

Curriculum Vitae



Dr. Ravi P. Agarwal

Florida Institute of Technology (USA)

- Name **Dr. Ravi P. Agarwal**
- Date of Birth 10th July, 1947
- Present Position Professor, Department of Mathematical Sciences
Florida Institute of Technology
Melbourne, FL 32901-6975, U.S.A.
- Phone Number +1(321)674 – 7202(office) +1(321)956 – 8691(Personal)
- E-mail agarwal@fit.edu
- Webpage <http://cos.fit.edu/math/faculty/agarwal/>
- Honorary Position Adjunct Professor
Department of Mathematics
University of Delaware,
U.S A.
- Degrees Master in Science (1969) Agra University, 1st Class, 2nd Position
Ph.D. (1973) Indian Institute of Technology,
Madras, India.
- Field of Research Numerical Analysis
Differential and Difference Equations
Inequalities
Fixed Point Theory
- Research Experience 39 years

Research Publications

Over 1000 research papers in the following Journals and Series

1. Acta Applicandae Mathematicae
2. Acta Mathematica Hungarica
3. Advances in Difference Equations
4. Advances in Mathematical Sciences and Application
5. Aequationes Mathematicae
6. Analele Stiintifice ale Universitatii. Al. I. Cuza din Iasi
7. Annales Polonici Mathematici
8. Applied Mathematics and Computation
9. Applied Mathematics Letters
10. Applicable Analysis
11. Archivum Mathematicum (Brno)
12. Atti della Accad. Nazionale Dei Lincei
13. BIT
14. Bulletin of the Institute of Mathematics, Academia Sinica
15. Bulletin UMI
16. Chinese Journal of Mathematics
17. Communications in Applied Analysis
18. Communications in Applied Numerical Methods
19. Computers and Mathematics with Applications
20. Differential and Integral Equations
21. Dynamic Systems and Applications
22. *Dynamic Systems and Applications, Dynamic Publishers
23. Dynamics of Continuous, Discrete and Impulsive Systems
24. Fluid Dynamics Research
25. Functional Differential Equations
26. Funkcialaj Ekvacioj
27. Georgian Mathematical Journal
28. Hiroshima Mathematical Journal
29. IMA Journal of Applied Mathematics
30. Indian Journal of Pure and Applied Mathematics
31. International Journal of Computer Mathematics
32. *International Series of Numerical Mathematics, Birkhauser
33. Japan Journal of Industrial and Applied Mathematics
34. Journal of Applied Mathematics and Stochastic Analysis
35. Journal of Approximation Theory
36. Journal of the Australian Mathematical Society. Series A
37. Journal of the Australian Mathematical Society. Series B
38. Journal of Computational and Applied Mathematics
39. Journal of Difference Equations and Applications
40. Journal of Differential Equations
41. Journal of the Korean Mathematical Society
42. Journal of the London Mathematical Society

43. Journal of Mathematical Analysis and Applications
44. Journal of Mathematical and Physical Sciences
45. Journal of Nonlinear and Convex Analysis
46. Journal of Optimization Theory and Applications
47. Korean Journal of Computational and Applied Mathematics
48. *Lecture Notes in Mathematics, Springer-Verlag
49. Mathematica Slovaca
50. Mathematical Inequalities and Applications
51. Mathematical Methods in the Applied Sciences
52. Mathematical and Computer Modelling
53. Mathematical Problems in Engineering: Theory, Methods and Applications
54. Mathematics Seminar Notes, Kobe University
55. Mathematika
56. Mathematische Nachrichten
57. *Matscience Reports
58. Neural, Parallel and Scientific Computations
59. Nonlinear Analysis Forum
60. Nonlinear Analysis : Theory, Methods and Applications
61. Nonlinear Functional Analysis and Applications
62. Nonlinear World
63. *North-Holland Mathematics Studies
64. PanAmerican Mathematical Journal
65. Proceedings of the American Mathematical Society
66. *Proceedings of the Conference of ISTAM
67. *Proceedings of the International Conference on Difference Equations and Applications, Gordon and Breach
68. *Proceedings of the First World Congress of Nonlinear Analysts, Walter de Gruyter
69. Proceedings of the Indian Academy of Sciences
70. Proceedings of the Royal Society of Edinburgh
71. Proceedings of the Edinburgh Mathematical Society
72. *Proceedings of Symposia in Applied Mathematics, American Math. Soc.
73. Proceedings of the Tamil Nadu Acad. Sci.
74. Publications of the Research Institute for Mathematical Sciences
75. Results in Mathematics
76. Rivista di Math. della Univ. Parma
77. Rocky Mountain Journal of Mathematics
78. Series in Mathematical Analysis and Applications, Gordon and Breach
79. *Stability and Control: Theory, Methods and Applications, Gordon and Breach
80. Studies in Applied Mathematics
81. Tamkang Journal of Mathematics
82. Tohoku Mathematical Journal
83. Topological Methods in Nonlinear Analysis
84. Utilitas Mathematica
85. ZAA
86. ZAMM

(* Conference Proceedings/ Special Volumes)

Monographs and Books

(1) R.P. Agarwal, Boundary Value Problems for Higher Order Differential Equations, World Scientific, Singapore, Philadelphia, 1986, p. 307.

‘This comprehensive monograph provides an exhaustive state of the art coverage of basic results on boundary value problems associated with higher order differential equations. It is without question one of the most thorough reviews I have seen, on any subject. Those doing research in this field would be well advised to refer to this work. The author consistently poses questions to researchers who are looking for open problems.’

(Mathematical Reviews)

‘The monograph is an excellent account of the various techniques available in the literature to prove existence and uniqueness of various boundary value problems which occur in applications.

Graduate students and research mathematicians will find it very useful.’ (Zentralblatt für Mathematik)

(2) R.P. Agarwal and R.C. Gupta, Essentials of Ordinary Differential Equations, McGraw-Hill Book Co., Singapore, New York, 1991, p.467.

(3) R.P. Agarwal, Difference Equations and Inequalities: Theory, Methods and Applications, Marcel Dekker, Inc., New York, 1992, p.777.

‘This book is a virtual encyclopedia of results concerning difference equations. It is well written and is easy to read. This book covers over 400 recent publications. This book should not only be of interest to mathematicians and statisticians but also to electrical engineers, biologists, economists, psychologists, and sociologists to name a few. This indeed is a very good book to have in one's own personal library.’ (Mathematical Reviews)

‘This new monograph combines all aspects of the theory and methods of solutions of difference equations and their applications in real world problems providing in depth coverage of more than 400 recent publications. This monograph with the wealth of information it contains is very well come.’ (Newsletter on Computational and Applied Mathematics)

‘This book contains a complete account of standard results concerning difference equations, as well as an extensive discussion of recent papers concerning the theory and practice of their solutions.

This book should be useful both as textbook and for reference.’ (Mathematika)

‘This book is essential for the enrichment of knowledge in mathematics, physics and statistics.

The comprehensive compilation of the book is useful for researchers of natural philosophy.’ (Indian J. Physics)

‘Comprehensive treatment develops discrete versions of Rolle's, mean value, Kneser's theorems.’ (The American Mathematical Monthly)

‘This excellent monograph combines all aspects of the theory and methods of solutions of difference equations and their applications providing in depth coverage of more than 400 recent publications. It serves as a basic reference for mathematicians and users of

mathematics interested in differential and difference equations and their applications.’
(Acta Sci. Math. Szeged)

‘It is a definite reference for applied mathematicians, numerical analysts, physicists, engineers, and graduate level students in courses on difference equations.’ (INSPEC The Institute of Electrical Engineers)

‘Focusing on a wide range of possible mathematical uses, the book offers various methods of solving linear and nonlinear difference equations.’ (Bulletin Bibliographique)

‘Deals with the many aspects of difference equations including theory, methods of solutions, and applications. Reviews more than 400 recent related publications.’ (The New York Public Library)

(4) R.P. Agarwal and V. Lakshmikantham, Uniqueness and Nonuniqueness Criteria for Ordinary Differential Equations, World Scientific, Singapore, 1993, p. 312.

‘The book is devoted to a branch of the theory of differential equations that is classical on the one hand but still alive and developing on the other hand. The book is very interesting and well written. It is warmly recommended to any student in analysis and to any specialist in the theory of differential equations.’ (Mathematical Reviews and Zentralblatt fur Mathematik)

(5) R.P. Agarwal and P.J.Y. Wong, Error Inequalities in Polynomial Interpolation and Their Applications, Kluwer Academic Publishers, Dordrecht, 1993, p.365.

‘A main theme of this book lies behind the selection and organization of the material in it is the use of interpolation in the theory of ordinary differential equations. . . . It will no doubt find uses among specialists in differential equations. Otherwise, the wealth of detail and the precision of the error estimates in it go beyond what is generally available in book or monograph form and commend the work to a more general audience.’ (Journal of Approximation Theory)

(6) R.P. Agarwal and R.C. Gupta, Solutions Manual to Accompany Essentials of Ordinary Differential Equations, McGraw-Hill Book Co., Singapore, New York, 1993, p.209.

(7) R.P. Agarwal and P.Y.H. Pang, Opial Inequalities with Applications in Differential and Difference Equations, Kluwer Academic Publishers, Dordrecht, 1995, p.393.

‘The monograph under review presents a complete survey of results related to the Opial inequality developed over the last three decades. . . . The book under review is very well written and most of the material is presented with detailed proofs. The book can be warmly recommended not only to specialist working in the area of mathematical analysis and applications but also to graduate students, engineers and researchers in the applied sciences.’ (Zentralblatt fur Mathematik)

(8) R.P. Agarwal and P.J.Y. Wong, Advanced Topics in Difference Equations, Kluwer Academic Publishers, Dordrecht, 1997, p.507.

‘One of the specialists in the field is without doubt Ravi P Agarwal. His previous book Difference Equations and Inequalities (1992) is a survey of the theory of difference equations and contains a wealth of information for the researchers. This new book,

coauthored by Patricia J. Y. Wong, can be seen as an update of the first one. . . . The results in this book are of great interest to other specialists in the field. This book offers an easy way to get access to them.' (Mathematical Reviews)

'The book contains a collection of recent results and it will serve as a reference book for researchers in discrete dynamical systems and their applications and reader will also find material, which is not available in other books on difference equations. It will also be of interest to graduate students interested in the theory of finite difference equations and their applications. The presentation is clear and it is a welcome addition to the literature.' (Zentralblatt fur Mathematik)

(9) R.P. Agarwal, Focal Boundary Value Problems for Differential and Difference Equations, Kluwer Academic Publishers, Dordrecht, 1998, p.289.

'Agarwal's great knowledge of the literature in this area makes this book very appealing. The book will be useful for a graduate course concerned with boundary value problems for either differential equations or difference equations. It also would be an excellent book for mathematicians doing research in this area.' (Mathematical Reviews)

(10) R.P. Agarwal, D. O'Regan and P.J.Y. Wong, Positive Solutions of Differential, Difference and Integral Equations, Kluwer Academic Publishers, Dordrecht, 1999, p.417.

'The majority of the book is devoted to some of the recent developments by the authors. The book should be a good reference book and the extensive bibliography could prove to be very helpful.

In addition, the examples at the end of each chapter are a good source of illustrative material.' (Mathematical Reviews)

(11) R.P. Agarwal, Difference Equations and Inequalities: Second Edition, Revised and Expanded, Marcel Dekker, New York, 2000, xv+980pp.

(12) R.P. Agarwal, M. Meehan and D. O'Regan, Fixed Point Theory and Applications, Cambridge University Press, Cambridge, 2001, 170pp.

(13) R.P. Agarwal, S.R. Grace and D. O'Regan, Oscillation Theory for Difference and Functional Differential Equations, Kluwer Academic Publishers, Dordrecht, 2000, 337pp.

'This good monograph contains some of the recent developments in the oscillation theory of difference and functional-differential equations (FDEs)... It provides an excellent reference to the recent work for research workers in this interesting field.' (Mathematical Reviews)

(14) R.P. Agarwal and D. O'Regan, Infinite Interval Problems for Differential, Difference and Integral Equations, Kluwer Academic Publishers, Dordrecht, 2001, 341pp.

'This book develops the basic ideas used in proving the existence of solutions to boundary value problems on infinite intervals and it mainly contains the results which the authors have obtained in their research during the last decade.' (Mathematical Reviews)

(15) R.P. Agarwal, M. Meehan and D. O'Regan, Nonlinear Integral Equations and Inclusions, Nova Science Publishers, New York, 2001, 362pp.

(16) R.P. Agarwal, S.R. Grace and D. O'Regan, Oscillation Theory for Second Order Linear, Halflinear, Superlinear and Sublinear Dynamic Equations, Kluwer Academic Publishers, The Netherlands, 2002, 672pp.

'Those who are already in the field will welcome the systematic organization of the material and find the book to be a valuable reference.' (Mathematical Reviews)

(17) R.P. Agarwal, S.R. Grace and D. O'Regan, Oscillation Theory for Second Order Dynamic Equations, Taylor & Francis, U.K., 2003, 404pp.

'The authors study systematically various techniques about oscillation and nonoscillation of each type of equations. There are numerous examples in each chapter and each chapter ends with detailed historical notes and an extensive list of references. The book is very readable and it is a valuable source and an important contribution to oscillation theory.' (Mathematical Reviews)

(18) R.P. Agarwal and D. O'Regan, Singular Differential and Integral Equations with Applications, Kluwer Academic Publishers, Dordrecht, 2003, 402pp.

'The authors have produced a monograph in which they present some of the recent development in existence of solutions theory of nonlinear singular integral and differential equations. In addition to theory, the monograph focuses on applications. Much of the material focuses on recent developments of the authors. A primary purpose of the monograph is to provide a readable account and introduce the material to a broader audience.' (Mathematical Reviews)

(19) R.P. Agarwal, M. Bohner and W.-T. Li, Nonoscillation and Oscillation Theory for Functional Differential Equations, Marcel Dekker, New York, 2004, 376pp.

(20) R.P. Agarwal, M. Bohner, S.R. Grace and D. O'Regan, Discrete Oscillation Theory, Hindawi Publishing Corporation, 2005, 1000pp.

'This is truly a compendium of many different results, all having a relation in some way to results which may or may not be fairly well known for the continuous case. One of the very useful features of this book is the discussion at the end of each chapter of the results presented and references to the original sources, as far as the authors are aware. Moreover, the authors have included a large number of examples throughout which serve to illustrate the many and varied results which are obtained. All of the authors are very well known in oscillation theory and have all contributed a great deal to this area. It is indeed a useful addition to the literature to have such a comprehensive survey of the area and to point the direction to new results. It will serve as a valuable reference in the area for many years to come.' (Mathematical Reviews)

(21) R.P. Agarwal and D. O'Regan, An Introduction to Ordinary Differential Equations, Springer, New York, 2008.

(22) R.P. Agarwal and D. O'Regan, Ordinary and Partial Differential Equations with Special Functions, Fourier Series and Boundary Value Problems, Springer, New York, in press.

(23) R.P. Agarwal, D. O'Regan and D.R. Sahu, Fixed Point Theory for Lipschitzian-type

Mappings with Applications, Springer, New York, in press.

(24) R.P. Agarwal, S. Ding and C.A. Nolder, Inequalities for Differential Forms, Springer, New York, in press.

Teaching and Other Experiences

□

1. 35 years, various courses for B.Sc., M.Sc., B.E. and M.E.
2. U. G. C. Visiting Professor, Marathwada University, Aurangabad (February, 1979).
3. Visiting Scientist, Indian Institute of Science, Bangalore (September 1979).
4. Alexander Von Humboldt Foundation Fellow at der Ludwig -Maximilians Universitat, Munchen, with Prof. Dr. G. Hammerlin. (1980-81)
5. Visiting Professor, Instituto Matematico, Firenze, Italy (1981-82), with Prof. Roberto Conti.
6. Visiting Scientist, International Center for Theoretical Physics, Trieste (April 1982, April 1983).
7. Visiting Scientist, The University of Manitoba, Winnipeg, Canada (April-May 1983, April 1986).
8. Visiting Scientist, The University of Western Australia (April 1989).
9. Visiting Professor, University of Saskatchewan, Canada (April 1991).
10. Visiting Scientist, JSPS Cooperation Programmes, Japan (June 1991).
11. Visiting Professor, Politecnico di Milano, Milano, Italy (June 1995).
12. Visiting Professor, University of Delaware, USA (June 1997-May 1998).
13. Visiting Professor, Politecnico di Milano, Milano, Italy (December 2007).
14. Visiting Professor, University of Roma, Italy (May 2007).
15. Visiting Professor, Politecnico di Milano, Milano, Italy (June 2008).

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Thesis Direction

- 1 P.R. Krishnamoorthy, Boundary Value Problems for Higher Order Differential Equations, Ph.D. thesis, University of Madras, 1979.
1. 2. E. Thandapani, On Continuous and Discrete Inequalities, Ph.D. thesis, University of Madras, 1981.
2. P.J.Y. Wong, On Two-Point Boundary Value Problems, Honours Project, National University of Singapore, 1984.
3. F.C. Weng, On the Oscillatory Behaviour of Second Order Delay Differential Equations, Honours Project, National University of Singapore, 1985.
4. G.L. Meng, Maximum Principles for Higher Order Differential Inequalities, Honours Project, National University of Singapore, 1987.
5. P.J.Y. Wong, Error Bounds for Quintic and Biquintic Spline Interpolation, Masters thesis, National University of Singapore, 1987.
6. Ng Bee Cheow, On Gronwalls Inequality and its Applications, Honours Project, National University of Singapore, 1988.

7. Goh Lee Leng, Uniqueness of Initial Value Problems, Honours thesis, National University of Singapore, 1988.
8. P.J.Y. Wong, Sharp Polynomial Interpolation Error Bounds for Derivatives and their Applications, Ph.D. thesis, National University of Singapore, 1991.
9. Lim Ee Tuo, Nonlinear Variation of Parameters for Differential and Difference Equations, Honours Project, National University of Singapore, 1992.
10. Chan Kwok Leong, Opial Type Inequalities, Honours Project, National University of Singapore, 1993.
11. Ngan Ngiap Teng, Gram Matrices, Inequalities and Applications, Honours Project, National University of Singapore, 1994.
12. T.A. Smith, On Periodic Solutions of Nonlinear Hyperbolic Equations of the Fourth Order, Ph.D. thesis, Florida Institute of Technology, U.S.A. 2006.

Citations

Over 3000 in the following Journals and Series are known

1. Acta Math. Hungar.
2. Advances in Computational Mathematics
3. Annales Polonici Mathematici
4. Appl. Math. Comp.
5. Appl. Math. Letters
6. Applicable Analysis
7. Archiv der Mathematik
8. Arch. Math. (Brno)
9. Astrophysics and Space Science
10. Bull. Austral. Math. Soc.
11. Comm. Appl. Numer. Methods
12. Computers Math. Applic.
13. Computing
14. CWI Monograph, North-Holland
15. Czech. Math. Jour.
16. de Gruyter Series in Nonlinear Analysis and Applications
17. Differential and Integral Equations
18. Dynamic Systems and Applications
19. Funkcialaj Ekvacioj
20. IEEE Trans. on Automatic Control
21. Int. Jour. Comp. Math.
22. Int. Series of Numer. Math.
23. Izv. Akad. Nauk. Arm. SSR, Matematika
24. Jour. Approximation Theory
25. Jour. Comp. Appl. Math.
26. Jour. Comp. Physics
27. Jour. Difference Equations and Appl.
28. Jour. Differential Equations
29. Jour. Math. Anal. Appl.

30. Jour. Mathl. Phyl. Sci.
31. Mathematical and Computer Modelling
32. Mathematics and its Applications, Kluwer Academic Publishers
33. Mathematics in Science and Engineering, Academic Press, Inc.
34. Mathematics Studies, North Holland
35. Mathematika
36. Nonlinear Analysis : TMA
37. Nonlinear Times and Digest
38. Numerische Mathematik
39. Pitman Advanced Publishing Program
40. Prentice Hall Series in Computational Mathematics
41. Proc. Amer. Math. Soc.
42. Proc. R. Soc. London
43. Proc. Royal Society of Edinburgh
44. Rocky Mountain J. Math.
45. SIAM J. Math. Anal.
46. SIAM Review
47. Trans. Amer. Math. Soc.
48. World Scientific Series in Applicable Analysis
49. ZAA
50. ZAMM

Referee Work

Refereed more than 2500 papers for the following Journals:

1. Journal of Differential Equations
2. Journal Approximation Theory
3. Journal of Mathematical Analysis and Applications
4. Nonlinear Analysis
5. Applicable Analysis
6. Applied Mathematics Letters
7. Applied Mathematics & Optimization
8. Journal of Computational and Applied Mathematics
9. Communications in Applied Numerical Methods
10. Communications in Numerical Methods in Engineering
11. Computers & Mathematics with Applications
12. Advances in Computational Mathematics
13. Dynamic Systems and Applications
14. Journal of Difference Equations and Applications
15. Archivum Mathematicum
16. Mathematical and Computer Modelling
17. Mathematische Nachrichten
18. Japan Jour. Indust. Appl. Math.
19. International Journal of Math. and Mathl. Sciences

20. International Journal of Numer. Methods Engg.
21. Jour. Appl. Math. Simulation
22. IEEE Trans. Automatic Control
23. Proc. Edinburgh Math. Soc.
24. Numer. Methods Partial Diff. Equns.
25. Jour. Austral. Math. Soc.
26. Trans. Amer. Math. Soc.

Service as a reviewer of research monographs: Refereed several research monographs for Kluwer Academic, Springer-Verlag and World Scientific publishers. I have also written reviews for several monographs in the journal SIAM Reviews.

Member of the Editorial Boards

1. EditorinChief, Journal of Inequalities and Applications, Hindawi Publishers, U.S.A.
2. EditorinChief, Advances in Difference Equations, Hindawi Publishers, U.S.A.
3. EditorinChief, Boundary Value Problems, Hindawi Publishers, U.S.A.
4. EditorinChief, Fixed Point Theory and Applications, Hindawi Publishers, U.S.A.
5. Editor, Nonlinear Analysis: Theory, Methods and Applications, Pergamon Press, U.K.
6. Senior Editor, Applied Mathematics and Computation, Elsevier, The Netherlands.
7. Editor, Series in Mathematical Analysis and Applications, Gordon and Breach, U.K.
8. Editor, World Scientific Series in Applicable Analysis, World Scientific, Singapore.
9. Editor, Far East Journal of Mathematical Sciences, Pushpa Publishing House, India.
10. Associate Editor, Advances in Mathematical Sciences and Application, Japan.
11. Associate Editor, Applicable Analysis, Gordon and Breach, U.K.
12. Associate Editor, Applied Mathematics Letters, Pergamon Press, U.K.
13. Associate Editor, Archivum mathematicum, Masaryk Univ., Brno, Czech Rep. (Till 2007)
14. Associate Editor, Communications in Applied Analysis, Dynamic Publishers, U.S.A.
15. Associate Editor, Communications in Applied Nonlinear Analysis, International Publications, U.S.A.
16. Associate Editor, Communications of the Korean Mathematical Society, Korea.
17. Associate Editor, Computers and Mathematics with Applications, Pergamon Press, U.K.
18. Associate Editor, Dynamics of Continuous, Discrete and Impulsive Systems, University of Waterloo, Canada.
19. Associate Editor, Dynamics of Continuous, Discrete and Impulsive Systems (series B, Applied Mathematics), University of Waterloo, Canada.
20. Associate Editor, Facta Universitatis: Mathematics and Informatics, University of Nis, Yugoslavia.
21. Associate Editor, Functional Differential Equations, The Research Institute, College of Judea and Samaria, Israel.
22. Associate editor, International Journal of Applied Mathematics, Academic Publications, Bulgaria.

23. Associate Editor, International Journal of Computational and Numerical Analysis and Applications, Academic Publishers, Bulgaria
24. Associate Editor, International Journal of Computer Mathematics, Gordon and Breach, U.K.
25. Associate Editor, International Journal of Differential Equations and Applications, Academic Publications, Bulgaria.
26. Associate Editor, Journal of Inequalities in Pure and Applied Mathematics, Australia
27. Associate Editor, Journal of Mathematical Analysis and Applications, Academic Press, U.S.A (Till 2007)
28. Associate Editor, Journal of Nonlinear and Convex Analysis, Yokohama Publishers, Japan
29. Associate Editor, The Korean Journal of Computational and Applied Mathematics, Korea
30. Associate Editor, Mathematical and Computer Modelling, Pergamon Press, U.K.
31. Associate Editor, Mathematical Inequalities and Applications, Zagreb, Croatia.
32. Associate Editor, Mathematical Sciences Research HotLine, International Publications, U.S.A.
33. Associate Editor, Memoirs on Differential Equations and Mathematical Physics, Publishing House GCI, Tbilisi, Republic of Georgia.
34. Associate Editor, Neural, Parallel and Scientific Computations, Dynamic Publishers, U.S.A.
35. Associate Editor, Nonlinear Differential Equations: Theory, Methods and Applications, Andhra University, India.
36. Associate Editor, Nonlinear Analysis Forum, Korea.
37. Associate Editor, Nonlinear Functional Analysis and Applications, Kyungnam University Press, Korea.
38. Associate Editor, Nonlinear Oscillations, The Publication of the Institute of Mathematics, National Academy of Sciences of Ukraine, Ukraine
39. Associate Editor, PanAmerican Mathematical Journal, International Publications, U.S.A.
40. Associate Editor, Journal of Mathematical Control Science and Applications, International Science Press, India.
41. Associate Editor, East Asian Mathematical Journal, The Busan Gyeongnam Mathematical Society, Korea.

Editorial Work

1. Numerical Mathematics, Singapore, (with Y. M. Chow and S. J. Wilson) International Series of Numerical Mathematics, Volume 86. Birkhauser Verlag, Basel, 1988, p. 526.
2. Recent Trends in Differential Equations, World Scientific Series in Applicable Analysis, Volume 1, 1992, p.583.
3. Contributions in Numerical Analysis, World Scientific Series in Applicable Analysis, Volume 2, 1993, p.475.

4. Inequalities and Applications, World Scientific Series in Applicable Analysis, Volume 3, 1994, p.592.
5. Advances in Difference Equations, Special issue: Computers and Mathematics with Applications, Pergaman - Press, Volume 28 Numbers 13 (1994), pp 1332.
6. Dynamical Systems and Applications, World Scientific Series in Applicable Analysis, Volume 4, 1995, p.700.
7. Recent Trends in Optimization Theory and Applications, World Scientific Series in Applicable Analysis, Volume 5, 1995, p.482.
8. Advances in Differential and Integral Inequalities, Special issue: Nonlinear Analysis: Theory, Methods and Applications, Pergaman - Press, Volume 25 Numbers 910 (1995), pp 8711078.
9. Computer Aided Geometric Design (with Ruibin Qu), Special issue: Neural, Parallel & Scientific Computations, Dynamic Publishers, Volume 5 Numbers 12 (1997), 1296.
10. Positive Solutions of Nonlinear Problems, Special issue: Journal of Computational and Applied Mathematics, Elsevier, Volume 88 Number 1 (1998), pp 1238.
11. Proceedings of Equadiff 9 (with J. Vosmansky), Special issue: Archivum mathematicum, Masaryk University, Volume 34 (1998), pp 1226.
12. Proceedings of Equadiff 9 (with F. Neuman and J. Vosmanský), Stony Brook: Electronic Publishing House, 1998, p. 251.
13. Advances in Difference Equations II, Special issue: Computers and Mathematics with Applications, Pergaman Press, Volume 36 Numbers 1012 (1998), 1429.
14. Proceedings of the International Workshop on Difference and Differential Inequalities (with L. E. Persson and A. Zafer), Special issue: Mathematical Inequalities and Applications, Volume 1 Number 3 (1998), 347461.
15. Discrete and Continuous Hamiltonian Systems (with M. Bohner), Special issue: Dynamic Systems and Applications, Volume 8 Numbers 34 (1999), 307588.
16. Fixed Point Theory with Applications in Nonlinear Analysis (with Donal O'Regan), Special issue: Journal of Computational and Applied Mathematics, Elsevier, Volume 113 Numbers 12 (2000), 1412.
17. Integral and Integrodifferential Equations (with Donal O'Regan), Series in Mathematical Analysis and Applications, Gordon & Breach, Amsterdam, Volume 2, 2000, p. 326.
18. Lakshmikanthams Legacy: A Tribute on his 75th Birthday, Special issue: Nonlinear Analysis: Theory, Methods and Applications, Pergaman - Press, Volume 40 Numbers 18 (2000), pp 1661.
19. Nonlinear Operator Theory (with Donal O'Regan), Special issue: Mathematical and Computational Modelling, Pergamon Press, Volume 32 Numbers 1113 (2000), 1287 1528.
20. Advances in Difference Equations III (with Donal O'Regan), Special issue: Computers and Mathematics with Applications, Pergaman Press, Volume 42 Numbers 35 (2001), 273754.
21. Orthogonal Systems and Applications (with G.V. Milovanovic), Special issue: Applied Mathematics and Computation, Elsevier, Volume 128 Issues 23 (2002), 149414.

22. Advances in Difference Equations IV (with Martin Bohner and Donal O'Regan), Special issue: Computers and Mathematics with Applications, Pergamon Press, Volume 45 Numbers 69 (2003), 8611468.
23. Advances in Integral Equations (with Donal O'Regan), Special issue: Dynamic Systems and Applications, Dynamic Publishers, Volume 14 Number 1 (2005), 1173.
24. Proceedings of the Conference Differential and Difference Equations and Applications (with K. Perera), Hindawi, 2006, p. 1237.

International Conferences

Participated and gave invited lectures in the following conferences:

1. Approximate Methods for Navier - Stokes Problems (Paderborn 1979, Germany)
2. General Inequalities 3 (Oberwolfach 1981, Germany)
3. Operator Inequalities (Oberwolfach 1981, Germany)
4. Ordinary Differential Equations (Oberwolfach 1983, Germany)
5. General Inequalities 4 (Oberwolfach 1983, Germany)
6. International Conference on Qualitative Theory of Differential Equations (Edmonton 1984, Canada)
7. Trends in the Theory and Practice of Nonlinear Analysis (Texas 1984, U.S.A.)
8. EQUADIFF 6 (Brno 1985, Czechoslovakia)
9. General Inequalities 5 (Oberwolfach 1986, Germany)
10. International Conference on Optimization : Techniques and Applications (1987, Singapore)
11. International Conference on Functional Equations and Inequalities (Szczawnica, 1987, Poland)
12. International Conference on Numerical Mathematics (1988, Singapore)
13. International Symposium on Asymptotic and Computational Analysis (Winnipeg 1989, Canada)
14. General Inequalities 6 (Oberwolfach 1990, Germany)
15. First World Congress of Nonlinear Analysts (Tampa, 1992, U.S.A.)
16. Second International Conference on Dynamic Systems and Applications (Atlanta 1995, U.S.A.)
17. First International Conference on Neural, Parallel and Scientific Computations (Atlanta 1995, U.S.A.)
18. Second International Conference on Difference Equations and Applications (Vesprem 1995, Hungary)
19. General Inequalities 7 (Oberwolfach 1995, Germany)
20. International Workshop on Difference and Differential Inequalities (Gebze, 1996, Turkey)
21. Second World Congress of Nonlinear Analysts (Athens, 1996, Greece)
22. Modelling and System Stability Investigations (Kiev, 1997, Ukraine)
23. EQUADIFF 9 (Brno 1997, Czechoslovakia)
24. Third Midwest-Southeastern Atlantic Joint Regional Conference on Differential Equations (Nashville, TN 1997, U.S.A)

25. The Centennial Celebration: A Century of mathematics and Statistics at Nebraska (Lincoln 1998, U.S.A)
26. Third International Conference on Dynamic Systems and Applications (Atlanta 1999, U.S.A.)
27. Third World Congress of Nonlinear Analysts (Catania, 2000, Italy)
28. Sixth International Conference on Difference Equations and Applications (Augsburg, 2001, Germany)
29. International Conference on Differential, Difference Equations and their Applications (Patras 2002, Greece)
30. Fourth International Conference on Dynamic Systems and Applications (Atlanta 2003, U.S.A.)
31. Fourth World Congress of Nonlinear Analysts (Orlando, 2004, USA)
32. The 24th Annual Southeastern-Atlantic Regional Conference on Differential Equations (University of Tennessee at Chattanooga, 2004, USA)
33. Fifth International Conference on Dynamic Systems and Applications (Atlanta 2007, U.S.A.)
34. Fifth World Congress of Nonlinear Analysts (Orlando, 2008, USA)
35. Fourteenth International Conference on Difference Equations and Applications (Vesprem 1995, Hungary)
36. Boundary Value Problems (Santiago de Compostela, 2008, Spain)
37. Fourteenth International Conference on Difference Equations and Applications (Istanbul, 2008, Turkey)
38. EQUADIFF 12 (Brno 2009, Czech Republic)

Colloquium Talks

Several Colloquium talks delivered at the following centers:

1. Universitat Karlsruhe (Germany, 1979)
2. der Universitat Munchen (Germany, 1979)
3. Georg - August - Universitat Gottingen (Germany, 1980)
4. Universitat Stuttgart (Germany, 1980)
5. Mathematisch Centrum Amsterdam (Holland, 1980)
6. University Van Amsterdam (Holland, 1980)
7. Universita Degli Studi Di Parma (Italy, 1980)
8. Universita Degli Studi Di Firenze (Italy, 1980)
9. University of Ioannina (Greece, 1980)
10. Universitat Karlsruhe (Germany, 1981)
11. der Universitat Munchen (Germany, 1981)
12. Technische Hochschule Darmstadt (Germany, 1981)
13. Universitat Osnabruck (Germany, 1981)
14. Universitat Hannover (Germany, 1981)
15. Universita Degli Studi Di Firenze (Italy, 1982)
16. Georg - August - Universitat Gottingen (Germany, 1983)
17. Johann Wolfgang Goethe - Universitat Frankfurt (Germany, 1983)

18. Albert - Ludwigs - Universitat Freiburg (Germany, 1983)
19. der Universitat Tubingen (Germany, 1983)
20. Universita Degli Studi Di Trieste (Italy, 1983)
21. Universita Degli Studi Di Trento (Italy, 1983)
22. J. E. Purkne University Brno (Czechoslovakia, 1983)
23. Comenius University Bratislava (Czechoslovakia, 1983)
24. The University of Manitoba (Canada, 1983)
25. The University of Manitoba (Canada, 1986)
26. Scuola Normale Superiore, Pisa (Italy, 1987)
27. Politecnica di Milano (Italy, 1987)
28. Rheinisch - Westfalische Technische Hochschule Aachen (Germany, 1989)
29. Universitat Karlsruhe (Germany, 1989)
30. der Universitat Munchen (Germany, 1989)
31. Georg - August - Universitat Gottingen (Germany, 1989)
32. Johann Wolfgang Goethe - Universitat Frankfurt (Germany, 1989)
33. University of Western Australia (Australia, 1989)
34. Murdoch University (Australia, 1989)
35. University of Dundee (U.K. 1989)
36. Brunel, The University of West London (U.K. 1989)
37. The University of Sussex (U.K. 1989)
38. The University of Liverpool (U.K. 1989)
39. University of Manchester (U.K. 1989)
40. University of Cambridge (U.K. 1989)
41. Oxford University (U.K. 1989)
42. University of Saskatchewan (Canada, 1991)
43. The University of Tokyo (Japan, 1991)
44. Tohoku University (Japan, 1991)
45. Nagoya University (Japan, 1991)
46. Ehime University (Japan, 1991)
47. Okayama University (Japan, 1991)
48. Kagoshima University (Japan, 1991)
49. Hiroshima University (Japan, 1991)
50. RIMS, Kyoto University (Japan, 1991)
51. der Universitat Munchen (Germany, 1995)
52. Universita Degli Studi Di Firenze (Italy, 1995)
53. Universita Degli Studi Di Trieste (Italy, 1995)
54. Scuola Normale Superiore, Pisa (Italy, 1995)
55. Politecnica di Milano (Italy, 1995)
56. Universita Degli Studi Di Roma (Italy, 1995)
57. Universita Degli Studi Di Bologna (Italy, 1995)
58. SISSA, Trieste (Italy, 1995)
59. Universitat Augsburg (Germany, 1995)
60. Institute of Mathematics, Ukrainian Acad. Sci, Kiev (Ukraine, 1997)
61. University of Nebraska, Lincoln, Nebraska (USA, 1997)
62. Auburn University, Auburn, Alabama (USA, 1997)
63. Washington University, St. Louis (USA, 1997)

64. Wake Forest University, WinstonSalem (USA, 1998)
65. Florida Institute of Technology, Melbourne (USA, 1998)
66. University of Central Florida, Orlando (USA, 1998)
67. North Carolina State University, Raleigh (USA, 1998)
68. San Diego State University, San Diego (USA, 1998)
69. University of Southern California, Los Angeles (USA, 1998)
70. University of Missouri, Rolla (USA, 2000)
71. The University of Queensland, (Australia, 2000)
72. University of Delaware, (USA 2000)
73. Geogia Institute of technology, (USA, 2000)
74. Auburn University, Auburn, Alabama (USA, 2005)
75. The Hong Kong Polytechnic University, (Hong Kong, 2006)
76. The University of Hong Kong, (Hong Kong, 2006)
77. City University of Hong Kong, (Hong Kong, 2006)
78. Howard University, (USA, 2006)
79. Georgetown University, (USA, 2006)
80. Western Kentucky University, (USA, 2006)
81. Michigan Technological University, (USA, 2007)
82. University of Rome, (Italy, 2008)
83. Politecnica di Milano (Italy, 2008)
84. Seattle University (USA, 2009)
85. King Fahd University of Petroleum and Minerals (Saudi Arabia, 2009)
86. Istanbul Technical University (Turkey, 2009)
87. Middle East Technical University (Turkey, 2009)
88. Cankaya University (Turkey, 2009)
89. Osmangazi University (Turkey, 2009)
90. Izmir University (Turkey, 2009)
91. Universidade De Santiago De Compostela (Spain, 2010)
92. King Abdulaziz University (Saudi Arabia, 2010)
93. American University of Sharjah (Sharjah, 2010)
94. United Arab Emirates University (Al-Ain, 2010)
95. King Fahd University of Petroleum and Minerals (Saudi Arabia, 2010)