. Shaked-Monderer** (2016), SPN graphs: when copositive=SPN, *Linear Algebra and its Applications* **509**, pp. 82-113. (JCR IF: 0.988; SJR Q1. Citations: 6) link

24. **N. Shaked-Monderer** (2017), The DJL conjecture for order 6, *Operators and Matrices* 11(1), pp. 71-88. (JCR IF: 0.417; SJR Q3. Citations: 7) link

25. A. Berman, **N. Shaked-Monderer** (2018), Completely Positive Matrices: Real, Rational and Integral, *Acta Mathematica Vietnamica* **43**, pp. 623-639. (SJR Q3. Citations: 3) link

26. **N. Shaked-Monderer** (2018), Corrigendum to "SPN graphs: When copositive = SPN" [Linear Algebra Appl. 509 (2016) 82–113], *Linear Algebra and its Applications* **541**, pp. 285-286. (JCR IF: 0.988; SJR Q1. Citations: 2) link

27. **N. Shaked-Monderer**, M. Dür, A. Berman (2018), Complete positivity over the rationals. *Pure and Applied Functional Analysis* **3**, pp. 681-691. link

28. A. Berman, **N. Shaked-Monderer**, R. Singh, X.-D. Zhang (2019), Complete multipartite graphs that are determined, up to switching, by their Seidel spectrum, *Linear Algebra and its Applications* **564**, pp. 58-71. (JCR IF: 0.988; SJR Q1. Citations: 5) link

29. L. Hogben, **N. Shaked-Monderer** (2019), SPN graphs, *Electronic Journal of Linear Algebra* **35**, pp. 376-386. (JCR IF: 0.631; SJR Q3. Citations: 1) link

30. A. Berman, **N. Shaked-Monderer**, S.K. Panda (2020), Strongly self-inverse weighted graphs, *Electronic Journal of Linear Algebra* **36**, pp. 80-89. (JCR IF: 0.631; SJR Q3) link

31. **N. Shaked-Monderer** (2020), On the generalized inverse of a copositive matrix. *Linear and Multilinear Algebra* **68**, pp. 1384-1394. (JCR IF: 1.112; SJR Q2) link

32. A. Berman, **N. Shaked-Monderer**, Triangle-free graphs and completely positive matrices, *Central European Journal of Operations Research*, 7 pp. (JCR IF: 2; SJR Q2) link

33. R. Singh, C. Zheng. **N. Shaked-Monderer**, A. Berman (2020), Nonsingular (vertex-weighted) block graph, *Linear Algebra and its Applications* **602**, pp. 138-156. (JCR IF: 1.307; SJR Q1; Citations: 1) link

34. **N. Shaked-Monderer**, On the number of CP factorizations, *Linear and Multilinear Algebra*, 13 pp, in press. (JCR IF: 1.112; SJR Q2) link

35. R. Singh, **N. Shaked-Monderer,** A. Berman (2022), A linear time algorithm to check the nullity of block graphs, *Discrete Applied Mathematics*, **319**, pp. 61-70. (JCR IF: 1.041; SJR Q2; Citations: 2) link

36. **N. Shaked-Monderer**, Preservers of the cp-rank, *Linear and Multilinear Algebra*, 12 pp, in press. (JCR IF: 1.112; SJR Q2) link

37. **N. Shaked-Monderer**, Sign patterns of inverse doubly nonnegative matrices and inverse completely positive matrices, *Linear Algebra* and its Applications **659**, pp. 10-23. (JCR IF: 1.307; SJR Q1) link

E. Articles in Conference Proceedings (Refereed)

1. R. Singh, **N. Shaked-Monderer**, and A. Berman (2019), Linear time algorithm to check the singularity of block graphs, in S. P. Pal and A. Vijayakumar (eds.), *Algorithms and Discrete Applied Mathematics* (Springer International Publishing, Cham), pp. 77–90. link

F. Entries in Encyclopedias (Refereed)

Published

1. A. Berman**, N. Shaked-Monderer**, Nonnegative Matrices and Digraphs, in: R.A. Meyer (Ed.), Encyclopedia of Complexity and Systems Science, (2009) Springer. link

G. Textbook Translations (into Hebrew)

Published

1. Translators: E. Levin and **N. Shaked-Monderer**.
"פונקציות מרוכבות" (1984-1992), Open University of Israel Press. Translation of "Complex Analysis" of the Open University of the UK.

2. Translator: **N. Shaked-Monderer**.
"חשבון דיפרנציאלי ואינטגרלי א", Vols. 1 (1997) and 2 (1998), Open University of Israel Press, Tel Aviv. Translation of: "Calculus with Analytic Geometry", Chapters 1-11, by Howard Anton. [xx+700+102pp.]

3. Translator: **N. Shaked-Monderer**.
"חשבון דיפרנציאלי ואינטגרלי ב", Vols. 1 and 2 (1999), Open University of Israel Press, Tel Aviv. Translation of: "Calculus with Analytic Geometry", Chapters 12-19, by Howard Anton. [xviii+520+85pp.]

4. Translator: **N. Shaked-Monderer**.
"תורת המספרים האלמנטרית" (2003), Open University of Israel Press, Tel Aviv. Translation of: "Elementary Number Theory", by David Burton.[xvi+495pp.]

H. Other Publications

1. Minimum Eigenvalue of a Special Matrix, solution to Problem 41-14, *IMAGE Problem Corner*, Issue 42, spring 2009.
2. W. Barrett, R.A. Brualdi, **N. Shaked-Monderer**, E. Tadmor (2013), Abraham Berman, *Linear Algebra* and its Applications, Special issue in honor of Abraham Berman, Moshe Goldberg and Raphael Lowey, **438**, pp. 3724-3734. link