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Curriculum Vitae

Date and place of birth: August 12, 1948; Cracow, Poland.

Academic Degrees

1970	B.Sc.	*summa cum laude*, Mathematics, Technion.
1973	D.Sc.	Mathematics, Technion.

Professional Experience

1973-75	Lecturer, Tel-Aviv University.
1975-77	L. E. Dickson Instructor, The University of Chicago.
1977-79	Assistant Professor, University of Southern California.
1979-84	Associate Professor, University of Southern California.
1984-85	Associate Professor, Technion.
1985-2016	Professor, Technion.
2016-present	Professor Emeritus, Technion.
1970-75	Mathematician, Israel Army (rank: Lieutenant).
Apr.1978, Aug.1980	Consultant, Mathematics Research Center, University of Wisconsin-Madison.
July 1978	Visiting Scientist, Applied Mathematics Division, Argonne National Laboratory.
Spring 1981	Visiting Associate Professor, University of California, Berkeley.
1983-84	Acting Chairman, Department of Mathematics, University of Southern California.
1986-87, 1990-92	Professor, University of Southern California.
Sept.1997, Fall 2003	Visiting Scholar, Rutgers University.
Winter 2004	Visiting Professor, University of California, Santa Barbara.
April-Sept. 2004	Visiting Professor, Tokyo Institute of Technology.
May-June 2010	Visiting Professor, UMCS.
1976-84, 1993-96	Research Grants, National Science Foundation.
1983-84	Research Grant, USC Faculty Research and Innovation Fund.
1987-91	Supercomputer Time Award, NSF and the San Diego Supercomputer Center.
1997-03, 2007-11	
2012-16, 2017-21	Research Grants, Israel Science Foundation.
Jan.1999-Dec.2001	Director, Institute of Advanced Studies in Mathematics and the Center for Mathematical Sciences at the Technion.
2001-2012	Technion Management Chair in Mathematics.
2012-2016	The Lord Leonard Wolfson Academic Chair.

Research Field

Nonlinear Analysis and Optimization Theory.

Teaching Experience

Undergraduate Courses

Calculus, Functional Analysis, Optimization, Ordinary Differential Equations, Partial Differential Equations, Probability, Real Functions, Set Theory.

Graduate Courses

Differential Equations in Banach Spaces, Dynamic Systems, Functional Analysis, Functional Analysis for Electrical Engineering, Harmonic Analysis, Integral Equations, Modern Analysis for Electrical Engineering, Nonlinear Analysis, Nonlinear Functional Analysis, Nonlinear Partial Differential Equations, Optimization Theory, Problems Workshop, Real and Complex Analysis.

Public Professional Activities

Member of the Editorial Board of the Following Journals:

- Dynamic Systems and Applications (1992-present)
- Communications in Applied Nonlinear Analysis (1994-present)
- Abstract and Applied Analysis (1996-present)
- Communications in Applied Analysis (1997-present)
- Nonlinear Analysis (1997-2014)
- Journal for Analysis and its Applications (1998-present)
- Nonlinear Analysis Forum (2000-present)
- Journal of Nonlinear and Convex Analysis (2000-present)
- Journal of Nonlinear Functional Analysis (2000-present)
- International Journal of Pure and Applied Mathematics (2002-present)
- Fixed Point Theory and Applications (2004-present)
- Journal of Inequalities and Applications (2005-present)
- Journal of Mathematics and Applications (2006-present)
- Journal of Fixed Point Theory and Applications (2007-present)
- Complex Analysis and Operator Theory (2007-present)
- Journal of Applied Analysis (2009-present)
- The Journal of Analysis (2009-present)
- Journal of Nonlinear Analysis and Optimization (2010-present)
- Israel Journal of Mathematics (2014-present)

Membership in Professional Societies

American Mathematical Society, Mathematical Association of America, Society for Industrial and Applied Mathematics, Israel Mathematical Union.

Graduate Students

M.M. Israel, Jr.	Ph.D., 1981 "Contributions to the theory of nonlinear semigroups and nonlinear evolution equations in Banach spaces".
D.S. Hulbert	Ph.D., 1983 "Asymptotic behavior of solutions to nonlinear Volterra integral equations in Banach spaces".
E.I. Poffald	Ph.D., 1984 "Second order differential equations associated with accretive operators in Banach spaces".
I. Shafrir	M.Sc., 1986 "On the asymptotic behavior of nonexpansive iterations in Banach spaces and in the Hilbert ball".
J.M. Dye	Ph.D., 1987 "Products of contractions".
I. Shafrir	D.Sc., 1990 "Operators in hyperbolic spaces".
Y.S. Lee	Ph.D., 1992 "Convergence of nonlinear algorithms".
E. Dreyman	M.Sc., 1996 "Products of projections in Hilbert space".
M. Souliman	M.Sc., 1997 "Parallel algorithms for convex feasibility problems".
M. Gabour	Ph.D., 2002 "Some methods for solving convex feasibility and optimization problems".
E. Masad	M.Sc., 2002 "Convergence of learning processes in uncertainty spaces".
S. Bartz	M.Sc., 2005 "On the subdifferential".
A. Goldvard	Ph.D., 2007 "Semigroups and geometric function theory in J^*-algebras".
E. Masad	Ph.D., 2008 "Skew products of topological flows and applications to nonlinear analysis".
M. Levenshtein	Ph.D., 2009 "Rigidity theory for holomorphic mappings".
A. Aleyner	Ph.D., 2009 "Iterative methods for solving convex feasibility problems".
A. Wallwater	M.Sc., 2009 "Almost convergence and a dual ergodic theorem for nonlinear semigroups in Banach spaces".
D. Reem	Ph.D., 2010 "Voronoi and zone diagrams".

A. Gibali	Ph.D., 2012 "Algorithms for solving monotone variational inequalities and applications".
S. Sabach	Ph.D., 2012 "Iterative methods for solving optimization problems".
S. Bartz	Ph.D., 2013 "On abstract convex antiderivatives in analysis and geometry".
L. Shemen	M. Sc., 2013. "Iterative methods for nonlinear problems".
W. Boulos	M. Sc., 2013. "Best approximations, farthest points, and porosity in Banach and hyperbolic spaces".
Z. Salinas	M. Sc., 2015 "Infinite products of operators".

LIST OF PUBLICATIONS

D.Sc. Thesis: On the fixed point theorems of Banach and Schauder, 1973.
Dissertation Abstracts International, Volume 34, No. 11, Ann Arbor, MI, 1974.

Papers in Journals

1. S. Reich, On the rational positive solutions of $m^n = n^m$ with $m > n$, *Amer. Math. Monthly* **75** (1968), 1104.
2. S. Reich, On mean value theorems, *Amer. Math. Monthly* **76** (1969), 70-73.
3. S. Reich, On Aitken's Δ^2-method, *Amer. Math. Monthly* **77** (1970), 283-284.
4. S. Reich, Squares in a triangle, *Math. Gaz.* **54** (1970), 145.
5. S. Reich, Two-dimensional lattices and convex domains, *Math. Mag.* **43** (1970), 219-220.
6. S. Reich, Nets and uniform continuity, *Delta* **2** (1-2) (1971), 20-23.
7. S. Reich, On an inequality for the perimeter of the orthic triangle, *Delta* **2** (3) (1971), 34-35.
8. S. Reich, Kannan's fixed point theorem, *Boll. Un. Mat. Ital.* **4** (1971), 1-11.
9. S. Reich, Schwarz differentiability and differentiability, *Math. Mag.* **44** (1971), 214-216.
10. S. Reich, On a problem in number theory, *Math. Mag.* **44** (1971), 277-278; **48** (1975), 49.
11. S. Reich, A fixed point theorem, *Atti Accad. Naz. Lincei* **51** (1971), 26-28.
12. S. Reich, A fixed point theorem in locally convex spaces, *Bull. Cal. Math. Soc.* **63** (1971), 199-200.
13. S. Reich, Another solution of an old problem of Pólya, *Amer. Math. Monthly* **78** (1971), 649-650.
14. S. Reich, Characteristic vectors of nonlinear operators, *Atti Accad. Naz. Lincei* **50** (1971), 682-685.
15. S. Reich, Fixed points of multi-valued functions, *Atti Accad. Naz. Lincei* **51** (1971), 32-35.
16. S. Reich, Fixed points in complete metric spaces, *Atti Accad. Naz. Lincei* **51** (1971), 270-273.
17. S. Reich, Some remarks concerning contraction mappings, *Canad. Math. Bull.* **14** (1971), 121-124.
18. S. Reich, A fixed point theorem for locally contractive multivalued functions, *Rev. Roumaine Math. Pures Appl.* **17** (1972), 569-572.

19. S. Reich, Some remarks on fixed point sets, *Delta* **3** (2) (1972), 38-43.

20. S. Reich, Fixed points in locally convex spaces, *Math. Z.* **125** (1972), 17-31.

21. S. Reich, Fixed points of contractive functions, *Boll. Un. Mat. Ital.* **5** (1972), 26-42.

22. S. Reich, Remarks on fixed points I, II, *Atti Accad. Naz. Lincei* **52** (1972), 689-697; **53** (1972), 250-254.

23. S. Reich, Fixed points via Toeplitz iteration, *Bull. Cal. Math. Soc.* **65** (1973), 203-207.

24. S. Reich, Fixed points of condensing functions, *J. Math. Anal. Appl.* **41** (1973), 460-467.

25. S. Reich, Fixed points of nonexpansive functions, *J. London Math. Soc.* **7** (1973), 5-10.

26. S. Reich, A remark on C_σ spaces, *Proc. Amer. Math. Soc.* **40** (1973), 215-216.

27. S. Reich, Asymptotic behavior of contractions in Banach spaces, *J. Math. Anal. Appl.* **44** (1973), 57-70.

28. S. Reich, Iterative solution of linear operator equations in Banach spaces, *Atti Accad. Naz. Lincei* **54** (1973), 551-554.

29. S. Reich, Extreme invariant operators, *Atti Accad. Naz. Lincei* **55** (1973), 31-36.

30. S. Reich, Quasi-cliques, *Delta* **4** (1) (1974), 26-28.

31. S. Reich, Asymptotic behavior of semigroups of nonlinear contractions in Hilbert spaces, *Atti Accad. Naz. Lincei* **56** (1974), 866-872.

32. S. Reich, Some fixed point problems, *Atti Accad. Naz. Lincei* **57** (1974), 194-198.

33. S. Reich, A Poincaré type coincidence theorem, *Amer. Math. Monthly* **81** (1974), 52-53.

34. S. Reich, Approximating zeros of accretive operators, *Proc. Amer. Math. Soc.* **51** (1975), 381-384.

35. S. Reich, Fixed point iterations of nonexpansive mappings, *Pacific J. Math* **60** (2) (1975), 195-198.

36. S. Reich, Minimal displacement of points under weakly inward pseudo-lipschitzian mappings, I, II, *Atti Accad. Naz. Lincei* **59** (1975) 40-44; **60** (1976), 95-96.

37. S. Reich, The fixed point property for nonexpansive mappings, I, II, *Amer. Math. Monthly* **83** (1976), 266-268; **87** (1980), 292-294.

38. S. Reich, Asymptotic behavior of semigroups of nonlinear contractions in Banach spaces, *J. Math. Anal. Appl.* **53** (1976), 277-290.

39. S. Reich, On fixed point theorems obtained from existence theorems for differential equations, *J. Math. Anal. Appl.* **54** (1976), 26-36.

40. S. Reich, A remark on set-valued mappings that satisfy the Leray-Schauder condition, I, II, *Atti Accad. Naz. Lincei* **61** (1976), 193-194; **66** (1979), 1-2.

41. S. Reich, A minimal displacement problem, *Comment. Math. Univ. St. Pauli* **26** (1977), 131-135.

42. S. Reich, Nonlinear evolution equations and nonlinear ergodic theorems, *Nonlinear Analysis* **1** (1977), 319-330.

43. S. Reich, Extension problems for accretive sets in Banach spaces, *J. Functional Analysis* **26** (1977), 378-395.

44. R. E. Bruck and S. Reich, Nonexpansive projections and resolvents of accretive operators in Banach spaces, *Houston J. Math.* **3** (1977), 459-470.

45. S. Reich, A remark on the minimum property, *Atti Accad. Naz. Lincei* **62** (1977), 740-741.

46. S. Reich, On infinite products of resolvents, *Atti Accad. Naz. Lincei* **63** (1977), 338-340.

47. S. Reich, A random fixed point theorem for set-valued mappings, *Atti Accad. Naz. Lincei* **64** (1978), 65-66.

48. S. Reich, Approximate selections, best appproximations, fixed points, and invariant sets, *J. Math. Anal. Appl.* **62** (1978), 104-113.

49. S. Reich, An iterative procedure for constructing zeros of accretive sets in Banach spaces, *Nonlinear Analysis* **2** (1978), 85-92.

50. J. B. Baillon, R. E. Bruck and S. Reich, On the asymptotic behavior of nonexpansive mappings and semigroups in Banach spaces, *Houston J. Math.* **4** (1978), 1-9.

51. S. Reich, Almost convergence and nonlinear ergodic theorems, *J. Approximation Theory* **24** (1978), 269-272.

52. S. Reich, Asymptotic behavior of resolvents in Banach spaces, *Atti Accad. Naz. Lincei* **67** (1979), 27-30.

53. S. Reich, A remark on a problem of Asplund, *Atti Accad. Naz. Lincei* **67** (1979), 204-205.

54. S. Reich, Weak convergence theorems for nonexpansive mappings in Banach spaces, *J. Math. Anal. Appl.* **67** (1979), 274-276.

55. S. Reich, Constructing zeros of accretive operators, I, II, *Applicable Analysis* **8** (1979), 349-352; **9** (1979), 159-163.

56. S. Reich, The range of sums of accretive and monotone operators, *J. Math. Anal. Appl.* **68** (1979), 310-317.

57. O. Nevanlinna and S. Reich, Strong convergence of contraction semigroups and of iterative methods for accretive operators in Banach spaces, Mathematics Research Center Report # 1856, 1978; *Israel J. Math.* **32** (1979), 44-58.

58. S. Reich, Fixed point theorems for set-valued mappings, *J. Math. Anal. Appl.* **69** (1979), 353-358.

59. S. Reich, A fixed point theorem for Fréchet spaces, *J. Math. Anal. Appl.* **78** (1980), 33-35.

60. S. Reich, Product formulas, nonlinear semigroups, and accretive operators, *J. Functional Analysis* **36** (1980), 147-168.

61. S. Reich, Strong convergence theorems for resolvents of accretive operators in Banach spaces, *J. Math. Anal. Appl.* **75** (1980), 287-292.

62. S. Reich, A solution to a problem on the asymptotic behavior of nonexpansive mappings and semigroups, *Proc. Japan Acad.* **56** (1980), 85-87.

63. R. E. Bruck and S. Reich, A general convergence principle in nonlinear functional analysis, *Nonlinear Analysis* **4** (1980), 939-950.

64. S. Reich, Convergence and approximation of nonlinear semigroups, *J. Math. Anal. Appl.* **76** (1980), 77-83.

65. H. G. Kaper, G. K. Leaf and S. Reich, Convergence of semigroups with an application to the Carleman equation, *Math. Meth. Appl. Sci.* **2** (1980), 303-308.

66. S. Reich and R. Torrejón, Zeros of accretive operators, *Comment. Math. Univ. Carolinae* **21** (1980), 619-625.

67. S. Reich, On the asymptotic behavior of nonlinear semigroups and the range of accretive operators, I, II, Mathematics Research Center Report #2198, 1981; *J. Math. Anal. Appl.* **79** (1981), 113-126; **87** (1982), 134-146.

68. M. M. Israel, Jr. and S. Reich, Asymptotic behavior of solutions of a nonlinear evolution equation, *J. Math. Anal. Appl.* **83** (1981), 43-53.

69. S. Reich, A nonlinear Hille-Yosida theorem in Banach spaces, *J. Math Anal. Appl.* **84** (1981), 1-5.

70. B. Calvert and S. Reich, A characterization of smooth Banach spaces, *Proc. Japan Acad.* **57** (1981), 450-453.

71. S. Reich, A characterization of nonlinear ϕ-accretive operators, *Manuscripta Math.* **36** (1981), 163-178.

72. R. E. Bruck and S. Reich, Accretive operators, Banach limits, and dual ergodic theorems, *Bull. Acad. Polon. Sci.* **29** (1981), 585-589.

73. R. E. Bruck, W. A. Kirk and S. Reich, Strong and weak convergence theorems for locally nonexpansive mappings in Banach spaces, *Nonlinear Analysis* **6** (1982), 151-155.

74. B. Calvert and S. Reich, A note on resolvent consistency, *Bull. Inst. Math. Acad. Sinica* **10** (1982), 61-67.

75. S. Reich, A complement to Trotter's product formula for nonlinear semigroups generated by the subdifferentials of convex functionals, *Proc. Japan Acad.* **58** (1982), 193-195.

76. K. Goebel and S. Reich, Iterating holomorphic self-mappings of the Hilbert ball, *Proc. Japan Acad.* **58** (1982), 349-352.

77. A. T. Plant and S. Reich, Nonlinear rotative semigroups, *Proc. Japan Acad.* **58** (1982), 398-401.

78. S. Reich, A note on the mean ergodic theorem for nonlinear semigroups, *J. Math. Anal. Appl.* **91** (1983), 547-551.

79. M. M. Israel, Jr. and S. Reich, Extension and selection problems for nonlinear semigroups in Banach spaces, *Math. Japonica* **28** (1983), 1-8.

80. S. Reich, The almost fixed point property for nonexpansive mappings, *Proc. Amer. Math. Soc.* **88** (1983), 44-46.

81. S. Reich, A limit theorem for projections, *Linear and Multilinear Algebra* **13** (1983), 281-290.

82. S. Reich, Solutions of two problems of H. Brezis, *J. Math. Anal. Appl.* **95** (1983), 243-250.

83. A. T. Plant and S. Reich, The asymptotics of nonexpansive iterations, *J. Functional Analysis* **54** (1983), 308-319.

84. S. Reich, New results concerning accretive oparators and nonlinear semigroups, *J. Math. Phys. Sci.* **18** (1984), 91-97.

85. D. S. Hulbert and S. Reich, Asymptotic behavior of solutions to nonlinear Volterra integral equations, *J. Math. Anal. Appl.* **104** (1984), 155-172.

86. S. Reich, Averaged mappings in the Hilbert ball, *J. Math. Anal. Appl.* **109** (1985), 199-206.

87. E. I. Poffald and S. Reich, An incomplete Cauchy problem, *J. Math. Anal. Appl.* **113** (1986), 514-543.

88. S. Reich, Admissible pairs and integral equations, *J. Math. Anal. Appl.* **121** (1987), 79-90.

89. S. Reich and I. Shafrir, The asymptotic behavior of firmly nonexpansive mappings, *Proc. Amer. Math. Soc.* **101** (1987), 246-250.

90. H. T. Banks, S. Reich and I. G. Rosen, Parameter estimation in nonlinear distributed systems - approximation theory and convergence results, *Appl. Math. Letters* **1** (1988), 211-216.

91. H. T. Banks, S. Reich and I. G. Rosen, An approximation theory for the identification of nonlinear distributed parameter systems, Lefschetz Center for Dynamical Systems Report #88-8, *SIAM J. Control and Optimization* **28** (1990), 552-569.

92. M. A. Khamsi, W. M. Kozlowski and S. Reich, Fixed point theory in modular function spaces, *Nonlinear Analysis* **14** (1990), 935-953.

93. S. Reich and I. Shafrir, Nonexpansive iterations in hyperbolic spaces, Technion Preprint Series, No. MT-854, 1989, *Nonlinear Analysis* **15** (1990), 537-558.

94. H. T. Banks, S. Reich and I. G. Rosen, Estimation of nonlinear damping in second order distributed parameter systems, ICASE Report #89-16, *Control - Theory and Advanced Technology* **6** (1990), 395-415.

95. M. A. Khamsi and S. Reich, Nonexpansive mappings and semigroups in hyperconvex spaces, *Math Japonica* **35** (1990), 467-471.

96. S. Aizicovici, S. O. Londen and S. Reich, Asymptotic behavior of solutions to a class of nonlinear Volterra equations, CMU Research Report No. 89-52, *Differential and Integral Equations* **3** (1990), 813-825.

97. J. Dye, M. A. Khamsi and S. Reich, Random products of contractions in Banach spaces, *Trans. Amer. Math. Soc.* **325** (1991), 87-99.

98. H. T. Banks, S. Reich and I. G. Rosen, Galerkin approximation for inverse problems for nonautonomous nonlinear distributed systems, ICASE Report #88-38, *Applied Math. and Optimization* **24** (1991), 233-256.

99. J. M. Dye and S. Reich, On the unrestricted iteration of projections in Hilbert space, CAMS Report #89-7, *J. Math. Anal. Appl.* **156** (1991), 101-119.

100. S. Reich, The asymptotic behavior of a class of nonlinear semigroups in the Hilbert ball, *J. Math. Anal. Appl.* **157** (1991), 237-242.

101. S. Reich and I. Shafrir, An existence theorem for a difference inclusion in general Banach spaces, CAMS Report #91-2, *J. Math. Anal. Appl.* **160** (1991), 406-412.

102. S. Reich, Approximating fixed points of holomorphic mappings, CAMS Report #91-4, *Math. Japonica* **37** (1992), 457-459.

103. J. M. Dye and S. Reich, Unrestricted iterations of nonexpansive mappings in Hilbert space, CAMS Report #91-3, *Nonlinear Analysis* **18** (1992), 199-207.

104. J. Borwein, S. Reich and I. Shafrir, Krasnoselskii-Mann iterations in normed spaces, *Canad. Math. Bull.* **35** (1992), 21-28.

105. J. M. Dye and S. Reich, Unrestricted iterations of nonexpansive mappings in Banach spaces, CAMS Report #91-14, *Nonlinear Analysis* **19** (1992), 983-992.

106. S. Aizicovici and S. Reich, Anti-periodic solutions to difference inclusions in Banach spaces, *Dynamic Systems and Applications* **1** (1992), 121-130.

107. T. Kuczumow, S. Reich and M. Schmidt, A fixed point property of ℓ_1-product spaces, *Proc. Amer. Math. Soc.* **119** (1993), 457-463.

108. S. Reich, The alternating algorithm of von Neumann in the Hilbert ball, *Dynamic Systems and Applications* **2** (1993), 21-26.

109. T. Kuczumow, S. Reich, M. Schmidt and A. Stachura, Strong asymptotic normal structure and fixed points in product spaces, *Nonlinear Analysis* **21** (1993), 501-515.

110. S. Aizicovici, S. Reich and I. G. Rosen, An approximation theory for the identification of nonlinear Volterra equations, CAMS Report #92-1, *Numerical Functional Analysis and Optimization* **14** (1993), 213-227.

111. R. E. Bruck, T. Kuczumow and S. Reich, Convergence of iterates of asymptotically nonexpansive mappings in Banach spaces with the uniform Opial property, *Colloquium Math.* **65** (1993), 169-179.

112. C. Mao, S. Reich and I. G. Rosen, Approximation in the identification of nonlinear degenerate distributed parameter systems, *Nonlinear Analysis* **22** (1994), 91-120.

113. T. Kuczumow, S. Reich, M. Schmidt and A. Stachura, The product retraction property for the c_0 -product of countably many metric spaces, *Math. Japonica* **39** (1994), 73-79.

114. T. Kuczumow, S. Reich and A. Stachura, Minimal displacement of points under holomorphic mappings and fixed point properties for unions of convex sets, CAMS Report #93-7, *Trans. Amer. Math. Soc.* **343** (1994), 575-586.

115. T. Kuczumow and S. Reich, Opial's property and James' quasi-reflexive spaces, *Comment. Math. Univ. Carolinae* **35** (1994), 283-289.

116. S. Reich, Approximating fixed points of nonexpansive mappings, *Panamerican Math. J.* **4** (2) (1994), 23-28.

117. Ya. I. Alber and S. Reich, An iterative method for solving a class of nonlinear operator equations in Banach spaces, *Panamerican Math. J.* **4** (2) (1994), 39-54.

118. S. Reich and H.-K. Xu, Nonlinear ergodic theory for semigroups of Lipschitzian mappings, *Comm. Appl. Nonlinear Analysis* **1** (3) (1994), 47-60.

119. Y. S. Lee and S. Reich, Convergence of nonlinear algorithms, CAMS Report #93-17, *J. Korean Math. Soc.* **32** (1995), 115-139.

120. Y. S. Lee and S. Reich, Convergence of accretive operators and nonlinear semigroups, CAMS Report #93-8, *Comm. Appl. Nonlinear Analysis* **2** (1) (1995), 11-46.

121. V. Khatskevich, S. Reich and D. Shoikhet, Fixed point theorems for holomorphic mappings and operator theory in indefinite metric spaces, Technion Preprint Series No. MT-1000, 1994, *Integral Equations Operator Theory* **22** (1995), 305-316.

122. V. Khatskevich, S. Reich and D. Shoikhet, A global implicit function theorem and fixed point theorems for holomorphic mappings and semigroups (an announcement), *Doklady Akademii Nauk* **347** (1996), 743-745.

123. J. M. Dye, T. Kuczumow, P.-K. Lin and S. Reich, Convergence of unrestricted products of nonexpansive mappings in spaces with the Opial property, *Nonlinear Analysis* **26** (1996), 767-773.

124. V. Khatskevich, S. Reich and D. Shoikhet, Global implicit function and fixed point theorems for holomorphic mappings and semigroups, Technion Preprint Series No. MT-993, 1994, *Complex Variables* **28** (1996), 347-356.

125. S. Reich and D. Shoikhet, Generation theory for semigroups of holomorphic mappings, *Abstract and Applied Analysis* **1** (1996), 1-44.

126. Y. Censor and S. Reich, Iterations of paracontractions and firmly nonexpansive operators with applications to feasibility and optimization, Technion Preprint Series, No. MT-1005, 1995, *Optimization* **37** (1996), 323-339.

127. L. Aizenberg, S. Reich and D. Shoikhet, One-sided estimates for the existence of null points of holomorphic mappings in Banach spaces, *J. Math. Anal. Appl.* **203** (1996), 38-54.

128. D. Butnariu, Y. Censor and S. Reich, Iterative averaging of entropic projections for solving stochastic convex feasibility problems, Technion Preprint Series No. MT-1010, 1995, *Computational Optimization and Applications* **8** (1997), 21-39.

129. V. Khatskevich, S. Reich and D. Shoikhet, Complex dynamical systems on bounded symmetric domains, *Electronic J. Differential Equations* **1997** (19) (1997), 1-9.

130. S. Reich and D. Shoikhet, Semigroups and generators on convex domains with the hyperbolic metric, *Atti. Accad. Naz. Lincei* **8** (1997), 231-250.

131. S. Reich and D. Shoikhet, Results and conjectures in holomorphic fixed point theory, *Nonlinear Analysis* **30** (1997), 3529-3538.

132. V. Khatskevich, D. Shoikhet and S. Reich, Semi-complete vector fields on homogeneous open balls in Banach spaces, *Ann. Univ. Mariae Curie–Sklodowska* **51** (1997), 143-148.

133. T. Kuczumov and S. Reich, An application of Opial's modulus to the fixed point theory of semigroups of Lipschitzian mappings, *Ann. Univ. Mariae Curie–Sklodowska* **51** (1997), 185-192.

134. S. Reich and D. Shoikhet, The Denjoy-Wolff theorem, *Ann. Univ. Mariae Curie–Sklodowska* **51** (1997), 219-240.

135. V. Khatskevich, S. Reich and D. Shoikhet, Asymptotic behavior of solutions of evolution equations and the construction of holomorphic retractions, *Math. Nachrichten* **189** (1998), 171-178.

136. M. Böhm, M. A. Demetriou, S. Reich and I. G. Rosen, Model reference adaptive control of distributed parameter systems, *SIAM J. Control and Optimization* **36** (1998), 33-81.

137. S. Reich and D. Shoikhet, Averages of holomorphic mappings and holomorphic retractions on complex hyperbolic domains, *Studia Math.* **130** (1998), 231-244.

138. S. Reich and D. Shoikhet, A characterization of holomorphic generators on the Cartesian product of Hilbert balls, *Taiwanese J. Math.* **2** (1998), 383-396.

139. Y. Censor and S. Reich, The Dykstra algorithm with Bregman projections, *Comm. Applied Analysis* **2** (1998), 407-419.

140. S. Reich and D. Shoikhet, Metric domains, holomorphic mappings and nonlinear semigroups, *Abstract and Applied Analysis* **3** (1998), 203-228.

141. A. S. Ackleh, R. R. Ferdinand and S. Reich, Numerical studies of parameter estimation techniques for nonlinear evolution equations, *Kybernetika* **34** (1998), 693-712.

142. M. Budzynska, T. Kuczumow and S. Reich, Uniform asymptotic normal structure, the uniform semi-Opial property, and fixed points of asymptotically regular uniformly Lipschitzian semigroups, Parts I and II, *Abstract and Applied Analysis* **3** (1998), 133-151; 247-263.

143. A. S. Ackleh and S. Reich, Parameter estimation in nonlinear evolution equations, *Numerical Functional Analysis and Optimization* **19** (1998), 933-947; **20** (1999), 1003-1004.

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3. Y. Censor and S. Reich (Editors), *Recent Developments in Optimization Theory and Nonlinear Analysis*, Contemporary Math., vol. 204, AMS, Providence, RI, 1997.

4. A. Ioffe, S. Reich and I. Shafrir (Editors), *Calculus of Variations and Differential Equations*, CRC Press, Boca Raton, FL, 1999.

5. A. Ioffe, S. Reich and I. Shafrir (Editors), *Calculus of Variations and Optimal Control*, CRC Press, Boca Raton, FL, 1999.

6. D. Butnariu, Y. Censor and S. Reich (Editors), *Inherently Parallel Algorithms in Feasibility and Optimization and their Applications*, Elsevier, Amsterdam, 2001.

7. S. Reich (Editor), *Proceedings of the International Conference on Fixed-Point Theory and its Applications*, Hindawi Publishing Corporation, Cairo, 2003.

8. S. Reich and D. Shoikhet, *Nonlinear Semigroups, Fixed Points, and Geometry of Domains in Banach Spaces*, Imperial College Press, London, 2005.

9. E. Matoušková, S. Reich and A. Zaslavski (Editors), *Proceeding of the International Workshop on Small Sets in Analysis*, Hindawi Publishing Corporation, New York, 2005.

10. J. Jachymski and S. Reich (Editors), *Fixed Point Theory and its Applications*, Banach Center Publications, vol. 77, Polish Academy of Sciences, Warsaw, 2007.

11. M. Agranovsky, D. Bshouty, L. Karp, S. Reich, D. Shoikhet and L. Zalcman (Editors), *Complex Analysis and Dynamical Systems III*, Contemporary Mathematics, vol. 455, Amer. Math. Soc., Providence, RI, 2008.

12. C. C. Cotta, S. Reich, R. Schaefer and A. Ligeza (Editors), *Knowledge-Driven Computing. Knowledge Engineering and Intelligent Computations*, Studies in Computational Intelligence, vol. 102, Springer, Berlin, 2008.

13. M. Agranovsky, M. Ben-Artzi, G. Galloway, L. Karp, S. Reich, D. Shoikhet, G. Weinstein and L. Zalcman (Editors), *Complex Analysis and Dynamical Systems IV*, Part 1, Function Theory and Optimization, Contemporary Mathematics, vol. 553, Amer. Math. Soc., Providence, RI, 2011,

14. M. Agranovsky, M. Ben-Artzi, G. Galloway, L. Karp, S. Reich, D. Shoikhet, G. Weinstein and L. Zalcman (Editors), *Complex Analysis and Dynamical Systems IV*, Part 2, General Relativity, Geometry, and PDE, Contemporary Mathematics, vol. 554, Amer. Math. Soc., Providence, RI, 2011.

15. S. Reich and A. J. Zaslavski (Editors), *Optimization Theory and Related Topics*, Contemporary Mathematics, vol. 568, Amer. Math. Soc., Providence, RI, 2012.

16. M. Agranovsky, M. Ben-Artzi, G. Galloway, L. Karp, V. Maz'ya, S. Reich, D. Shoikhet, G. Weinstein and L. Zalcman (Editors), *Complex Analysis and Dynamical Systems V*, Contemporary Mathematics, vol. 591, Amer. Math. Soc., Providence, RI, 2013.

17. S. Reich and A. J. Zaslavski, *Genericity in Nonlinear Analysis*, Springer, New York, 2014.

18. S. Reich and A. J. Zaslavski (Editors), *Infinite Products of Operators and Their Applications*, Contemporary Mathematics, vol. 636, Amer. Math. Soc., Providence, RI, 2015.

19. M. Agranovsky, M. Ben-Artzi, G. Galloway, L. Karp, D. Khavinson, S. Reich, G. Weinstein and L. Zalcman (Editors), *Complex Analysis and Dynamical Systems VI*, Part 1, Contemporary Mathematics, vol. 653, Amer. Math. Soc., Providence, RI, 2016.

20. B. S. Mordukhovich, S. Reich and A. J. Zaslavski (Editors), *Nonlinear Analysis and Optimization*, Contemporary Mathematics, vol. 659, Amer. Math. Soc., Providence, RI, 2016.

Book Review

1. S. Reich, Geometry of Banach spaces, duality mappings and nonlinear problems, *Bull. Amer. Math. Soc.* **26** (1992), 367-370.

Research Reports

1. S. Reich, Some problems in nonlinear functional analysis, The Altgeld book 1975/76, University of Illinois Functional Analysis Seminar, pp. xii.1-xii.18.

2. S. Reich, On the equivalence between resolvent consistency and convergence for nonlinear quasi-contractive algorithms, Argonne National Laboratory Report #79-53, 1979.

3. S. Reich, Nonlinear ergodic theory in Banach spaces, Argonne National Laboratory Report #79-69, 1979.

4. S. Reich and Y. Sternfeld, Some non-compact fixed point spaces, Longhorn Notes, Texas Functional Analysis Seminar, 1983-84, pp. 151-159.

5. J. M. Dye, T. Kuczumow and S. Reich, The random product of two nonexpansive mappings in spaces with the Opial property, Technion Preprint Series, No. MT-982, 1993.

Invited Talks at Conferences

1. International Conference on Nonlinear Systems and Applications, July 1976.
2. Conference on Nonlinear Equations in Abstract Spaces, June 1977.
3. AMS Special Session on Nonlinear Analysis (San Francisco, CA), April 1978.
4. Conference on Applied Nonlinear Analysis (Arlington, Texas), April 1978.
5. NSF Conference on Nonlinear Analysis (Fort Collins, CO), August 1978.
6. AMS Special Session on Differential Equations (Claremont, CA), October 1978.
7. Conference Commemorating Einar Hille's 85th Birthday, January 1980.
8. International Conference on Nonlinear Phenomena in Mathematical Sciences, June 1980.
9. AMS Special Session on Current Trends in Nonlinear Analysis (Ann Arbor, MI), August 1980.
10. AMS Special Session on Convexity in Functional Analysis (Santa Barbara), November 1981.
11. AMS Special Session on Nonexapnsive Mappings (Cincinnati, Ohio), January 1982.
12. Conference on Nonlinear Differential Equations (Arlington, Texas), June 1982.
13. AMS Special Session on Fixed Point Theory (Toronto, Ontario, Canada), August 1982.
14. AMS Special Session on Monotonicity Methods in Differential Equations (Denver, CO), January 1983.
15. AMS Special Session on Nonlinear Functional Analysis (Norman, OK), March 1983.
16. AMS Special Session on Nonlinear Functional Analysis, July 1983.
17. AMS Special Session on Volterra Integral and Integro-Differential Equations (Evanston, Illinois), November 1983.
18. International Conference on Nonlinear Analysis and Applications, July 1986.
19. Seminar on Fixed Point Theory and its Applications (ICM, Berkeley), August 1986.
20. Symposium on Nonlinear Semigroups (Washington, DC), August 1987.
21. AMS Special Session on Geometric Inequalities (Orono, Maine), August 1991.
22. Workshop on Set-Valued Analysis (University of California, Davis), May 1992.
23. Third IEEE Mediterranean Symposium (Limassol, Cyprus), July 1995.
24. Workshop on Fixed Point Theory (Seville, Spain), September 1995.
25. Fourth IEEE Mediterranean Symposium (Chania, Crete), June 1996.
26. Second World Congress of Nonlinear Analysts (Athens, Greece), August 1996.

27. Workshop on Fixed Point Theory (Kazimierz Dolny, Poland), June 1997.
28. Fifth IEEE Mediterranean Symposium (Paphos, Cyprus), July 1997.
29. Workshop on the Calculus of Variations and Optimal Control (Oberwolfach, Germany), November 1997.
30. Sixth IEEE Mediterranean Symposium (Alghero, Sardinia), June 1998.
31. International Conference on Operator Semigroups and Applications (Newport Beach, CA), December 1998.
32. Seventh Mediterranean Conference on Control and Automation (Haifa, Israel), June 1999.
33. Second Symposium on Nonlinear Analysis (Toruń, Poland), September 1999.
34. Third World Congress of Nonlinear Analysts (Catania, Sicily), July 2000.
35. International Conference on Mathematics and Mathematics Education (Bethlehem), August 2000.
36. International Conference on Nonlinear Analysis and Convex Analysis (Hirosaki, Japan), August 2001.
37. Tenth IEEE Mediterranean Conference on Control and Automation (Lisboa, Portugal), July 2002.
38. Geometric Methods in Analysis and Probability, Erwin Schrödinger Institute (Vienna, Austria), May 2005.
39. International Conference on Fixed Point Theory and its Applications (Będlewo, Poland), August 2005.
40. Mini-Workshop on Open Problems in Geometric Function Theory (Karmiel, Israel), August 2005.
41. Computer Methods and Systems (Cracow, Poland), November 2005.
42. Analysis Seminar (Salzburg, Austria), May 2006.
43. International Conference on Topological Methods, Differential Equations and Dynamical Systems (Firenze, Italy), June 2007.
44. International Conference on Nonlinear Operators, Differential Equations and Applications (Cluj-Napoca, Romania), July 2007.
45. Conference on Functional Analysis and Optimization (Będlewo, Poland), September 2007.
46. Workshop on Holomorphic Iteration, Semigroups, and Loewner Chains (Rome, Italy), September 2008.
47. International Conference on Nonlinear Analysis and Convex Analysis (Tokyo, Japan), March 2009.
48. A Day of Operator Theory (Beer-Sheva, Israel), January 2010.

49. Recent Advances in Nonlinear Evolutionary Equations and Analysis of Multi-Scale Phenomena (Rehovot, Israel), July 2010.
50. Joint Meeting of the Polish Mathematical Society and the Israel Mathematical Union (Lódz, Poland), September 2011.
51. Fixed Point Theory Workshop (Los Gallos, Spain), January 2012.
52. Topology, Fixed Points and Differential Inclusions (Rome, Italy), October 2012.
53. Workshop on Projection Methods in Feasibility, Superiorization and Optimization (University of Haifa, Israel), December 2013.
54. Operator Theory (Karmiel, Israel), February 2014.
55. Joint IMU-AMS Meeting (Tel Aviv, Israel), June 2014.
56. Continuous Optimization: Challenges and Applications (Haifa, Israel), September 2016.

Other Invited Lectures

1. The Hebrew University of Jerusalem, December 1974.
2. University of Cincinnati, January 1976.
3. University of Iowa, March 1976.
4. Rutgers University, March 1976
5. Northern Illinois University, April 1976.
6. University of Illinois at Urbana-Champaign, April 1976.
7. University of Delaware, December 1976.
8. University of Kentucky, February 1977.
9. North Carolina State University, February 1977.
10. Vanderbilt University, February 1977.
11. College of William and Mary, October 1977.
12. University of Wisconsin-Madison, April 1978.
13. University of Chicago, April 1978.
14. Claremont Graduate School, May 1978.
15. Argonne National Laboratory, July 1978.
16. California Institute of Technology, November 1978.
17. University of California, San Diego, January 1979.
18. University of California, Santa Barbara, April 1979.

19. Southern California Functional Analysis Seminar, January 1980.
20. University of California, Los Angeles, February 1980.
21. Claremont Applied Mathematics Seminar, April 1980.
22. University of California, Riverside, May 1980.
23. Argonne National Laboratory, August 1980.
24. Lefschetz Center of Dynamical Systems (Brown University), October 1980.
25. University of California, Berkeley (Functional Analysis Colloquium), April 1081.
26. University of California, Berkeley (Partial Differential Equations Seminar), April 1981.
27. Stanford University, May 1981.
28. University of California, Davis, June 1981.
29. University of Chicago, November 1983.
30. French-Israeli Mathematical Symposium, March 1985.
31. University of California, Los Angeles (Colloquium), December 1986.
32. University of California, Los Angeles (Seminar), February 1987.
33. University of Haifa (Colloquium), August 1987.
34. Ben-Gurion of the Negev (Colloquium), December 1988.
35. U.S. – Israel Binational Workshop on Optimization and Nonlinear Analysis, March 1990.
36. Rutgers University (New Brunswick, NJ), May 1991.
37. Ohio University (Athens, OH), May 1991.
38. Ben-Gurion University of the Negev (EE Department), December 1992.
39. Rutgers University (New Brunswick, NJ), September 1997.
40. Ohio University (Athens, OH), October 1997.
41. University of Florence (Florence, Italy), October 1998.
42. University of Udine (Udine, Italy), October 1998.
43. University of California, Irvine, December 1998.
44. University of Malta (Msida, Malta), July 2000.
45. University of Seville (Seville, Spain), February 2001.
46. Tokyo Institute of Technology (Tokyo, Japan), July 2001.
47. Kyoto University (Kyoto, Japan), August 2001.

48. SISSA (Trieste, Italy), October 2001.
49. University of Valencia (Valencia, Spain), July 2002.
50. Weizmann Institute of Science (Rehovot, Israel), April 2003.
51. Czech Academy of Sciences (Prague, Czech Republic), April 2003.
52. Rutgers University (New Brunswick, NJ), November 2003.
53. UCLA (Los Angeles, CA), March 2004.
54. Yokohama National University (Yokohama, Japan), August 2004.
55. Chuo University (Tokyo, Japan), August 2004.
56. Johannes Kepler University (Linz, Austria), April 2005.
57. UCLA (Los Angeles, CA), April 2008.
58. University of Southern California (Los Angeles, CA), May 2008.
59. University of Haifa (Colloquium), June 2008.
60. Technical University of Lódz (Lódz, Poland), October 2008.
61. University of Valencia (Valencia, Spain), February 2009.
62. Stanford University, March 2010.
63. UMCS (Lublin, Poland), May 2010.
64. Naval Postgraduate School (Monterey, CA), April 2012.
65. Stanford University, April 2012.
66. Naval Postgraduate School (Monterey, CA), February 2013.
67. Stanford University, March 2013
68. Yale University, September 2014

Co-Organizer of Conferences

- US–Israel Binational Science Foundation Workshop on Optimization and Nonlinear Analysis, Haifa, March 1990.
- Special Session on Optimization Theory and Nonlinear Analysis, Joint AMS–IMU Meeting, Jerusalem, May 1995.
- International Conference on the Calculus of Variations, Haifa, March 1998.
- Israel Science Foundation Research Workshop on Inherently Parallel Algorithms in Feasibility and Optimization and their Applications, Haifa, March 2000.
- Fixed Point Theory and its Applications, Haifa, June 2001.

- Small Sets in Analysis, Haifa, June 2003.
- Optimization Theory and Related Topics, Haifa, January 2010.
- ISF Research Workshop on Infinite Products of Operators and Their Applications, Haifa, 2012.
- Workshop on Nonlinear Analysis and Optimization, Haifa, 2014.
- German-Israeli Research Workshop on Optimization, Haifa, 2017.

Special Professional Activities

Referee for the Following Professional Journals and Foundations:

American Mathematical Monthly, Canadian Mathematical Bulletin, Delta, Mathematical Theory, Israel Journal of Mathematics, Journal of Differential Equations, Proc. Amer. Math. Soc., Nonlinear Analysis, J. Australian Math. Soc., L'Enseignement Mathematique, Canadian Journal of Mathematics, National Science Foundation (Modern Analysis, Classical Analysis, Applied Mathematics and International Programs), J. Math. Anal. Appl., Questiones Math., Glasnik Mat., U.S. Dept. of Energy, Numerical Functional Analysis and Optimization, Mathematical Chronicle, Pacific J. Math., Lecture Notes in Math. (Springer), Prentice-Hall, U.S. Army Research Office, Trans. Amer. Math. Soc., J. Functional Analysis, J. Approximation Theory, Arch. Math., Houston J. Math., SIAM J. Math. Anal., J. Math. Soc. Japan, U.S. – Israel Binational Science Foundation, NSERC of Canada, Rocky Mountain J. Math., Contemporary Math., Israel Science Foundation, J. Amer. Math. Soc., International Journal of Mathematics and Mathematical Sciences, Marcel Dekker, Indian J. of Pure and Applied Mathematics, Mathematische Annalen, Linear and Multilinear Algebra, Proceedings of the Edinburgh Mathematical Society, Journal of Optimization Theory and Applications, Dynamic Systems and Applications, Studia Mathematics, Journal of the European Mathematical Scoiety, Revista de la Real Academia de Ciencias Exactas, Fisicas y Naturales, Algorithms, J. Anal. Math., Bulletin of the Korean Mathematical Society, Communications of the Korean Mathematical Society, C. R. Acad. Sci. Paris.

Reviewer for the Following Professional Journals:

Mathematical Reviews, Zentralblatt für Mathematik.