

CURRICULUM VITAE

Professor Mark Elin

June 2024

WORK ADDRESS: Braude College of Engineering, Department of Mathematics
P.O. Box 78, Karmiel, 21982, ISRAEL
Tel: 972-4-9086404, Fax: 972-4-9901802

HOME ADDRESS: 20/3 Beit Akerem St., Karmiel, Israel
Tel: 972-4-9080355, 972-50-4041362

ID. no 317530889

Date of birth: March 10, 1961

Place of birth: Krasnoyarsk, USSR

Immigrated to Israel: 27.03.1997

Marital status: Married + daughter

E-mail: mark_elin@braude.ac.il

EDUCATION

1988 **Ph.D.** (Physics and Mathematics) Institute of Physics, Siberian Branch
of the Academy of Sciences of the USSR
Dissertation: *P-convexity and Hurwitz composition in multidimensional
complex analysis*

1983 **M.Sc.** (Mathematics) Krasnoyarsk State University, (USSR)
Dissertation: *On Hurwitz composition in several complex variables*

ACADEMIC EXPERIENCE

2013- present Professor, Braude College, Karmiel, Israel

2007- 2013 Associate Professor, ORT Braude College, Karmiel, Israel

2002-2007 Senior Lecturer, ORT Braude College, Karmiel, Israel

2001-2004 Adjunct lecturer, Technion, Haifa, Israel

1998-2002 Lecturer, ORT Braude College, Karmiel, Israel

1998 Research Fellow, Mathematics Department, Technion, Haifa, Israel

1990-1997 Associate Professor, Department of Calculus and
Department of Mathematical Methods in Physical Sciences,
Krasnoyarsk State Pedagogical University (Russia)

1988-1990 Senior Lecturer, Department of Higher Mathematics,
Siberian Technological Institute, Krasnoyarsk (USSR)

1984-1987 Research Fellow, Institute of Physics, Siberian Branch
of the Academy of Sciences of the USSR

1984-1986 Adjunct lecturer, Krasnoyarsk State University (Russia)

1983-1984 Lecturer, Department of Higher Mathematics,
Siberian Technological Institute, Krasnoyarsk (USSR)

TEACHING EXPERIENCE

BRAUDE COLLEGE

Graduate Course:

Analytic methods for mechanical engineering I (new course in ORT Braude College)

Undergraduate Courses:

Calculus I - for engineer students and for math students

Calculus II

Linear Algebra

Advanced Mathematics (Ordinary Differential Equations and Laplace Transform)

Partial Differential Equations (new course in ORT Braude College)

Complex Analysis - for engineer students and for math students

Dynamical Systems

OTHER UNIVERSITIES

Graduate Courses

Braude College of Engineering:

Analytic Methods for Mechanical Engineering

Krasnoyarsk State University:

Special Courses on Analytic Functions of Several Complex Variables

Krasnoyarsk State Pedagogical University:

Functional Analysis,

Theory of Probability and Mathematical Statistics,

Differential Equations

Undergraduate Courses

The Technion:

Calculus 2,

Partial Differential Equations,

Complex Analysis

Siberian Technological Institute:

Analytic Geometry,

Calculus I,

Calculus II

Krasnoyarsk State University:

Complex Analysis

Krasnoyarsk State Pedagogical University:

Calculus I,

Calculus II

RESEARCH INTERESTS

Complex Analysis and Dynamical Systems

RESEARCH COLLABORATION

- 2021 Virtual, via zoom (with Professor N. Tuneski)
2018 At the Tohoku University, Sendai, Japan (with Professor T. Sugawa)
2017 At the Galilee Research Center for Applied Mathematics, Karmiel (with Professor T. Sugawa)
2016 At the Galilee Research Center for Applied Mathematics, Karmiel (with Professor N. Tuneski)
2016 At the Istituto Nazionale di Alta Matematica Francesco Severi, Italy (with Professor F. Bracci)
2015 At the Galilee Research Center for Applied Mathematics, Karmiel (with Professor N. Tarkhanov)
2013 At the Galilee Research Center for Applied Mathematics, Karmiel (with Professor V. Bolotnikov)
2012 At the Department of Mathematics, University of Rome II Tor Vergata, Italy (with Professor F. Bracci)
2011 At the Galilee Research Center for Applied Mathematics, Karmiel (with Professor V. Bolotnikov)
2010 At the University of Potsdam, Germany (with Professor N. Tarkhanov)
2006 At the Galilee Research Center for Applied Mathematics, Karmiel (with Professor R. Tauraso)
2005 At the Galilee Research Center for Applied Mathematics, Karmiel (with Professor L. Harris)
2001 At the Galilee Research Center for Applied Mathematics, Karmiel (with Professor V. Goryainov)
1998-present At the Mathematics Department of the Technion (with Professors D. Aharonov and S. Reich)

ACADEMIC AND PROFESSIONAL AWARDS and GRANTS

- 2000 Grant of the Guastella fellowship for young researchers, SACTA-RASHI Fund
2004 Award for Excellence, ORT Braude College
2005 Award for Excellence, ORT Braude College
2006 Award for Excellence, ORT Braude College
2007 Award for Excellence, ORT Braude College
2013 FP-7 grant of the European Union (IRSES), Grant Agreement Number 612669
2016 Award for Excellence, ORT Braude College
2017 Award for Excellence, ORT Braude College
2018 Award for Excellence, ORT Braude College
2019 Award for Excellence, ORT Braude College
2020 Award for Excellence, ORT Braude College
2021 Award for Excellence, Braude College of Engineering
2022 Award for Excellence, Braude College of Engineering
2023 Award for Excellence, Braude College of Engineering

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Israel Mathematical Union
American Mathematical Society
European Mathematical Society

PROFESSIONAL ACTIVITIES

2023-present Head of the Galilee Research Center for Applied Mathematics, Braude College of Engineering

2023-present Member of the Academic Council, Braude College of Engineering

2023-present Member of the Appointment Committee, Braude College of Engineering

2023 Member of Organizing Committee of the Spring School on Geometric Methods In Data Science, Braude College

2022 Organizer of the workshop on Complex Analysis and Dynamical Systems, in honor of the retirement of Professor David Shoikhet, Braude College

2021 Chair of one of the sessions, International Conference on Complex Analysis and Related Topics, Lviv, Ukraine

2018-2023 Member of the Management Committee of the Galilee Research Center for Applied Mathematics of Braude College

2018 Member of Organizing Committee of the Workshop on Geometry and Applications organized by the ORT Braude College

2018 Member of Organizing Committee of the First Joint Workshop on Lie Groups, Lie Algebras and Applications organized by the ORT Braude College and Haifa University

2018 Member of the Scientific Committee of the International Conference “Perspectives in Modern Analysis” in honor of Dov Aharonov, Samuel Krushkal, Simeon Reich and Lawrence Zalcman, organized by the Technion, Holon Institute of Technology, the Gelbart Research Institute for the Mathematical Sciences of Bar-Ilan University, the Galilee Research Center for Applied Mathematics of ORT Braude College of Engineering and ISAAC

2018 Member of the Organizing Committee of the Workshop on Mathematical Education in Science and Technology, ORT Braude College

2017 Member of the Organizing Committee of the 20-th Israeli Mini-Workshop in Applied and Computational Mathematics, ORT Braude College

2017 Organizer of Math Teachers Workshop, ORT Braude College

2017 Organizer of the First Israeli Modelling Week, ORT Braude College

2016-2020 Head of the Mathematics Department of ORT Braude College

2016 Organizer of the International Workshop on Operator Theory and its Applications, ORT Braude College

2016 Member of the Committee for the best student final project in the frame of the Industry-Academy Conference, ORT Braude College

2014-2020 Member of the Appointment Committee, ORT Braude College

2014-2016 Member of the Research Committee, ORT Braude College

2014-2015 Member of the Organizing Committee of the Seventh International Conference on Complex Analysis and Dynamical Systems organized by ORT Braude

- College (Karmiel, Israel), Bar-Ilan University (Ramat Gan, Israel) and University of Miami (Florida, USA)
- 2014 Member of the Advisory Committee of the International Conference “Information Technologies: Theory, Innovations, Practice” organized by Poltava National Technical University, Dragomanov National Pedagogical University (Ukraine), Beijing Institute of Technology (China), Brandenburg University of Applied Sciences, Bielefeld University (Germany), Glyndŵr University (UK) and ORT Braude College (Israel)
- 2014 Member of Organizing Committee of the Workshop on Operator Theory in honor of Prof. V. Khatskevich, ORT Braude College
- 2013 Chair of one of the sessions, International Conference on Complex Analysis and Related Topics, Lviv, Ukraine
- 2013 Chair of the Mathematics Session, The Ninth Interdisciplinary Research Conference of the ORT Braude College
- 2012-2014 Member of the Student Excellence Program Committee, ORT Braude College
- 2012-2016 Chair of the Final Project Committee, Department of Mathematics, ORT Braude College
- 2012-2013 Member of the Organizing Committee of the Sixth International Conference on Complex Analysis and Dynamical Systems in honor of 60–th Birthday of Professor David Shoikhet, organized by ORT Braude College (Karmiel, Israel), Bar-Ilan University (Ramat Gan, Israel) and University of Miami (Florida, USA)
- 2011-2013 Member of the Award Committee for innovative suggestion box, ORT Braude College
- 2012 Member of the Organizing Committee of the Fifteenth Israeli Applied and Computational Math Mini-workshop
- 2012 Co-organizer of the Satellite Thematic Session on Quasiconformal Mappings and Complex Dynamical Systems on the 6-th European Congress of Mathematics, Krakow, Poland
- 2008-2012 Head of the Mathematics Department of ORT Braude College
- 2011 Member of the Team for Academic Development, ORT Braude College
- 2011 Co-organizer (from the Israeli side) of the session on Geometric Function Theory, Israeli-Polish Mathematical Meeting organized by the Israel Mathematical Union (IMU) and the Polish Mathematical Society (PTM)
- 2010-2011 Member of the Organizing Committee of the Fifth International Conference on Complex Analysis and Dynamical Systems, organized by ORT Braude College (Karmiel, Israel), Bar-Ilan University (Ramat Gan, Israel) and University of Miami (Florida, USA)
- 2010 Member of the Organizing Committee of the International Workshop on Open Problems in Complex Dynamical Systems
- 2009 Chair of one of the sessions, International Conference on Infinite Particle Systems and Complex Systems V, Kazimierz Dolny, Poland
- 2009 Team Leader for the improvement of auxiliary tutoring
- 2008-2009 Member of the Organizing Committee of the International Conference on Complex Analysis and Dynamical Systems IV, organized by ORT Braude College (Karmiel, Israel), Bar-Ilan University (Ramat Gan, Israel) and the

- University of Miami (Florida, USA)
- 2008 Member of the Organizing Committee of the International Workshop on Open problems in Complex Analysis and Dynamical Systems
- 2008 Chair of the Mathematics Session, The Fourth Interdisciplinary Research Conference of the ORT Braude College
- 2007-2020 Member of the Academic Council, ORT Braude College
- 2007 Chair of the Mathematics\Physics Session, The Third Interdisciplinary Research Conference of the ORT Braude College
- 2006-2008 Member of the Research Committee, ORT Braude College
- 2005-2006 Member of the Organizing Committee of the Third International Conference on Complex Analysis and Dynamical Systems, organized by ORT Braude College (Karmiel, Israel), Bar-Ilan University (Ramat Gan, Israel) and the Technion (Haifa, Israel), editor of the conference abstracts
- 2005 Chair of one of the sessions, International Conference on Computational Methods and Function Theory, Joensuu, Finland
- 2005 Organizer of the mini-workshop on Open Problems in Geometric Function Theory which held in ORT Braude College (Karmiel) at 25.08.2005
- 2005-2018 Treasurer of the Galilee Research Center for Applied Mathematics of ORT Braude College
- 2003 Member of the Organizing Committee of the Second International Conference on Complex Analysis and Dynamical Systems in honor of 60–th Birthday of Professor Lawrence Zalcman, organized by ORT Braude College (Karmiel, Israel), Bar-Ilan University (Pamat-Gan, Israel) and University of Potsdam (Germany)

Educational activities

- 2019-2021 Creating of the educational program for the degree M.Sc. in Applied and Computational Mathematics, ORT Braude College (Karmiel, Israel)
- 2020-present Member of the Program Committee for the degree B.Sc. in Applied Mathematics, Braude College (Karmiel, Israel)
- 2016-2020 Chair of the educational program for the degree B.Sc. in Applied Mathematics, ORT Braude College (Karmiel, Israel)
- 2013-2016 Advisor of final projects for the B.Sc. degree in Applied Mathematics
- 2008-2016 Chair of the educational program for the degree B.Sc. in Applied Mathematics, ORT Braude College (Karmiel, Israel)
- 2005-2006 Creator of the educational program for the degree B.Sc. in Applied Mathematics, ORT Braude College (Karmiel, Israel)

Reviewing papers for

Electronic Journal of Differential Equations;
Contemporary Mathematics (Israel Mathematical Conferences Proceedings)
Proceedings of the London Mathematical Society
Rendiconti del Seminario Matematico di Padova
Complex Analysis and Operator Theory
Acta Mathematica Sinica
Journal of Fixed Point Theory and Application
Complex Variables and Elliptic Equations
Applied Mathematics and Computation
ISRN (International Scholarly Research Network) Mathematical Analysis Journal
Science China Mathematics
Proceedings Mathematical Sciences
Annales Polonici Mathematici
Abstract and Applied Analysis
Indian Journal of Mathematics
Annales Universitatis Mariae Curie-Skłodowska
Journal of Applied Analysis
Journal d'Analyse Mathématique
Journal of Fixed Point Theory
Turkish Journal of Mathematics
Mediterranean Journal of Mathematics
Journal of Inequalities and Applications
Acta Mathematica Scientia
Annales of University of Marie Curie-Skłodowska
Transactions of American Mathematical Society
Journal of Analysis
Journal of Applied Analysis
Revista Matemática Iberoamericana
Rendiconti del Circolo Matematico di Palermo
Mathematische Nachrichten
Results in Mathematics
Journal of Applied and Numerical Optimization
Issues of Analysis (Problemy Analiza)
Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales
The Journal of Geometric Analysis
Mathematics
Journal of Mathematical Analysis and Applications
Computational Methods and Function Theory
Filomat
Analysis and Mathematical Physics
Bulletin des sciences mathématiques
Pacific Journal of Mathematics

Reviewing proposals for grants

2023, 2024 - DFG

Participation in conferences

- 1984 The XIXth conference in Function Theory and Topology, Yalta, USSR
- 1985 The XXth conference in Function Theory and Topology, Yalta, USSR
- 1986 The XIth All-Union school in Theory of Operators on Functional Spaces, Chelyabinsk, USSR
- 1987 The All-Union Conference in Complex Analysis and Mathematical Physics, Siberian Branch of Academy of Sciences of the USSR, Krasnoyarsk, USSR
- 1987 The 4-th conference in Complex Analysis and Differential Equations, Chernogolovka, USSR
- 2000 Israel Mathematical Union Conference, Haifa, Israel
- 2000 The Third World Congress in Nonlinear Analysts, Catania, Italy
- 2001 Differential Equations and Complex Analysis, Karmiel, Israel
- 2001 Computational Methods and Functional Theory, Aviero, Portugal
- 2002 Multidimensional Complex Analysis, Krasnoyarsk, Russia
- 2002 International Congress of Mathematics-2002, Satellite Conference “Complex Analysis”, Shanghai, China
- 2003 International Conference on Fixed Point Theory and its Applications, Valencia, Spain
- 2005 Computational Methods and Function Theory, Joensuu, Finland
- 2005 XXth Nevanlinna Colloquium, Lausanne, Switzerland
- 2006 International Conference on Complex and Harmonic Analysis, Thessaloniki, Greece
- 2007 Workshop in Complex Analysis, Holon Academic Institute of Technology, Holon, Israel
- 2007 International Conference on Extremal Problems in Complex and Real Analysis, Moscow, Russia
- 2007 8-th International Conference on Fixed Point Theory and its Applications, Chiang Mai, Thailand
- 2008 INDAM Workshop on Holomorphic Iteration, Semigroups, and Loewner Chains, Rome, Italy
- 2009 International Conference on Complex Analysis and Related Topics V, Turku, Finland
- 2009 International Conference on Infinite Particle Systems and Complex Systems V, Kazimierz Dolny, Poland
- 2010 New Trends in Harmonic and Complex Analysis, Bremen, Germany
- 2011 Workshop in Complex Analysis, Holon Academic Institute of Technology, Holon, Israel
- 2011 International Symposium on Geometric Function Theory and Applications, Cluj-Napoca, Romania
- 2011 Israeli-Polish Mathematical Meeting, Lodz, Poland
- 2012 Harmonic and Complex Analysis and its Applications, Puerto de la Cruz, Tenerife, Canary Islands, Spain
- 2012 Operator theory and operator algebras, Ben-Gurion University of the Negev, Beer-Sheva, Israel
- 2012 International Conference on Complex Analysis and Related Topics (The 13th Romanian-Finnish Seminar), Ploiești, Romania
- 2012 6th European Congress of Mathematics, Satellite Thematic Session on Quasiconformal Mappings and Complex Dynamical Systems, Krakow, Poland

- 2013 International Conference on Complex Analysis and Related Topics, Lviv, Ukraine
- 2014 XVIIth Conference on Analytic Functions and Related Topics, Chelm, Poland
- 2014 Workshop on Analytic Functions and Applied Mathematics, Rzeszow, Poland
- 2014 The 10th International Symposium on Geometric Function Theory and Applications, Oradea, Romania
- 2015 International Conference on Differential & Difference Equations and Applications, Amadora, Portugal
- 2015 The Seventh International Conference on Mathematical Analysis, Differential Equations and Their Applications (MADEA 7), Baku, Azerbaijan
- 2016 The International Conference on Complex Analysis and Related Topics, Lviv, Ukraine
- 2016 XVIII-th Conference on Analytic Functions and Related Topics, Chelm, Poland
- 2016 INDAM Conference on Geometric Function Theory in Higher Dimension, Cortona, Italy
- 2016 INdAM Workshop on Complex function theory, its generalizations and applications, Roma, Italy
- 2017 The Third Workshop on Complex and Harmonic Analysis, Holon, Israel.
- 2017 Computational Methods and Function Theory, Lublin, Poland.
- 2017 The International Conference in Functional Analysis - Banach Conference, Lviv, Ukraine.
- 2017 The Uzbek-Israeli International Conference on Contemporary Problems in Mathematics and Physics, Tashkent, Uzbekistan.
- 2018 International Workshop on Conformal Dynamics and Loewner Theory, Sendai, Japan.
- 2019 The Ninth Congress of Romanian Mathematicians, Galați, Romania.
- 2019 The 27th International Conference on Finite and Infinite Dimensional Complex Analysis and Applications, Krasnoyarsk, Russia.
- 2019 The Second joint IMU – INdAM Conference in Analysis, Naples, Italy.
- 2020 VI International Conference of Mathematics and Computer Science "Congressio-Mathematica", Olsztyn, Poland.
- 2021 The International Conference on Complex Analysis and Related Topics, Lviv, Ukraine
- 2021 16-th International Symposium on Geometric Function Theory and Applications, Sibiu, Romania
- 2021 Workshop on Geometric Function Theory in Several Complex Variables and Complex Banach Spaces, Cluj-Napoca, Romania
- 2022 Workshop “Holomorphic Semigroups in Rome”, Rome, Italy
- 2022 VII International Conference of Mathematics and Computer Science "Congressio-Mathematica", Olsztyn, Poland
- 2022 Workshop on Complex Analysis and Dynamical Systems, in honor of the retirement of Professor David Shoikhet, Braude College
- 2022 Workshop dedicated to the memory of Prof. Gabriela Kohr, on Geometric Function Theory in Several Complex Variables and Complex Banach Spaces, second ed., Cluj-Napoca, Romania
- 2023 13-th International Conference on Clifford Algebras and Their Applications in Mathematical Physics, Holon, Israel
- 2023 The Tenth Congress of Romanian Mathematicians, Pitesti, Romania

- 2023 Workshop dedicated to the memory of Prof. Gabriela Kohr, on Geometric Function Theory in Several Complex Variables and Complex Banach Spaces, third ed., Cluj-Napoca, Romania
- 2024 International Conference Complex Analysis and Operator Theory dedicated to the anniversaries of Prof. D. Bshouty, S. Reich, and D. Shoikhet, Holon, Israel.

Colloquium & Seminar Lectures

- 1982 Colloquium talk at the Krasnoyarsk University, USSR
- 1983 Colloquium talk at the Novosibirsk University, USSR
- 1985 Professor L. Aizenberg's Seminar on Complex Analysis, Krasnoyarsk University, USSR
- 1986 Professor L. Aizenberg's Seminar on Complex Analysis, Krasnoyarsk University, USSR
- 1987 Professor V. Ivanov's Seminar, Sverdlovsk University, USSR
- 1989 Professor L. Aizenberg's Seminar on Complex Analysis, Krasnoyarsk University, USSR
- 1990 Professor B. Levin's Seminar on Complex Analysis, Kharkov University, USSR
- 1994 Seminar on Multidimensional Complex Analysis, Krasnoyarsk University, Russia
- 1996 Seminar on Multidimensional Complex Analysis, Krasnoyarsk University, Russia
- 1997 Seminar on Applied Mathematics, ORT Braude College, Karmiel, Israel
- 1999 Seminar on Applied Mathematics, ORT Braude College, Karmiel, Israel
- 2000 Seminar on Applied Mathematics, ORT Braude College, Karmiel, Israel
- 2004 Professor L. Zalcman's Seminar, Bar Ilan University, Israel
- 2004 Seminar on Applied Mathematics, ORT Braude College, Karmiel, Israel
- 2005 Professor S. Reich's Seminar on Nonlinear Analysis, Technion, Israel
- 2005 The First Interdisciplinary Research Conference of the ORT Braude College
- 2006 The Second Interdisciplinary Research Conference of the ORT Braude College
- 2010 Professor S. Reich's Seminar on Nonlinear Analysis, Technion, Israel
(two seminar's lectures)
- 2011 The Seventh Interdisciplinary Research Conference of the ORT Braude College
- 2012 Complex Analysis Seminar, University of Rome II Tor Vergata, Italy
- 2013 The Ninth Interdisciplinary Research Conference of the ORT Braude College
- 2013 Analysis Seminar, Bar Ilan University, Israel
- 2015 The Eleventh Interdisciplinary Research Conference of the ORT Braude College
- 2016 Professor S. Reich's Seminar on Nonlinear Analysis, Technion, Israel
- 2017 The 13-th Interdisciplinary Research Conference of the ORT Braude College
- 2018 Professor M. Lanza de Cristoforis' Seminar, University of Padova, Italy
- 2018 Professor S. Reich's Seminar on Nonlinear Analysis, Technion, Israel
- 2019 Professor S. Reich's Seminar on Nonlinear Analysis, Technion, Israel
- 2020 Professor S. Reich's Seminar on Nonlinear Analysis and Optimization, Technion, Israel
- 2021 Professor S. Reich's Seminar on Nonlinear Analysis and Optimization, Technion, Israel
- 2022 Seminar on (Hyper)Complex Analysis and Geometry, Politecnico di Milano, Italy
- 2022 Series of seminar lectures, Seminar on Analysis, Braude College, Israel

LIST OF PUBLICATIONS

Ph.D. Thesis

P-convexity and Hurwitz composition in multidimensional complex analysis, Krasnoyarsk, 1987, 94pp.

Refereed Papers

1. M. Elin, Multidimensional analogue of Hurwitz composition, *Izv. VUZ. Matem.* **2** (1985), 22-27 (in Russian, English translation: *Soviet Math. (Iz. VUZ)* **29** (1985), 25-32).
2. M. Elin, Multidimensional analogue of Hurwitz composition, "Multidimensional Complex Analysis", Krasnoyarsk, Institute of Physics, Siberian Branch of the Academy of Sciences of the USSR, 1985, 226-227 (in Russian).
3. M. Elin, On epimorphism of convolution operator in convex domains in C^n , *Sibirsk. Mat. Zh.* **27** (1986), 201-203 (in Russian).
4. M. Elin, Generalization of Hurwitz composition, *Izv. VUZ. Matem.*, **10** (1988), 74-76 (in Russian, English translation: *Soviet Math. (Iz. VUZ)* **32** (1988), 114-117).
5. M. Elin, On one type convexity in multidimensional complex analysis, All-Union Institute of Scientific Research and Technical Information (VINITI), 1991, No 244-v91, 28 p. (in Russian)
6. M. Elin, Multidimensional Hadamard composition, *Sibirsk. Mat. Zh.*, **35** (1994), 1052-1057 (in Russian, English translation: *Siberian Math. J.* **35** (1994), 936-940).
7. M. Elin, An acceleration method for the multiple power series of entire exponential type functions, *Advances in Modeling & Analysis*, A, AMCE Press, **19** (1994), 29-33.
8. M. Elin, On some classes of holomorphic functions connected with Hadamard product, "Complex Analysis and Differential Equations", Krasnoyarsk, 1997 (in Russian).
9. D. Aharonov, M. Elin, S. Reich and D. Shoikhet, Parametric representation of semi-complete vector fields on the unit ball in C^n and in Hilbert space, *Atti Acad. Naz. Lincei Cl. Sci. Fiz. Mat. Natur. Rend. Lincei (9) Mat. Appl.* **10** (1999), 229-253.
10. M. Elin, S. Reich and D. Shoikhet, Asymptotic behavior of semigroups of holomorphic mappings, *Progr. Nonlinear Differential Equations Appl.*, **42**, Birkhauser, Basel, 2000, 249-258.
11. M. Elin, S. Reich and D. Shoikhet, Holomorphically accretive mappings and spiral-shaped functions of proper contractions, *Nonlinear Analysis Forum*, **5** (2000), 149-161.
12. M. Elin, S. Reich and D. Shoikhet, A semigroup approach to the geometry of domains in complex Banach spaces, *Nonlinear Analysis*, **47** (2001), 3271-3280.
13. M. Elin and D. Shoikhet, Dynamic extension of the Julia-Wolff-Carathéodory Theorem, *Dynam. Systems Appl.* **10** (2001), 421-438.
14. M. Elin, S. Reich and D. Shoikhet, Dynamics of inequalities in geometric function theory, *J. Inequal. Appl.*, **6** (2001), 651-664.
15. M. Elin, L. Harris, S. Reich and D. Shoikhet, Evolution equations and geometric function theory in J^* -algebras, *J. Nonlinear Convex Anal.*, **3** (2002), 81-121.
16. M. Elin and D. Shoikhet, Univalent functions of proper contractions spirallike with respect to a boundary point, *Multidimensional Complex Analysis, Krasnoyarsk*, 2002, 28-36.

17. M. Elin, S. Reich and D. Shoikhet, Asymptotic behavior of semigroups of ρ -non-expansive and holomorphic mappings on the Hilbert ball, *Ann. Mat. Pura Appl.* (4) **181** (2002), 501-526.
18. M. Elin, V. Goryainov, S. Reich and D. Shoikhet, Fractional iteration and functional equations for functions analytic in the unit disk, *Comput. Methods Funct. Theory* **2** (2002), 353-366.
19. D. Aharonov, M. Elin and D. Shoikhet, Spirallike functions with respect to a boundary point, *Journ. Math. Anal. Appl.* **280** (2003), 17-29.
20. M. Elin, D. Shoikhet and V. Volkovich, Semigroups of holomorphic mappings on the unit disk with a boundary fixed point, *Intern. J. Pure Appl. Math.* **12** (2004), 427-453.
21. M. Elin, S. Reich and D. Shoikhet, Complex Dynamical Systems and the Geometry of Domains in Banach Spaces, 2004. *Dissertationes Math. (Rozprawy Mat.)* **427** (2004), 62 pp.
22. M. Elin, A. Goldvard, S. Reich and D. Shoikhet, Dynamics of spirallike functions, *Complex analysis and Dynamical Systems*, 41-57, *Contemp. Math.* **364**, Amer. Math. Soc., Providence, RI, 2004.
23. M. Elin and V. Khatskevich, Kœnigs embedding problem for operator affine mappings, *Complex analysis and Dynamical Systems II*, 113-120, *Contemp. Math.* **382**, Amer. Math. Soc., Providence, RI, 2005.
24. L. Aizenberg, M. Elin and D. Shoikhet, On the Rogosinski radius for holomorphic mappings and some its applications, *Studia Math.* **168** (2005), 147-158.
25. M. Elin and V. Khatskevich, Triangular plus-operators in Banach spaces: applications to the Kœnigs embedding problem, *J. Nonlinear Convex Anal.*, **6** (2005), 173-185.
26. M. Elin, Covering and distortion theorems for spirallike functions with respect to a boundary point, *Intern. J. Pure Appl. Math.* **28** (2006), 387-400.
27. M. Elin and D. Shoikhet, Angle distortion theorems for starlike and spirallike functions with respect to a boundary point, *Intern. Journ. Math. Math. Sci.*, **2006**, Article ID 81615, 1-13.
28. M. Elin, M. Levenshtein, D. Shoikhet and R. Tauraso, Rigidity of holomorphic generators and one-parameter semigroups, *Dynam. Systems Appl.* **16** (2007), 251-266.
29. M. Elin, D. Shoikhet and L. Zalcman, A flower structure of backward flow invariant domains for semigroups, *C. R. Acad. Sci. Paris, Ser. I, Math.* **346** (2008), 293-296.
30. M. Elin, D. Shoikhet and L. Zalcman, A flower structure of backward flow invariant domains for semigroups, *Ann. Acad. Sci. Fenn. Math.*, **33** (2008), 3-34.
31. M. Elin, S. Reich and D. Shoikhet, A Julia-Carathéodory theorem for hyperbolically monotone mappings in the Hilbert ball, *Israel J. Math.*, **164** (2008), 397-411.
32. M. Elin, S. Reich, D. Shoikhet and F. Yacobzon, Asymptotic behavior of one-parameter semigroups and rigidity of holomorphic generators, *Compl. Anal. Oper. Theory*, **2** (2008), 55-86.
33. M. Elin, M. Levenshtein, S. Reich and D. Shoikhet, Two rigidity theorems for holomorphic generators of continuous semigroups, *J. Nonlinear Convex Anal.* **9** (2008), 59-64.
34. M. Elin, D. Shoikhet and L. Zalcman, Controlled approximation for some classes of holomorphic functions, *Complex analysis and Dynamical Systems III*, 63-92, *Contemp. Math.* **455**, Amer. Math. Soc., Providence, RI, 2008.
35. M. Elin, M. Levenshtein, S. Reich and D. Shoikhet, A rigidity theorem for holomorphic generators on the Hilbert ball, *Proc. AMS.* **136** (2008), 4313-4320.
36. M. Elin, D. Shoikhet and F. Yacobzon, Linearization models for parabolic type semigroups, *J. Nonlinear Convex Anal.* **9** (2008), 205-214.

37. M. Elin, M. Levenshtein, S. Reich and D. Shoikhet, Commuting semigroups of holomorphic mappings, *Math. Scand.* **103** (2008), 295-319.
38. M. Elin, D. Khavinson, S. Reich and D. Shoikhet, Linearization models for parabolic dynamical systems via Abel's functional equation, *Ann. Acad. Sci. Fenn. Math.* **35** (2010), 439-472.
39. M. Elin, Extension operators via semigroups, *Journ. Math. Anal. Appl.* **377** (2011) 239-250.
40. F. Bracci, M. Elin, and D. Shoikhet, Normal forms and linearization of holomorphic dilation type semigroups in several variables, *J. Nonlinear Convex Anal.* **12** (2011) 143-154.
41. M. Elin, D. Shoikhet and F. Yacobzon, A distortion theorem for functions convex in one direction, *Compl. Anal. Oper. Theory*, **5** (2011) 751-758.
42. M. Elin and D. Shoikhet, Boundary behavior and rigidity of semigroups of holomorphic mappings, *Analysis and Math. Physics*, **1** (2011) 241-258.
43. M. Elin, D. Shoikhet and N. Tarkhanov, Separation of boundary singularities for holomorphic generators, *Annali di Matematica Pura ed Applicata*, **190** (2011) 595-618.
44. L.A. Harris, D. Shoikhet, M. Elin and S. Reich, Dynamics of self-maps of the unit disk, Appendix H, in: D.S. Alexander, F. Iavernaro, A. Rosa, *Early Days in Complex Dynamics*, American Math. Soc. & London Math. Soc., 2011, 307-312.
45. V. Bolotnikov, M. Elin and D. Shoikhet, Inequalities for angular derivatives and boundary interpolation, *Analysis and Math. Physics*, **3** (2013), 63-96.
46. M. Elin, M. Levenshtein, S. Reich and D. Shoikhet, Some inequalities for the horosphere function and hyperbolically nonexpansive mappings on the Hilbert ball, *Journ. Math. Sci.*, **201** (2014), 595-613.
47. M. Elin and M. Levenshtein, Covering results and perturbed Roper-Suffridge operators, *Compl. Anal. Oper. Theory*, **8** (2014), 25-36.
48. F. Bracci, M. Elin and D. Shoikhet, Growth estimates for pseudo-dissipative holomorphic maps in Banach spaces, *J. Nonlinear Convex Anal.* **15** (2014), 191-198.
49. M. Elin and F. Jacobzon, Parabolic type semigroups: asymptotics and order of contact, *Anal. Math. Phys.* **4** (2014), 157-185.
50. V. Bolotnikov, M. Elin and D. Shoikhet, Boundary asymptotic expansions of analytic self-mappings of the unit disk, *Ann. Scuola Normale Superiore Pisa (5)*, **15** (2016), 399-433.
51. M. Elin and F. Jacobzon, Analyticity of semigroups on the right half-plane, *J. Math. Anal. Appl.* **448** (2017), 750-766.
52. M. Elin, D. Shoikhet and N. Tuneski, Parametric embedding of starlike functions, *Compl. Anal. Oper. Theory*, **11** (2017), 1543-1556.
53. M. Elin, D. Shoikhet and N. Tarkhanov, Analytic semigroups of holomorphic mappings and composition operators, *Comput. Methods Funct. Theory*, **18** (2018), 269-294.
54. F. Bracci, M. D. Contreras, S. Díaz-Madrigal, M. Elin and D. Shoikhet, Filtrations of infinitesimal generators, *Funct. Approx. Comment. Math.* **59** (2018), 99-115.
55. M. Elin, F. Jacobzon and G. Katriel, Noncommutative holomorphic semicycles, *Michigan Math. J.* **68** (2019), 505-526.
56. M. Elin, F. Jacobzon and G. Katriel, Continuous and holomorphic semicycles in Banach spaces, *Journ. Evolution Eq.* **19** (2019), 1199-1221.
57. M. Elin, F. Jacobzon and G. Katriel, Linearization of holomorphic semicycles in Banach spaces, *Riv. Math. Univ. Parma*, **10** (2019), 145-164.

58. M. Elin and D. Shoikhet, A sharpened form of the inverse function theorem, *Annales UMCS*, **73** (2020), 59-67.
59. M. Elin, D. Shoikhet, and T. Sugawa, Geometric properties of the nonlinear resolvent of holomorphic generators, *J. Math. Anal. Appl.* **483** (2020), No. 123614.
60. M. Elin and F. Jacobzon, Coefficient body for nonlinear resolvent, *Annales UMCS*, **73** (2020), 45-57.
61. M. Elin, D. Shoikhet and N. Tuneski, Radii problems for starlike functions and semigroup generators, *Comput. Methods Funct. Theory*, **20** (2020), 297-318.
62. M. Elin, Differentiability of semigroups of Lipschitz or smooth mappings, *Analysis Math. Physics*, **11**:33 (2021), DOI 10.1007/s13324-020-00472-2.
63. M. Elin, Note on the differentiability of strongly continuous semicycles, *Revue Roumaine de Mathém. Pures Appl.* **66** (2021), 687–694.
64. M. Elin and F. Jacobzon, Families of inverse functions: coefficient bodies and the Fekete-Szegő problem, *Mediterr. J. Math.* **19** (2022), paper No. 93, <https://doi.org/10.1007/s00009-022-02017-2>
65. M. Elin and F. Jacobzon, Note on the Fekete-Szegő problem for spirallike mappings in Banach spaces, *Results Math.*, **77** (2022), paper No. 137, <https://doi.org/10.1007/s00025-022-01672-x>.
66. M. Elin and F. Jacobzon, The Fekete-Szegő problem for spirallike mappings and non-linear resolvents in Banach spaces, *Stud. Univ. Babeş-Bolyai Math.* **67** (2022), 329-344.
67. M. Elin, F. Jacobzon and N. Tuneski, The Fekete-Szegő functional and filtration of generators, *Rend. Circ. Mat. Palermo Series 2*, **72** (2023), 2811-2829. DOI 10.1007/s12215-022-00824-w.
68. M. Elin and F. Jacobzon, Estimates on some functionals over non-linear resolvents, *Filomat*, **37** (2023), 797-808.
69. M. Elin, F. Jacobzon and D. Shoikhet, Filtration families of semigroup generators. The Fekete-Szegő problem, *Appl. Set-Valued Anal. Optim.* **6** (2024) 13-29.
70. M. Elin and F. Jacobzon, Nonlinear resolvents in the unit disk: geometry and dynamics, *Journ. Math. Sci.*, <https://doi.org/10.1007/s10958-024-07053-9>.
71. M. Elin and F. Jacobzon, Survey on filtrations (parametric embeddings) of infinitesimal generators, *Journ. Analysis*, DOI 10.1007/s41478-024-00754-z.

Conference Proceedings (refereed)

72. M. Elin, "Extension" of Szego kernels and generalization of linear convexity, XI All-Union school on operator theory on functional spaces, v.2, Chelyabinsk, 1986, p.43 (in Russian)
73. M. Elin, Some properties of linear convexity, "Complex Analysis and Mathematical Physics", Krasnoyarsk, 1987, p. 30 (in Russian).
74. M. Elin, On one type of convexity in multidimensional complex analysis, "Complex Analysis and Mathematical Physics", Krasnoyarsk, 1987, p.31 (in Russian)
75. M. Elin, Uniqueness sets for one class of entire functions, "Actual problems of complex analysis", Tashkent, 1989 (in Russian).
76. M. Elin and N. Kelberg, On integral means theorem, "Youth, Science and Third Thousand", Krasnoyarsk, 1996, pp. 24-25 (in Russian).
77. M. Elin, M. Levenshtein, S. Reich and D. Shoikhet, Rigidity results for holomorphic mappings on the unit disk, in: *Complex and Harmonic Analysis, Proceedings of the International Conference, Thessaloniki, 2006*, 93-110, DEStech Publications, Inc., 2007.

78. M. Elin, S. Reich, D. Shoikhet and F. Yacobzon, Rates of convergence of one-parameter semigroups with boundary Denjoy-Wolff fixed points, in: *Fixed Point Theory and its Applications, Proceedings of the Eighth International Conference, Chiang Mai, Thailand, 2007*, 43-58, Yokohama Publishers, 2008.

Books and Chapters in books

79. M. Elin and D. Shoikhet, Semigroups with boundary fixed points on the unit Hilbert ball and spirallike mappings, in: *Geometric Function Theory in Several Complex Variables*, 82-117, *World Sci. Publishing, River Edge, NJ*, 2004.

80. M. Elin and D. Shoikhet, Linearization Models for Complex Dynamical Systems. Topics in univalent functions, functions equations and semigroup theory, *Birkhäuser Basel*, 2010.

81. M. Elin, F. Jacobzon, M. Levenshtein and D. Shoikhet, The Schwarz Lemma. Rigidity and Dynamics, in: *Harmonic and Complex Analysis and Applications*, *Birkhäuser Basel*, 2014, 135-230.

82. M. Elin and D. Shoikhet, The radii problems for holomorphic mappings in J^* -algebras, in: *Noncommutative Analysis, Operator Theory and Applications*, 181-192, *Birkhauser, Cham*, 2016.

83. M. Elin, D. Shoikhet, and T. Sugawa, Filtration of semi-complete vector fields revisited, in: *Complex analysis and dynamical systems. New trends and open problems*, 93–102, Trends in Math., *Birkhäuser/Springer, Cham*, 2018.

84. M. Elin and D. Shoikhet, Fixed points of pseudo-contractive holomorphic mappings, in: *Geometric Function Theory in Higher Dimension*, 11-29, Springer INdAM Ser., **26**, *Springer, Cham*, 2018.

85. M. Elin, S. Reich and D. Shoikhet, Numerical Range of Holomorphic Mappings and Applications, *Birkhäuser/Springer*, 2019.

Unpublished Professional Reports (self-performed or supervised)

86. M. Elin, Biholomorphic mappings and semigroup theory in multidimensional complex spaces, Research project, 1999.

87. M. Elin and V. Khatskevich, Operator theory in spaces with indefinite metrics, holomorphic mappings in Banach spaces, and their application, Joint research project, 1999.

88. M. Elin and V. Khatskevich, Indefinite metric spaces theory, biholomorphisms and continuous semigroups in Banach spaces, Joint research project, 2003.

89. M. Elin and V. Khatskevich, Indefinite metrics, continuous semigroups and biholomorphic mappings in Banach spaces, Joint research project, 2004.

90. M. Agranovsky, M. Elin, Y. Kondratiev, O. Kutovyi, M. Levenshtein, T. Pasurek, M. Roekner and D. Shoikhet, Evolutional equations in spaces of holomorphic functions, Joint research project, 2011, 2013.

91. V. Bolotnikov, M. Elin and D. Shoikhet, Topics in interpolation and dynamical systems, Joint research project, 2012, 2014.

In preparation and submitted

92. M. Elin, Nonlinear resolvents: distortion and order of starlikeness - ready for submission
93. M. Elin, Non-linear resolvents of holomorphically accretive mappings - submitted
- M. Elin and F. Jacobzon, On the hypergeometric function and families of holomorphic functions - submitted
94. M. Elin and F. Jacobzon, Multidimensional analogs of the Fekete--Szegő functional - submitted
95. M. Elin, F. Jacobzon and G. Katriel, Generalization of semigroups of weighted composition operators – in preparation