

CURRICULUM VITA

Sotirios E. Notaris

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Personal information

Date of birth: July 3, 1960
Place of birth: Athens, Greece
Marital status: Married, with two children

Education

B.Sc. in Mathematics, University of Athens, Greece 1982
M.Sc. in Mathematics, Purdue University, USA 1985
Ph.D. in Mathematics, Purdue University, USA 1988

Professional experience

Visiting Assistant Professor, Department of Mathematical Sciences, Indiana University-Purdue University at Indianapolis, USA 1988-1990
Assistant Professor, Department of Mathematics, University of Missouri-Columbia, USA 1990-1994
Instructor, Sector of Informatics, Institute of Continuing Education, National Center of Public Administration, Greece 1994-1996
Lecturer, Department of Communication and Mass Media, University of Athens, Greece 1995-2000
Assistant Professor, Department of Mathematics, University of Athens, Greece 2001-2007
Associate Professor, Department of Mathematics, University of Athens, Greece 2007-2016
Full Professor, Department of Mathematics, University of Athens, Greece 2016-

Scholarships

Scholarship, State Scholarships Foundation (IKY), Greece 1978-1982
Teaching and Research Assistanship, Purdue University, USA 1983-1988

Research interests

Numerical Analysis (Numerical Quadrature and Numerical Approximation), Approximation Theory, Special Functions.

Publications

Papers in refereed journals

- W. Gautschi and S.E. Notaris, “An algebraic study of Gauss-Kronrod quadrature formulae for Jacobi weight functions”, *Math. Comp.*, v. 51, 1988, pp. 231-248.
- W. Gautschi and S.E. Notaris, “Gauss-Kronrod quadrature formulae for weight functions of Bernstein-Szegö type”, *J. Comput. Appl. Math.*, v. 25, 1989, pp. 199-224; erratum in: *J. Comput. Appl. Math.*, v. 27, 1989, p. 429.
- S.E. Notaris, “Gauss-Kronrod quadrature formulae for weight functions of Bernstein-Szegö type, II”, *J. Comput. Appl. Math.*, v. 29, 1990, pp. 161-169.
- S.E. Notaris, “The error norm of Gaussian quadrature formulae for weight functions of Bernstein-Szegö type”, *Numer. Math.*, v. 57, 1990, pp. 271-283.
- S.E. Notaris, “Some new formulae for the Stieltjes polynomials relative to classical weight functions”, *SIAM J. Numer. Anal.*, v. 28, 1991, pp. 1196-1206.
- S.E. Notaris, “On Gauss-Kronrod quadrature formulae of Chebyshev type”, *Math. Comp.*, v. 58, 1992, pp. 745-753.
- S.E. Notaris, “Error bounds for Gauss-Kronrod quadrature formulae of analytic functions”, *Numer. Math.*, v. 64, 1993, pp. 371-380.
- S.E. Notaris, “The error norm of Gauss-Lobatto quadrature formulae for weight functions of Bernstein-Szegö type”, *Numer. Math.*, v. 64, 1993, pp. 381-393.
- S.E. Notaris, “Stieltjes polynomials and Gauss-Kronrod quadrature formulae for measures induced by Chebyshev polynomials”, *Numer. Algorithms*, v. 10, 1995, pp. 167-186.

- W. Gautschi and S.E. Notaris, “Stieltjes polynomials and related quadrature formulae for a class of weight functions”, *Math. Comp.*, v. 65, 1996, pp. 1257-1268.
- S.E. Notaris, “Interpolatory quadrature formulae with Chebyshev abscissae of the third or fourth kind”, *J. Comput. Appl. Math.*, v. 81, 1997, pp. 83-99.
- S.E. Notaris, “New interpolatory quadrature formulae with Chebyshev abscissae”, *J. Comput. Appl. Math.*, v. 94, 1998, pp. 199-214.
- S.E. Notaris, “Interpolatory quadrature formulae with Chebyshev abscissae”, *J. Comput. Appl. Math.*, v. 133, 2001, pp. 507-517.
- S.E. Notaris, “Positivity of the weights of interpolatory quadrature formulae with Jacobi abscissae”, *BIT*, v. 42, 2002, pp. 440-446.
- S.E. Notaris, “New interpolatory quadrature formulae with Gegenbauer abscissae”, *J. Comput. Appl. Math.*, v. 161, 2003, pp. 295-312.
- S.E. Notaris, “Integral formulas for Chebyshev polynomials and the error term of interpolatory quadrature formulae for analytic functions”, *Math. Comp.*, v. 75, 2006, pp. 1217-1231.
- S.E. Notaris, “The error norm of Gauss-Kronrod quadrature formulae for weight functions of Bernstein-Szegő type”, *Numer. Math.*, v. 103, 2006, pp. 99-127.
- S.E. Notaris, “Positivity of the weights of interpolatory quadrature formulae with Bernstein-Szegő abscissae”, *Numer. Algorithms*, v. 49, 2008, pp. 315-329.
- S.E. Notaris, “The error norm of Gauss-Radau quadrature formulae for Chebyshev weight functions”, *BIT*, v. 50, 2010, pp. 123-147.
- S.E. Notaris, “The error norm of quadrature formulae”, *Numer. Algorithms*, v. 60, 2012, pp. 555-578.
- S.E. Notaris, “Product integration rules for Chebyshev weight functions with Chebyshev abscissae”, *J. Comput. Appl. Math.*, v. 257, 2014, pp. 180-194.
- S.E. Notaris, “The error norm of Gauss-Radau quadrature formulae for Bernstein-Szegő weight functions”, *Math. Comp.*, v. 84, 2015, pp. 2843-2865.
- S.E. Notaris, “On a corrected Fejér quadrature formula of the second kind”, *Numer. Math.*, v. 133, 2016, pp. 279-302.

- S.E. Notaris, “The error norm of Clenshaw-Curtis and related quadrature formulae”, BIT, v. 56, 2016, pp. 705-728.
- S.E. Notaris, “Gauss-Kronrod quadrature formulae - A survey of fifty years of research”, Electron. Trans. Numer. Anal., v. 45, 2016, pp. 371-404.

Papers in scientific volumes

- S.E. Notaris, “Interpolatory quadrature formulae with Bernstein-Szegö abscissae”, in: Integral and Integrodifferential Equations: Theory, Methods and Applications (R.P. Agarwal and D. O’Regan, eds.), Series in Mathematical Analysis and Applications, Vol. 2, Gordon and Breach Science Publishers, Amsterdam, 2000, pp. 247-257.

Papers in refereed conference proceedings

- W. Gautschi and S.E. Notaris, “Newton’s method and Gauss-Kronrod quadrature”, in: Numerical Integration III (H. Brass and G. Hämmerlin, eds.), Internat. Ser. Numer. Math., v. 85, Birkhäuser, Basel, 1988, pp. 60-71.
- S.E. Notaris, “An overview of results on the existence or nonexistence and the error term of Gauss-Kronrod quadrature formulae”, in: Approximation and Computation (R.V.M. Zahar, ed.), Internat. Ser. Numer. Math., v. 119, Birkhäuser, Boston, 1994, pp. 485-496.

Other papers

- W. Gautschi and S.E. Notaris, “Problem 6”, in: Numerical Integration IV (H. Brass and G. Hämmerlin, eds.), Internat. Ser. Numer. Math., v. 112, Birkhäuser, Basel, 1993, pp. 379-380.

Papers in press and manuscripts submitted for publication

- S.E. Notaris, “Anti-Gaussian quadrature formulae based on the zeros of Stieltjes polynomials”, submitted for publication.

Proceedings edited

- R. Panagiotopoulou, P. Rigopoulou, M. Rigou και S.E. Notaris, “The “Construction” of Reality and the Mass Media”, Proceedings of International Conference (April 24-27, 1996, Department of Communication and Mass Media, University of Athens, Greece), Alexandria Publisher, 1998.

Participation in conferences and invited talks

- International Conference in “Approximation Theory and Numerical Linear Algebra”, March 30 - April 1, 1989, Kent State University, USA.
- NATO Advanced Study Institute in “Orthogonal Polynomials and Their Applications”, May 22 - June 3, 1989, Ohio State University, USA.
- Invited talk entitled “Gauss-Kronrod quadrature formulae”, February 19, 1990, Department of Mathematics and Statistics, University of South Alabama, USA.
- 6th Annual Meeting of Southeastern Approximation Theorists and Friends, March 14-16, 1991, Memphis State University, USA.
- NATO Advanced Research Workshop in “Numerical Integration: Recent Developments, Software and Applications”, June 17-21, 1991, University of Bergen, Norway.
- Invited talk entitled “Gauss-Kronrod quadrature rules”, February 18, 1992, Sector of Mathematics, School of Applied Mathematics and Physical Sciences, National Technical University of Athens, Greece.
- International Conference in “Numerische Integration”, November 8-14, 1992, Mathematisches Forschungsinstitut Oberwolfach, Germany.
- Invited talk entitled “Gauss-Kronrod quadrature rules”, November 23, 1993, Department of Sciences, Technical University of Crete, Greece.
- International Conference in “Special Functions, Approximation, Numerical Quadrature, and Orthogonal Polynomials”, December 2-4, 1993, Purdue University, USA.
- Invited talk entitled “Gauss-Kronrod quadrature formulae”, January 17, 1995, Department of Mathematics, University of Patras, Greece.
- International Conference in “Computational Methods and Function Theory '97”, October 13-17, 1997, University of Cyprus.
- International Conference in “Applications and Computation of Orthogonal Polynomials”, March 22-28, 1998, Mathematisches Forschungsinstitut Oberwolfach, Germany.
- International Conference in “Orthogonal Polynomials, Special Functions and their Applications”, September 20-24, 1999, University of Patras, Greece.

- International Conference in “Numerical Integration and its Complexity”, November 18-24, 2001, Mathematisches Forschungsinstitut Oberwolfach, Germany.
- 12th International Conference in “Computational and Applied Mathematics”, July 10-14, 2006, Katholieke Universiteit Leuven, Belgium.
- 1st Dolomites Workshop in “Constructive Approximation and Applications”, September 8-12, 2006, Alba di Canazei, Trento, Italy.
- International Conference in “Scientific Computing 2011”, October 10-14, 2011, S. Margherita di Pula, Sardinia, Italy.
- 3rd Dolomites Workshop in “Constructive Approximation and Applications”, September 9-14, 2012, Alba di Canazei, Trento, Italy.
- Invited talk entitled “Gauss-Kronrod quadrature formulae”, November 5, 2013, Department of Mathematics, University of Fribourg, Switzerland.
- International Conference in “Structured Numerical Linear and Multilinear Algebra: Analysis, Algorithms and Applications”, September 8-12, 2014, Kalamata, Greece.
- International Conference in “Modern Mathematical Methods in Science and Technology (M3ST 2015)”, August 30-September 1, 2015, Kalamata, Greece.
- 4th Dolomites Workshop in “Constructive Approximation and Applications”, September 8-13, 2016, Alba di Canazei, Trento, Italy.
- Invited talk entitled “The error norm of quadrature formulae”, October 27, 2016, Department of Mathematics, University of Fribourg, Switzerland.
- Invited talk entitled “Gauss-Kronrod quadrature formulae”, November 14, 2016, Department of Computational Science and Engineering, Nagoya University, Japan.
- Invited talk entitled “Gauss-Kronrod quadrature formulae”, November 21, 2016, Graduate School of Mathematical Sciences, The University of Tokyo, Japan.

Professional activities

- Member of the Organizing Committee of the International Conference on “Modern Mathematical Methods in Science and Technology (M3ST’09)”, September 3-5, 2009, Poros, Greece.

- Member of the Organizing Committee of the International Conference on “Modern Mathematical Methods in Science and Technology (M3ST 2012)”, August 26-28, 2012, Kalamata, Greece.
- Member of the Organizing Committee of the International Conference on “Modern Mathematical Methods in Science and Technology (M3ST 2015)”, August 30-September 1, 2015, Kalamata, Greece.

Editorship

Editorial Board, Electronic Transactions on Numerical Analysis (ETNA) 2015-
 Editorial Board, Kragujevac Journal of Mathematics 2006-

Masters students

- A. Fragoulis (2016)
- S. Iliopoulou (in progress)
- D. Karkazis (in progress)

Research grants

- 1991 Summer Research Fellowship, University of Missouri-Columbia, USA, for the research project entitled “Extended Gaussian quadrature formulae”.
- Research project from the Special Account of Research Grants of the University of Athens entitled “Quadrature formulae”, 1996.
- Research project from the Special Account of Research Grants of the University of Athens entitled “Error of interpolatory quadrature formulae”, 1998.
- Research project from the Special Account of Research Grants of the University of Athens entitled “Interpolatory quadrature formulae”, 1999-2004.