

CURRICULUM VITAE

April 15, 2005

Name: Apostolos HADJIDIMOS
Date and Place of Birth: 20 January 1935 — Alli Meria, Volos, Greece
Nationality: Greek
Marital Status: Married, two daughters
Permanent Address: 219 Lordou Vyronos Street, GR-382 21 Volos, Greece
(and 10 G. Kavvou Street, GR-714 09 Heraklion, Greece)

STUDIES, DEGREES AND CAREER:

1946–52	High School, Volos, Greece
1949–53	Technical School (College), Volos
1952	Graduation from Evening High School
1952–56	Undergraduate Mathematics Student, University of Athens, Athens, Greece
1953	Diploma in Mechanical and Electrical Engineering from Technical School (College), Volos, Greece
1956	B.Sc. in Mathematics from the University of Athens. (Grade: “very good”, 8 2/8 out of 10)
1956–57, 59–62	Mathematics Teacher in High Schools, Volos, Greece
1957–59	Military Service, Sublieutenant of Artillery
1962–66	Assistant Lecturer in Geometry, University of Athens
1964–66, 70–72	Computer Programmer and Analyst, Doxiadis Associates, Consultants on Development and Ekistics, Athens
1966–68	Postgraduate Student (Grantee of the Greek Ministry of Coordination and partially supported by Doxiadis Associates), University of Liverpool, Liverpool, England, U.K.
1968	Ph.D. in Numerical Analysis from the University of Liverpool
1968–70	Lecturer in Numerical Analysis, The New University of Ulster, Coleraine, Northern Ireland, U.K.
1972–85	Professor of Numerical Analysis, University of Ioannina, Ioannina, Greece
February 1985–	Visiting Researcher, Department of Mathematics, University of Ioannina, Ioannina, Greece
December 1985–	Professor Emeritus of the University of Ioannina
1978 (6 months):	Visiting Professor of Numerical Analysis, University of Loughborough, Loughborough, England, U.K. (Research Collaboration with Professor David J. Evans)

1984 (Fall Semester)	Visiting Scholar, Institute for Computational Mathematics, Kent State University, Kent, Ohio, U.S.A. (Research collaboration with Professor Richard S. Varga and Dr. Li Xie-Zhang from People's Republic of China)
1987 (Spring Semester)	Visiting Professor, Department of Mathematics, University of Connecticut, Storrs, Connecticut, U.S.A. (Research collaboration with Professor Michael Neumann)
1987–90 (Academic Years)	Visiting Professor, Department of Computer Sciences, Purdue University, West Lafayette, Indiana, U.S.A. (Research collaboration with Professors John R. Rice, Elias N. Houstis and Emmanuel A. Vavalis)
1990–1998	Coordinator of Instruction I (address, same as above)
1996–1999 (Academic Years)	Visiting Professor, Department of Mathematics, University of Crete, Heraklion, Greece.
1999–2001	Adjunct Professor, Department of Computer Sciences, Purdue University, West Lafayette, Indiana, U.S.A.
1999–2002	Professor, Department of Mathematics, University of Crete, Heraklion, Greece.
2001 (Spring Semester)	Visiting Professor, Department of Mathematics and Statistics, University of Cyprus, Nicosia, Cyprus. (Research collaboration with Professor Nikolaos Stylianopoulos)
2002–2003 (Academic Year)	Visiting Professor, Department of Mathematics and Statistics, University of Cyprus, Nicosia, Cyprus. (Research collaboration with Professor Nikolaos Stylianopoulos)
April 2003– 2003–	Professor Emeritus of the University of Crete. Visiting Professor, Department of Mathematics, University of Crete, Heraklion, Greece.

Languages Greek, English, French (fair)

Publications (see attached sheets)

Other Scientific Activities

- i) Author of α) Lecture Notes in Computer Programming (FORTRAN IV and ALGOL 60) and Numerical Analysis β) Three University Textbooks in Numerical Analysis γ) Lecture Notes in Numerical Linear Algebra (with V. Dougalis and D. Noutsos) (all in Greek).
- ii) Author or Coauthor of over 120 original research papers in English, over 100 of which have already appeared in international refereed mathematics and computing journals, proceedings of conferences and books.
- iii) Participant in numerous International Conferences.

- iv) Invited Speaker in Conferences, Symposia, Colloquia, Seminars, Workshops, etc. (Greece, U.K., U.S.A., Spain, Belgium, Canada, Japan, Portugal, Cyprus, Brazil, Czech Republic).
- v) Invited for a few-day-research-collaboration (Greece, U.K., U.S.A., Portugal, Cyprus, Japan).
- vi) Member of Scientific Committees for International Conferences.
- vii) α) Organizer of a SIAM Minisymposium on “Iterative Methods for the Solution of Linear Algebraic Systems”, Madison, Wisconsin, U.S.A. (May 1988). β) Co-organizer of a HERMIS '94 Minisymposium on “Iterative Methods for the Solution of Linear Algebraic Systems” (September 1994). γ) Co-organizer of a HERMIS '96 Minisymposium on “Iterative Solution of Linear Systems of Algebraic Equations” (September 1996). δ) Co-organizer of a HERCMA '98 Minisymposium on “Iterative Solution of Linear Systems of Algebraic Equations” (September 1998). ϵ) Co-organizer of the “5th IMACS Conference on Iterative Methods in Scientific Computing”, Heraklion, Greece (May 2001).
- viii) Member of Editorial Boards: α) Bulletin of the Greek Mathematical Society (1974–75), (1977–78) and (2002–), β) International Journal of Computer Mathematics (1979–2000), γ) Journal of Computational and Applied Mathematics (1983–), δ) Journal of Numerical Linear Algebra With Applications (1992–1996), ϵ) Computer Mathematics and Its Applications (1994 or 1995–).
- ix) Member of the Technical Committee of the IMACS (International Association for Mathematics and Computers in Simulation) for Computational Linear Algebra.
- x) α) Guest Editor of the Special Issue of the Journal of Computational and Applied Mathematics, “Iterative Methods for Solving Linear Systems of Algebraic Equations”, Journal of Computational and Applied Mathematics, Vol. 24, Nos. 1 & 2 (1988). (Published also in book form, under the same title, by North Holland, Amsterdam, 1988.) β) Guest Co-Editor of the Special Issue of the Journal of Computational and Applied Mathematics, “(Numerical) Linear Algebra”, one Volume out of seven in the Series of “Numerical Analysis in the 20th Century” project, Vol. 123, Nos 1 & 2 (2000). (Published also in book form, under the title, “Numerical Analysis 2000, Volume 3, **Linear Algebra - Linear Systems and Eigenvalues**”, P.M. van Dooren, A. Hadjidimos, H.A. van der Vorst (Eds.), North Holland, Amsterdam, 2000.) γ) Guest Co-Editor of the Special Issue of the Journal of Applied Numerical Mathematics (with Elias N. Houstis and Emmanuel Vavalis), Vol. 42, No. 1 (2003).
- xi) Referee and Reviewer for many Mathematical and Computer Science Journals.
- xii) Reviewer for the National Research (Science) Foundation (Greece, Canada, U.S.A.).

- xiii) Reviewer for Professorships (Greece, U.S.A., Kuwait).
- xiv) α) Main Supervisor, Supervisor or Co-Supervisor for 13 Ph.D. Students (2 in U.K., 9 in Greece, 2 in U.S.A). Eleven of them have obtained their degrees. β) Main Supervisor, Supervisor or Co-Supervisor for 5 M.Sc. students (1 in U.S.A., 4 in Greece). Four of them have obtained their degrees. γ) Member on M.S. and Ph.D. Committees for over 15 students: (i) Purdue University, Computer Sciences Department, Statistics Department and Nuclear Engineering School, U.S.A. (ii) University of Crete, Mathematics Department, Greece.) γ Advisor for an undergraduate student. (Undergraduate Dissertation, Mathematics Department, University of Crete, Greece.)
- xiv) Member or Fellow of Mathematical and Computer Societies.
- xv) Member of the Electoral Board (Selection Committee) for the first Professors in the Mathematics and the Computer Science Departments of the University of Crete, Greece (1981–1982).
- xvi) α) President of the Ioannina Branch of the Greek Mathematical Society (1983). β) Vice-President of the Volos Branch of the Greek Mathematical Society (1986–1987).
- xvii) Participation in two Research Projects α) “ΠΕΝΕΔ” (1996–1997) of the Greek Ministry of Development, Research and Technology as the “Greek Scientist from Abroad”. (Principal Investigators: Drs. E.A. Vavalis of the Crete Univ. and D. Noutsos of the Ioannina Univ., respectively.) β) “Pythagoras” of the Greek Ministry of Education (2004–2006). (Principal Investigator D. Noutsos of the Ioannina Univ.)

A. PUBLICATIONS

April 15, 2005

1. On a Generalised Alternating Direction Implicit Method for Solving Laplace's Equation, *Comp. J.* 11 (1968), 324–328.
2. On Some High Accuracy Difference Schemes for Solving Elliptic Equations, *Numer. Math.* 13 (1969), 396–403.
3. A New Explicit Three-Level Difference Scheme for the Solution of the Heat Flow Equation, *BIT* 9 (1969), 315–323.
4. A Note on a Difference Scheme for the Solution of Heat Equation, *BIT* 10 (1970), 375.
5. Extrapolated Alternating Direction Implicit Iterative Methods, *BIT* 10 (1970), 465–475.
6. Solving the Four-Dimensional Laplace's Equation by Using Extrapolated Alternating Direction Methods, *J. Inst. Maths Applics* 6 (1970), 232–240.
7. Optimum Extrapolated ADI Iterative Difference Schemes for the Solution of Laplace's Equation in Three Space Variables, *Comp. J.* 14 (1971), 179–183.
8. The Numerical Solution of a Model Problem Biharmonic Equation by Using Extrapolated Alternating Direction Implicit Methods, *Numer. Math.* 17 (1971), 301–317.
9. Optimum Extrapolated Alternating Direction Implicit Schemes in the Presence of Singular Matrices, *J. Inst. Maths Applics* 7 (1971), 361–366.
10. Extrapolated Alternating Direction Implicit Methods for Solving the Biharmonic Equation in Three Space Variables, *Bull. Greek Math. Soc.* 12 (1971), 138–153.
11. Three-Level Alternating Direction Implicit Iterative Methods for Solving the Dirichlet Problem, *Bull. Greek Math. Soc.* 13 (1972), 214–232.
12. Solving Laplace's Equation in a Rectangle by Alternating Direction Implicit Methods (with K. Iordanidis), *J. Math. Anal. Appl.* 48 (1974), 353–367.
13. High Accuracy Extrapolated Alternating Direction Implicit Methods for the Numerical Solution of Neumann Problem in the 2- and 3-Dimensional Cases (with G. Avdelas), *Math. Balkanica* 4 (1974), 29–37.
14. On Improving the Convergence Rates of Extrapolated Alternating Direction Implicit Schemes (with G. Avdelas), *Linear Algebra Appl. BIT* 16 (1976), 363–373.

15. On Comparing Optimum Alternating Direction Preconditioning and Extrapolated Alternating Direction Implicit Schemes, *J. Math. Anal. Appl.* 59 (1977), 573–586.
16. Accelerated Overrelaxation Method, *Math. Comp.* 32 (1978), 149–157.
17. Analytical Eigenvalue Bounds for Matrices Arising when Discretizing the Self-Adjoint Second Order Elliptic Partial Differential Equations (with G. Avdelas), *J. Comp. Appl. Maths* 4 (1978), 207–211.
18. The Numerical Solution of the Self-Adjoint Second Order Elliptic Partial Differential Equation Under Mixed Boundary Conditions (with G. Avdelas), *Anal. Numér. et Théor. Approx.* 7 (1978), 117–133.
19. A Note on the Numerical Solution of a Fourth-Order Parabolic Partial Differential Equation, *Bull. Greek Math. Soc.* 19 (1978), 194–197.
20. Three-Level Iterative Methods with Symmetric and Commutative Coefficient Matrices for the Numerical Solution of Linear Systems (with G. Avdelas and S. Galanis), *Math. Balkanica* 8 (1978), 7–15.
21. On the Factorisation of Special Symmetric Periodic and Non-Periodic Quindagonal Matrices (with D.J. Evans), *Computing* 21 (1979), 259–266.
22. Improved Extrapolated Alternating Direction Implicit Schemes for the Numerical Solution of Three-Dimensional Elliptic Problems (with G. Avdelas and N.P. Krimnianiotis), *BIT* 19 (1979), 12–18.
23. Three-Level Extrapolated Alternating Direction Implicit (E.A.D.I.) Methods for the Numerical Solution of Two-Dimensional Second Order Elliptic Problems (with G. Avdelas and S. Galanis), *J. Comp. Appl. Maths* 5 (1979), 269–275.
24. Optimum Biparametric E.A.D.I. and A.D.P. Schemes for the Numerical Solution of 2-Dimensional Elliptic Problems (with G. Avdelas), *Rev. Roum. Math. Pures et Appl.* XXIV (1979), 999–1012.
25. On the General Problem of Formulation and Optimization of a p-Parametric Extrapolated Alternating Direction Implicit Scheme (with G. Avdelas), *Comp. & Maths with Appls* 5 (1979), 51–57.
26. Jordan-Wachspres Parameters in Three Dimensions (with G. Avdelas), *Linear Algebra Appl.* 24 (1979), 251–261.
27. Some Basic Results on M-Matrices in Connection with the Accelerated Overrelaxation (AOR) Method, *Computing* 24 (1980), 259–268.
28. A Note on the Simplification of p-Parametric E.A.D.I. Schemes for Elliptic Problems of Higher Order, *BIT* 20 (1980), 110–114.

29. A Modification of the Quadrant Interlocking Factorisation Parallel Method (with D.J. Evans), *Intern. J. Computer Math.* 8 (1980), 149–166.
30. The Principle of Extrapolation in Connection with the Accelerated Overrelaxation Method (with A. Yeyios), *Linear Algebra Appl.* 30 (1980), 115–128.
31. Three-Part Splittings and Varga’s Type Extensions of the Successive Overrelaxation (SOR) Theory, *Math. Comp. Simulation XXII* (1980), 242–247.
32. Some Theoretical and Computational Results Concerning the Accelerated Overrelaxation (AOR) Method (with G. Avdelas and A. Yeyios), *Anal. Numér. et Théor. Approx.* 9 (1980), 5–10.
33. The Parallel Solution of Banded Linear Equations by the New Quadrant Interlocking Factorisation (Q.I.F.) Method (with D.J. Evans and D. Noutsos), *Intern. J. Computer Math.* 9 (1981), 151–161.
34. Optimum Accelerated Overrelaxation Method in a Special Case (with G. Avdelas), *Math. Comp.* 36 (1981), 183–187.
35. Parallel Solution to Certain Banded, Symmetric and Centro-Symmetric Systems by Using the Quadrant Interlocking Factorisation Method (with D.J. Evans), *Math. Comput. Simulation XXIII* (1981), 180–187.
36. Second Order Chebyshev Semi-Iteration in Connection with p-Parametric E.A.D.I. Schemes (with G. Avdelas and D.J. Evans), *J. Comp. Appl. Maths* 7 (1981), 261–266.
37. Parallel Solution of Linear Systems by Quadrant Interlocking Factorisation Methods (with D.J. Evans and D. Noutsos), *Comput. Methods Appl. Mech. Engr.* 29 (1981), 97–107.
38. Special Similarity Transformations in Connection with the Quadrant Interlocking Factorisation Techniques (with D. Noutsos), *Bull. Greek Math. Soc.* 22 (1981), 44–66.
39. On Some Extensions of the Accelerated Overrelaxation Theory (with A. Yeyios), *Intern. J. Math. & Math. Sci.* 5 (1982), 49–60.
40. Symmetric Accelerated Overrelaxation (SAOR) Method (with A. Yeyios), *Math. Comput. Simulation XXIV* (1982), 72–76.
41. How to Improve on the Convergence Rates of a First Order Scheme (with A. Yeyios), *Intern. J. Computer Math.* 10 (1982), 283–294.
42. The Extrapolation Technique as a Preconditioning Strategy in “Preconditioning Methods Theory and Applications” (D.J. Evans, Ed.), 47–67, Gordon and Breach Science Publishers, London, 1983.

43. The Optimal Solution of the Extrapolation Problem of a First Order Scheme, *Intern. J. Computer Math.* 13 (1983), 153–168.
44. On the Optimization of a Class of Second Order Iterative Schemes (with G. Avdelas and S. Galanis), *BIT* 23 (1983), 50–64.
45. Optimum Second Order Stationary Extrapolated Iterative Schemes (with G. Avdelas), *Math. Comput. Simulation XXV* (1983), 189–198.
46. Optimum Accelerated Overrelaxation (AOR) Method for Systems with Positive Definite Coefficient Matrix (with N. Ga΄itanos and A. Yeyios), *SIAM J. Numer. Anal.* 20 (1983), 774–783.
47. On the Generalization of the Basic Iterative Methods for the Solution of Linear Systems, *Intern. J. Computer Math.* 14 (1983), 355–369.
48. The Optimal Solution to the Problem of Complex Extrapolation of a First Order Iterative Scheme, *Linear Algebra Appl.* 63 (1984), 241–261.
49. Optimum SOR Methods for a Class of Linear Systems, *Intern. J. Computer Math.* 17 (1985), 177–195.
50. Optimum Iterative Methods for the Solution of Singular Linear Systems Arising from the Discretization of Elliptic P.D.E.'s, *J. Comp. Appl. Maths* 12 & 13 (1985), 319–329.
51. On the Optimization of the Classical Iterative Schemes for the Solution of Complex Singular Linear Systems, *SIAM J. Alg. Disc. Meth.* 6 (1985), 555–566.
52. On the Convergence of Some Generalized Iterative Methods (with A. Psimarni and A. Yeyios), *Linear Algebra Appl.* 75 (1986), 117–132.
53. On Different Classes of Monoparametric Stationary Iterative Methods for the Solution of Linear Systems (with S. Galanis and D. Noutsos), *Math. Comput. Simulation* 28 (1986), 115–128.
54. Alternating Group Explicit (AGE) Iterative Methods (with D.J. Evans), *Intern. J. Computer Math.* 19 (1986), 309–326.
55. On the Extrapolation Technique for the Solution of Linear Systems, *Calcolo*, XXIII (1986), 35–43.
56. Optimum Stationary and Nonstationary Iterative Methods for the Solution of Singular Linear Systems, *Numer. Math.* 51 (1987), 517–530.
57. A Survey of the Iterative Methods for the Solution of Linear Systems by Extrapolation, Relaxation and Other Techniques, *J. Comp. Appl. Maths* 20 (1987), 37–51.

58. On the Equivalence of the k -Step Iterative Euler Methods and Successive Overrelaxation (SOR) Methods for k -Cyclic Matrices (with S. Galanis and D. Noutsos), *Math. Comput. Simulation* 30 (1988), 213–230.
59. A Guide to the Acceleration of Iterative Methods Whose Iterative Matrix is Nonnegative and Convergent (with G. Avdelas, J. de Pillis and M. Neumann), *SIAM J. Matrix Anal. Appl.* 9 (1988), 329–342.
60. On the Convergence of Monoparametric k -Step Iterative Euler Methods for the Solution of Linear Systems (with S. Galanis and D. Noutsos), *Intern. J. Computer Math.* 26 (1988), 45–56.
61. A Note on the SSOR Convergence Due to Neumaier and Varga (with M. Neumann), *Linear Algebra Appl.* 107 (1988), 207–217.
62. Optimal Block Iterative Schemes for Certain Large Sparse and Nonsymmetric Linear Systems (with T.S. Papatheodorou and Y.G. Saridakis), *Linear Algebra Appl.* 110 (1988), 285–318.
63. The Relationship Between the Jacobi and the Successive Overrelaxation (SOR) Matrices of a k -Cyclic Matrix (with S. Galanis and D. Noutsos), *Comp. & Maths with Appls* 17 (1989), 1351–1357.
64. Precise Domains of Convergence for the Block SSOR Method Associated with p -Cyclic Matrices (with M. Neumann), *BIT* 29 (1989), 311–320.
65. Optimum First and Second Order Extrapolations of the SOR Method for Certain Types of Matrices (with S. Galanis and D. Noutsos), *BIT* 29 (1989), 477–490.
66. On an SSOR Matrix Relationship and its Consequences (with S. Galanis and D. Noutsos), *Intern. J. Numer. Meth. Engr.* 27 (1989), 559–570.
67. Optimality Relationships for p -Cyclic SOR (with D.J. Pierce and R.J. Plemmons), *Numer. Math.* 56 (1990), 635–643.
68. The Young-Eidson Algorithm: Applications and Extensions (with D. Noutsos), *SIAM J. Matrix Anal. Appl.* 11 (1990), 620–631.
69. Convergence Domains of the SSOR Method for Generalized Consistently Ordered Matrices (with M. Neumann), *J. Comp. Appl. Math.* 33 (1990), 35–52.
70. Some Recent Results on the Modified SOR Theory (with A.K. Yeyios), *Linear Algebra Appl.* 154–156 (1991), 5–21.
71. On Some Convergence Results of the k -Step Iterative Methods (with S. Galanis), *Appl. Numer. Math.* 7 (1991), 297–308.

72. Best Cyclic Repartitioning for Optimal Successive Overrelaxation Convergence (with S. Galanis), *SIAM J. Matrix Anal. Appl.* 13 (1992), 102–120.
73. On the Optimum Relaxation Factor Associated with p -Cyclic Matrices (with S. Galanis, D. Noutsos and M. Tzoumas), *Linear Algebra Appl.* 162–164 (1992), 433–446.
74. On the Convergence of the Modified Accelerated Overrelaxation (MAOR) Method (with A. Psimarni and A.K. Yeyios), *Appl. Numer. Math.* 10 (1992), 115–127.
75. Modified Successive Overrelaxation (MSOR) and Equivalent 2-Step Iterative Methods for Collocation Matrices (with Y.G. Saridakis), *J. Comp. Appl. Math.* 42 (1992), 375–393.
76. On a Matrix Identity Connecting Iteration Operators Associated with a p -Cyclic Matrix (with D. Noutsos), *Linear Algebra Appl.* 182 (1993), 157–177.
77. Iterative Line Cubic Spline Collocation Methods for Elliptic Partial Differential Equations in Several Dimensions (with E.N. Houstis, J.R. Rice and E.A. Vavalis), *SIAM J. Sci. Comput.* 14 (1993), 715–734.
78. Analysis of p -cyclic iterations for Markov chains (with R.J. Plemmons), in *Linear Algebra, Markov Chains, and Queueing Models*, C.D. Meyer and R.J. Plemmons Eds, IMA Series on Applied Mathematics, Springer-Verlag, 48 (1993), 111–124.
79. On Domains of Superior Convergence of the SSOR Method Over the SOR Method (with M. Neumann), *Linear Algebra Appl.* 187 (1993), 67–85.
80. Optimal p -Cyclic SOR (with R.J. Plemmons), *Numer. Math.* 67 (1994), 475–490.
81. General Interior Hermite Collocation Methods for Second Order Elliptic Partial Differential Equations (with Y.-L. Lai, E.N. Houstis and J.R. Rice.), *Appl. Numer. Math.* 16 (1994), 183–200.
82. On the Iterative Solution of Hermite Collocation Equations (with Y.-L. Lai, E.N. Houstis and J.R. Rice), *SIAM J. Matrix Anal. Appl.* 16 (1995), 254–277.
83. Superior Convergence Domains for the p -Cyclic SSOR Majorizer (with M. Neumann), *J. Comp. Appl. Math.* 62 (1995), 27–40.
84. Exact SOR Convergence Regions for a General Class of p -Cyclic Matrices (with D. Noutsos and M. Tzoumas), *BIT* 35 (1995), 469–487.
85. On the Exact p -Cyclic SSOR Convergence Domains (with D. Noutsos and M. Tzoumas), *Linear Algebra Appl.* 232 (1996), 213–236.
86. On the Convergence Domains of the p -Cyclic SOR (with D. Noutsos and M. Tzoumas), *J. Comp. Appl. Maths* 72 (1996), 63–83.

87. A Generalized Schwarz Splitting Method Based on Hermite Collocation for Elliptic Boundary Value Problems (with Y.-L. Lai and E.N. Houstis), *Appl. Numer. Math.* 21 (1996), 265–290.
88. Some Notes on Multisplitting Methods and m-Step Preconditioners (with A.K. Yeyios), *Linear Algebra Appl.* 248 (1996), 277–302.
89. Multi-Parameterized Schwarz Alternating Methods for Elliptic Boundary Value Problems (with S.-B. Kim, E.N. Houstis and J.R. Rice), *Math. Comput. Simulation* 42 (1996), 47–76.
90. Optimal p-Cyclic SOR for Complex Spectra (with S. Galanis and D. Noutsos), *Linear Algebra Appl.* 263 (1997), 233–260.
91. Optimal 2-Cyclic MSOR for “Bow-Tie” Spectra and the “Continuous” Manteuffel Algorithm (with G. Avdelas), *Linear Algebra Appl.* 265 (1997), 29–54.
92. On the Minimization of the Euclidean Norms of the SOR Operators (with M. Neumann), *SIAM J. Matrix Anal. Appl.*, *SIAM J. Matrix Anal. Appl.* 19 (1998), 191–204.
93. Towards the Determination of the Optimal p-Cyclic SSOR (with D. Noutsos and M. Tzoumas), *J. Comp. Appl. Maths* 90 (1998), 1–14.
94. A Young-Eidson’s Type Algorithm for Complex p-Cyclic Spectra (with S. Galanis and D. Noutsos), *Linear Algebra Appl.* 286 (1999), 87–106.
95. Analysis of Iterative Line Spline Collocation Methods for Elliptic Partial Differential Equations (with E.N. Houstis, J.R. Rice and E. Vavalis), *SIAM J. Matrix Anal. Appl.* 21 (1999), 508–521.
96. Nonoverlapping Domain Decomposition: A Linear Algebra Viewpoint (with D. Noutsos and M. Tzoumas), *Math. Comput. Simulation* 51 (2000), 597–625.
97. Successive Overrelaxation (SOR) and Related Methods, *J. Comp. Appl. Maths* 123 (2000), 177–199.
98. More on Modifications and Improvements of Classical Iterative Schemes for M -matrices (with D. Noutsos and M. Tzoumas), *Linear Algebra Appl.* 364 (2003), 253–279.
99. Block Gauss Elimination Followed by a Classical Iterative Method for the Solution of Linear Systems (with M. Alanelli), *J. Comp. Appl. Maths* 163 (2004), 351–366.
100. An Extended Compact Profile Iterative Method Criterion for H -Matrices, *Linear Algebra Appl.* 389 (2004), 329–345.
101. On the Equivalence of Extrapolation and Richardson’s Iteration and Its Applications, *Linear Algebra Appl.*, in press.

102. Optimal Semi-Iterative Methods Based on Complex SOR (with N.S. Stylianopoulos), submitted for publication.

**B. THESIS, BOOKS, MANUSCRIPTS, TECHNICAL REPORTS, etc
(that are not included in the list of Publications or
have also been published as Conference Proceedings).**

1. Extrapolated Alternating Direction Implicit Methods for the Numerical Solution of Elliptic Partial Differential Equations, Ph.D. Thesis, University of Liverpool, Liverpool, England, U.K., 1968.
2. A Note on the Determination of the Optimum Acceleration Parameter when Using Chebyshev Acceleration Procedures for the Stationary Extrapolated ADI Methods, unpublished manuscript, 1968.
3. Introduction to Numerical Analysis I, Lecture Notes, Department of Mathematics, University of Ioannina, Ioannina, Greece, 1972 (in Greek).
4. Introduction to Computer Programming FORTRAN IV, Lecture Notes, Department of Mathematics, University of Ioannina, Ioannina, Greece, 1972 (in Greek).
5. Introduction to Numerical Analysis II, Lecture Notes, Department of Mathematics, University of Ioannina, Ioannina, Greece, 1973 (in Greek).
6. Introduction to ALGOL 60, Lecture Notes, Department of Mathematics, University of Ioannina, Ioannina, Greece, 1973 (in Greek).
7. Introduction to Numerical Analysis, Published by the University of Ioannina, Ioannina, Greece, 1976 (in Greek).
8. Numerical Analysis I, Published by the University of Ioannina, Ioannina, Greece, 1977 (in Greek).
9. Numerical Analysis II, Published by the University of Ioannina, Ioannina, Greece, 1978 (in Greek).
10. Lecture Notes on Numerical Linear Algebra (with V. Dougalis and D. Noutsos), 4th edition, Department of Mathematics, University of Crete, Heraklion, Greece, 2004 (in Greek).
11. On the Numerical Solution of the Self-Adjoint Second Order Elliptic Partial Differential Equation (with G. Avdelas), Proceedings of the International Congress of Applied Mathematics, 1–16, Thessaloniki, Greece, August 1976 (Part of a first version of [A17]).

12. The Numerical Solution of the Self-Adjoint Second Order Elliptic Partial Differential Equation Under Mixed Boundary Conditions (with G. Avdelas), Proceedings of the International Congress of Applied Mathematics, 17–33, Thessaloniki, Greece, August 1976, (Part of a first version of [A18]).
13. The Use of Wachspress Parameters for the Numerical Solution of Three-Dimensional Elliptic Problems (with G. Avdelas), Proceedings of the Colloquium on Numerical Methods, 113–120, Keszthely, Hungary, September 1977 (Part of a first version of [A26]).
14. Accelerated Overrelaxation Method, Proceedings of Colloquium on Numerical Methods, 315–323, Keszthely, Hungary, September 1977 (Part of a first version of [A16]).
15. Optimum Biparametric E.A.D.I. and A.D.P. Schemes for the Numerical Solution of the Biharmonic Equation (with G. Avdelas), T.R. 131, School of Physics and Mathematics, University of Ioannina, Ioannina, Greece, 1977. (Czechoslovak J. Math., accepted for publication but has never appeared.)
16. Parallel Solution of Quindagonal Systems (with D.J. Evans), T.R. 65, Department of Computer Studies, Loughborough University of Technology, Loughborough, England, U.k., 1978.
17. A New Method for the Solution of Linear Systems Arising from the Discretization of P.D.E.'s, Proceedings of the IV IMACS Symposium on Computer Methods for Partial Differential Equations, 74–79, Bethlehem, Pennsylvania, U.S.A., June-July 1981 (Part of a first version of [A47]).
18. A Note on the Solution of Elliptic PDE's by the Explicit 4-Point Block SOR Method (with D.J. Evans), T.R. 94, Department of Mathematics, University of Ioannina, Ioannina, Greece, 1983.
19. The Extrapolation Technique and the Solution of Linear Systems, Proceedings of the International Meeting on Linear Algebra and its Applications, 50–57, Vitoria, Spain, September 1983. (Part of a first version of [A48]).
20. On the Solution of a Class of PDE's by the Fastest Iterative Methods, Proceedings of the V IMACS Symposium on Computer Methods for Partial Differential Equations, Bethlehem, Pennsylvania, U.S.A., June 1984. (Part of a first version of [A49]).
21. A Note on the Iterative Solution of Linear Systems Whose Spectrum Lies on a Straight-Line and Straddles the Origin, T.R. 109, Department of Mathematics, University of Ioannina, Ioannina, Greece, 1984.
22. A Note on the Optimum Extrapolation of the Optimum Successive Overrelaxation (SOR) Method, T.R. 119, Department of Mathematics, University of Ioannina, Ioannina, Greece, 1985.

23. On the Solution of Singular Linear Systems by Iteration, T.R. 126, Department of Mathematics, University of Ioannina, Ioannina, Greece, 1986.
24. Application of the Schur-Cohn Theorem to Precise Convergence Domains for the Cyclic SOR Iterative Method (?), (with X.-Z. Li and R.S. Varga), Paper presented at the SIAM Conference on Numerical Methods (?), Boston, MA, U.S.A., August 1986. (Also in the form of unpublished manuscript (1985)).
25. Precise Domains of Convergence for the Block SSOR Method Associated with p-Cyclic Matrices (with M. Neumann), Preliminary Report, Department of Mathematics, University of Connecticut, Storrs, CT, U.S.A., 1987 (Extended version of A[61]).
26. Line Spline Collocation Methods for Elliptic Partial Differential Equations in Multi-dimensions (with E.N. Houstis, J.R. Rice and E.A. Vavalis), CSD-TR-768, Computer Sciences Department, Purdue University, West Lafayette, IN, April 1988 (Part of a first version of [A77]).
27. Spline Collocation Methods for Elliptic PDEs on Hypercube and Bus Architectures (with E.N. Houstis, J.R. Rice and E.A. Vavalis), presented at the International Congress of Computational and Applied Mathematics, Leuven, Belgium, July 1988.
28. Geometry Decomposition Based Methods for Solving Elliptic Partial Differential Equations (with C.C. Christara, E.N. Houstis, J.R. Rice and E.A. Vavalis), Proceedings of the International Conference on Computational Flow Analysis, (H. Niki and M. Kawahara, eds.), 167–174, Okayama University of Science, Okayama, Japan, September 1988.
29. Semi-Iterative Methods on Distributed Memory Multiprocessor Architectures (with E.N. Houstis, J.R. Rice, M.K. Samartzis and E.A. Vavalis), presented at the International Conference on Supercomputing, (C. Gannon and E. Houstis, eds.), 82–90, ACM Press, Heraklion, Greece, June 1989.
30. The Block Modified Accelerated Overrelaxation (MAOR) Method for Generalized Consistently Ordered Matrices (with A. Psimarni, Y.G. Saridakis and A.K. Yeyios), CSD-TR-1021, Computer Sciences Department, Purdue University, West Lafayette, IN, September 1990.
31. On the Iterative Solution of Line Spline Collocation Schemes for Elliptic PDEs (with E.N. Houstis, J.R. Rice and E.A. Vavalis), presented at the Fourth International Congress on Computational and Applied Mathematics, Leuven, Belgium, July 1990 (also CSD-TR-020, Computer Sciences Department, Purdue University, West Lafayette, IN, March 1991). (Extended version of [A93].)
32. Multi-Parameterized Schwarz Splittings (with S.-B. Kim, E.N. Houstis and J.R. Rice), CSD-TR-92-073, Computer Sciences Department, Purdue University, West Lafayette, IN, September 1992 (Extended version of [A89]).

33. Optimal p-Cyclic SOR (with R.J. Plemmons), CSD-TR-92-076, Computer Sciences Department, Purdue University, West Lafayette, IN, October 1992 (Extended version of [A78,A80]).
34. On the Exact p-Cyclic SSOR Convergence Domains (with D. Noutsos and M. Tzoumas), CSD-TR-92-088, Computer Sciences Department, Purdue University, West Lafayette, IN, November 1992 (Extended version of [A85]).
35. On the Iterative Solution of Hermite Collocation Equations (with Y.-L. Lai, E.N. Houstis and J.R. Rice), CSD-TR-92-094, Computer Sciences Department, Purdue University, West Lafayette, IN, December 1992 (Extended version of [A82]).
36. Some Notes on Multisplitting Methods and m -Step Preconditioners (with A.K. Yeyios), CSD-TR-94-055, Computer Sciences Department, Purdue University, West Lafayette, IN, 1994 (A different version of [A88]).
37. The Performance of Parallel Stationary Iterative Methods for Distributed Memory Machines. In D. Marinescu and R. Frost, Eds, Proceedings of the Intel Supercomputer Users' Group, 169-173, 1994 (A completely different version of [A89]).
38. Optimal p-Cyclic SOR for Complex Spectra (with S. Galanis and D. Noutsos), CSD-TR-95-074, Computer Sciences Department, Purdue University, West Lafayette, IN, November 1995 (Extended version of [A90]).
39. On the Minimization of the l_2 -norms of the SOR and the MSOR Operators (with M. Neumann), CSD TR-96-012, Computer Sciences Department, Purdue University, West Lafayette, IN, February 1996 (Extended version of [A92]).
40. A Young-Eidson's Type Algorithm for Complex p-Cyclic Spectra (with S. Galanis and D. Noutsos), CSD TR-96-027, Computer Sciences Department, Purdue University, West Lafayette, IN, May 1996 (Extended version of [A94]).
41. Towards the Determination of the Optimal p-Cyclic SSOR (with D. Noutsos and M. Tzoumas), CSD TR-96-079, Computer Sciences Department, Purdue University, West Lafayette, IN, December 1996 (Extended version of [A93]).
42. Nonoverlapping Domain Decomposition: A Linear Algebra Viewpoint (with D. Noutsos and M. Tzoumas), CSD TR-98-008, Computer Sciences Department, Purdue University, West Lafayette, IN, April 1998 (Extended version of [A96]).
43. Lecture Notes in Numerical Linear Algebra (with V. Dougalis), 2nd Edition, Department of Mathematics, University of Crete, GR-714 09 Heraklion, Greece, March 1999 (in Greek).
44. Successive Overrelaxation (SOR) and Related Methods, Preprint no. 99-1/1999, Department of Mathematics, University of Crete, GR-714 09 Heraklion, Greece, 1999 ([A97]).

45. Notes on Numerical Linear Algebra (with V. Dougalis and D. Noutsos), Lecture Notes, Department of Mathematics, University of Crete, Heraklion, Greece, 2000 (in Greek).
46. More on Modifications and Improvements of Classical Iterative Schemes for Z -matrices (with D. Noutsos and M. Tzoumas), Preprint no. 01-1/2001, Department of Mathematics, University of Crete, GR-714 09 Heraklion, Greece, 2001 (Extended version of [A98]).
47. Block Gauss Elimination Followed by a Classical Iterative Method for the Solution of Linear Systems (with M. Alanelli), Preprint no. 02-1/2002, Department of Mathematics, University of Crete, GR-714 09 Heraklion, Greece, 2002 (A first (slightly different) version of [A99]).
48. An Extended Compact Profile Iterative Method Criterion for H -Matrices, submitted for publication, Preprint no. 01-03/2003, Department of Mathematics, University of Crete, GR-714 09 Heraklion, Greece, 2003 (A first (slightly different) version of [A100]).
49. On the Equivalence of Extrapolation and Richardson's Iteration and Its Applications, Preprint no. 01-04/2004, Department of Mathematics, University of Crete, GR-714 09 Heraklion, Greece, 2004 ([A101]).