
CURRICULUM VITAE

CHARALAMBOS D. ALIPRANTIS

Distinguished Professor of Economics and Professor of Mathematics
Purdue University

ADDRESS

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PERSONAL DATA

Place of birth: Cephalonia, Greece
Marital status: Married, two children

EDUCATION

Ph. D.: Mathematics, California Institute of Technology, June 1973
M. S.: Mathematics, California Institute of Technology, June 1971
Diploma: Mathematics, University of Athens, Greece, December 1968 (Summa Cum Laude)

HONORARY DEGREES

Honorary Doctorate (Honoris Causa): University of Athens, Greece, December 20, 2006

INDUSTRIAL EXPERIENCE

Research Scientist: June 1973–December 1974
STD Research Corporation
Arcadia, California

ACADEMIC APPOINTMENTS

- Purdue University: Distinguished Professor of Economics and Professor of Mathematics, February 14, 2003–present.
- Purdue University: Professor of Economics and Mathematics, January 1, 1998–February 14, 2003.
- University of Paris I, France: Visiting Professor of Math Economics, Academic year 1999–2000
- Indiana University-Purdue University at Indianapolis:
Professor of Mathematics and Economics, July 1996–December 1997
- CALTECH: Visiting Professor of Economics, April 1996–June 1996
- Cornell University: Visiting Professor of Economics, January 1996–March 1996
- Indiana University-Purdue University at Indianapolis:
Professor of Mathematics and Economics, July 1994–December 1995
- Indiana University-Purdue University at Indianapolis:
Acting Chairman, Department of Mathematics, September 1993–June 30, 1994
- Indiana University-Purdue University at Indianapolis:
Professor of Mathematics and Economics, January 1992–August 1993
- CALTECH and University of Arizona: Visiting Professor of Economics, Fall 1991
- Indiana University-Purdue University at Indianapolis:
Professor of Mathematics and Economics, August 1990–September 1991
- CALTECH: Visiting Professor of Mathematics and Economics, September 1989–July 1990
- Indiana University-Purdue University at Indianapolis:
Professor of Mathematics and Economics, January 1984–August 1989
Acting Chairman for the Departments of Mathematics and Computer Science (1988–89)
- Institute for Mathematics and its Applications–University of Minnesota:
Senior Research Fellow (Fall Semester 1983)
- Indiana University-Purdue University at Indianapolis: Professor of Mathematics, 1982–83
- CALTECH: Visiting Professor of Mathematics (Spring Semester 1982)
- University of Southern California: Visiting Associate Prof. of Mathematics (Fall Semester 1981)
- Indiana University-Purdue University at Indianapolis:
Associate Professor of Mathematics, 1978–81 (Promoted to Full Professor, April, 1981)
Assistant Professor of Mathematics, 1975–78
- Occidental College: Instructor, 1973–74; Assistant Professor of Mathematics, 1974–75
- CALTECH: Graduate Teaching Assistant, 1969–73
- University of Athens–Greece: Teaching Assistant, Spring Semester, 1969.

INDUSTRIAL EXPERIENCE

Research Scientist, STD Research Corporation, Arcadia, California, 1973–1975

SPECIALIZATION AND TEACHING EXPERIENCE

- My areas of specialization are Economic Theory, Mathematical Economics, Finance, Functional Analysis and Operator Theory.
- I have taught courses covering the whole mathematical spectrum (remedial, undergraduate, and graduate), as well as the basic computer courses. Also, I have industrial background and taught the basic undergraduate and graduate courses in economics and mathematics.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- American Mathematical Society
- Mathematical Association of America
- Society for the Advancement of Economic Theory

SPONSORED RESEARCH

- NSF Research Grant DMS-0437210 (2004–07)
- NSF Research Grant ACI-0325846 (2003–07)
- NSF Research Grant SES-0128039 (2002–05)
- NSF Research Grant DMI-0122214 (2001–03)
- NSF Research Grant EIA-0075506 (2000–01)
- Indiana 21st Century Research and Technology Fund (2001–02)
- NATO Collaborative Research Grant (1995–97)
- NSF Research Grant DMS 83–19594 (1984–86)
- NSF Research Grant DMS 82–19750 (1983–84)
- NSF Research Grant DMS 81–00787 (1981–83)

HONORS

- Purdue University Summer Faculty XL Grant (Summer 1979)
- Indiana University Summer Faculty Fellowship (Summer 1977)
- Ford Foundation Scholarships (Summers 1970, 71, 72)
- CALTECH Tuition Scholarship (1969-73)
- Fulbright Travel Grant (August 1969)
- Greek State Scholarship (1964-68)

PANEL PARTICIPATION

- Member of the NSF Engineering Design Panel, December 4, 2001

EDITORSHIPS

- Editor-in-chief and Founder, *Economic Theory*, a Springer–Verlag journal
<http://www.springerlink.com/link.asp?id=100511>
- Editor-in-chief and Founder, *Annals of Finance*, a Springer–Verlag journal
<http://www.springerlink.com/link.asp?id=112370>
- Editor-in-chief, *Positivity*, Kluwer Publishing Company Journal
<http://www.springerlink.com/link.asp?id=102984>
- Co-editor for the series *Studies in Economic Theory*, Springer–Verlag
- Member of Editorial Board, *Abstract and Applied Analysis*
- Member of Editorial Board, *Panamerican Mathematical Journal*
- Member of Advisory Board, *Decisions in Economics and Finance*

BIOGRAPHICAL LISTINGS

- Marquis Who's Who in the World
- Marquis Who's Who in America: Science and Engineering
- Marquis Who's Who in American Education
- American Men and Women of Science

PUBLICATIONS

A. BOOKS

1. **Locally Solid Riesz Spaces** (with O. Burkinshaw), Pure and Applied Math. Series, # 76, Academic Press, New York, 1978. **MR 58 # 12271**; **Zbl # 46005**.
2. **Principles of Real Analysis** (with O. Burkinshaw), Elsevier North-Holland, New York, 1981. Second Edition published by Academic Press in 1990; third edition published in 1998. **MR 82j:28001**, **91c:28001**, **2000d:28001**, and **Zbl # 28001**.
3. **Positive Operators** (with O. Burkinshaw), Pure and Applied Math. Series, # 119, Academic Press, New York, 1985. **MR 87h:47086**. Reprinted by Springer-Verlag in 2006.
4. **Existence and Optimality of Competitive Equilibria** (with D. J. Brown and O. Burkinshaw), Springer-Verlag, Heidelberg, 1989. **MR 92i:90023**. (Translated into Russian in 1995.)
5. **Problems in Real Analysis** (with O. Burkinshaw), Academic Press, New York and London, 1990; **MR 91c:28002**. Second edition published in 1998; **MR 99g:28001**
6. **Infinite Dimensional Analysis: A Hitchhikers Guide** (with K. C. Border), Studies in Economic Theory, Volume # 4, Springer-Verlag, New York & Berlin, 1994. Second edition published in 1999. Third edition published in 2006. **MR 96k:46001** and **MR 2000k:46001**.
7. **Problems in Equilibrium Theory**, Springer-Verlag, New York, Heidelberg, and Berlin, 1996. **MR 99c:90026**
8. **Games and Decision Making** (with S. K. Chakrabarti), Oxford University Press, New York & London 2000. (Solutions Manual to accompany the text was also published; 212 pages.) Translated into Greek by the Greek Mathematical Society in 2005. **MR 2001g:91037**.
9. **An Invitation to Operator Theory** (with Y. A. Abramovich), Graduate Studies in Mathematics, Volume # 50, American Mathematical Society, Providence, RI, 2002. **MR 2003h:47072**.
10. **Problems in Operator Theory** (with Y. A. Abramovich), Graduate Studies in Mathematics, Volume # 51, American Mathematical Society, Providence, RI, 2002. **MR 2003h:47073**.
11. **Locally Solid Riesz Spaces with Applications to Economics** (with O. Burkinshaw), Math Surveys and Monographs, Volume # 105, American Math. Society, 2003. **MR 2005b:46010**.
12. **Cones and Duality** (with R. Tourky), Graduate Studies in Mathematics, Volume # 84, American Mathematical Society, Providence, RI, 2007.

B. CONFERENCE PROCEEDINGS

1. **Advances in Equilibrium Theory** (co-edited with O. Burkinshaw and N. J. Rothman), Springer-Verlag Lecture Notes in Economics and Mathematical Systems # 244, 1985; **MR 87j:90009**.
2. **Positive Operators, Riesz Spaces, and Economics** (co-edited with K. C. Border and W. A. J. Luxemburg), Studies in Economic Theory, # 2, Springer-Verlag, New York & Berlin, 1991. **MR 95g:46001**.
3. **Current Trends in Economics: Theory and Applications** (co-edited with A. Alkan and N. C. Yannelis), Springer-Verlag, New York & Berlin, 1999.
4. **Assets, Beliefs, and Equilibria in Economic Dynamics** (co-edited with K. J. Arrow, P. Hammond, F. Kubler, H.-M. Wu and N. C. Yannelis), Springer-Verlag, New York & Berlin, 2003.

C. ARTICLES

1. Some order and topological properties of locally solid linear topological Riesz spaces, *Proc. Amer. Math. Soc.* **40** (1973), 443–447. **MR** 47 # 9928.
2. Closed form solutions for excited state populations in temporary and spatially lasing media (with B. P. Curry and S. A. Zwick), *Applied Physics Letters* **23** (1973), 574–575.
3. Almost σ -Dedekind complete Riesz spaces and the main inclusion theorem (with E. Langford), *Proc. Amer. Math. Soc.* **44** (1974), 421–426. **MR** 49 # 11200.
4. On the completion of Hausdorff locally solid Riesz spaces, *Trans. Amer. Math. Soc.* **196** (1974), 105–125. **MR** 50 # 2865.
5. Riesz seminorms with Fatou properties, *Proc. Amer. Math. Soc.* **45** (1974), 383–388. **MR** 50 # 2664.
6. Regularity properties of quotient Riesz seminorms (with E. Langford), *Indagationes Math.* **37** (1975), 199–212. **MR** 51 # 6356.
7. On order properties of order bounded transformations, *Canadian J. Math.* **27** (1975), 666–678. **MR** 51 # 11183.
8. A new proof of Nakano’s theorem in locally solid Riesz spaces (with O. Burkinshaw), *Math. Zeitschrift* **114** (1975), 25–33. **MR** 52 # 6371.
9. Nakano’s theorem revisited (with O. Burkinshaw), *Michigan Math. J.* **23** (1976), 173–176. **MR** 56 # 12823.
10. On universally complete Riesz spaces (with O. Burkinshaw), *Pacific J. Math.* **71** (1977), 1–12. **MR** 56 # 1014.
11. Minimal topologies and L_p -spaces (with O. Burkinshaw), *Illinois J. Math.* **24** (1980), 164–172. **MR** 81c:46005.
12. On the structure of locally solid topologies (with O. Burkinshaw), *Canadian Math. Bulletin* **23** (1980), 185–191. **MR** 81i:46007.
13. Positive compact operators on Banach lattices (with O. Burkinshaw), *Mathematische Zeitschrift* **174** (1980), 289–298. **MR** 81m:47053.
14. On weakly compact operators on Banach lattices (with O. Burkinshaw), *Proc. Amer. Math. Soc.* **83** (1981), 573–578. **MR** 82j:47057.
15. On lattice properties of the composition operator (with O. Burkinshaw and P. Kranz), *Manuscr. Math.* **36** (1981), 19–31. **MR** 83b:47048.
16. Compactness properties of abstract kernel operators (with O. Burkinshaw and M. Duhoux), *Pacific J. Math.* **100** (1982), 1–22. **MR** 83h:47026.
17. Dunford-Pettis operators on Banach lattices (with O. Burkinshaw), *Trans. Amer. Math. Soc.* **274** (1982), 227–238. **MR** 84b:47045.
18. Some remarks on orthomorphisms (with O. Burkinshaw), *Colloquium Math.* **47** (1982), 255–265. **MR** 85b:47039.
19. On positive order continuous operators (with O. Burkinshaw), *Indagationes Math.* **45** (1983), 1–6. **MR** 84e:47053.
20. Equilibria in markets with a Riesz space of commodities (with D. J. Brown), *J. Math. Economics* **11** (1983), 189–207. **MR** 85d:90021.

21. The components of a positive operator (with O. Burkinshaw), *Math. Zeitschrift* **184** (1983), 245–257. **MR** 85b:47040.
22. Order completions of Archimedean Riesz spaces and ℓ -groups (with E. Langford), *Algebra Universalis* **19** (1984), 151–159. **MR** 85h:46015.
23. Factoring compact and weakly compact operators through reflexive Banach lattices (with O. Burkinshaw), *Trans. Amer. Math. Soc.* **283** (1984), 369–381. **MR** 85e:47025.
24. Projecting onto the band of kernel operators (with O. Burkinshaw), *Houston J. Math.* **11** (1985), 7–13. **MR** 86d:47045.
25. Examples of excess demand functions on infinite dimensional commodity spaces (with O. Burkinshaw and D. J. Brown). *Advances in Equilibrium Theory*, Springer-Verlag Lecture Notes in Economics and Mathematical Systems # 244, pp. 133–146, 1985. **MR** 88d:90030.
26. On the ring ideal generated by a positive operator (with O. Burkinshaw), *J. Functional Analysis* **67** (1986), 60–72. **MR** 87h:47085.
27. Edgeworth equilibria (with D. J. Brown and O. Burkinshaw), *Econometrica* **55** (1987), 1109–1137. **MR** 89c:90025.
28. Edgeworth equilibria in production economies (with D. J. Brown and O. Burkinshaw), *J. Economic Theory* **43** (1987), 252–291. **MR** 89i:90016.
29. An economy with infinite dimensional commodity space and empty core (with D. J. Brown and O. Burkinshaw), *Economics Letters* **23** (1987), 1–4. **MR** 88f:90036.
30. The fundamental theorems of welfare economics without proper preferences (with O. Burkinshaw), *J. Math. Econom.* **17** (1988), 41–54. **MR** 89e:90047.
31. Equilibria in exchange economies with a countable number of agents (with D. J. Brown and O. Burkinshaw), *J. Math. Analysis and Applications* **142** (1989), 250–299. **MR** 91m:90026.
32. Valuation and optimality in the overlapping generations model (with D. J. Brown and O. Burkinshaw), *International Economic Review* **31** (1990), 275–288. **MR** 91g:90031.
33. An overlapping generations model core equivalence theorem (with O. Burkinshaw), *J. Econom. Theory* **50** (1990), 362–380. **MR** 91c:90016.
34. The Daugavet equation in uniformly convex Banach spaces (with Y. Abramovich and O. Burkinshaw), *J. Functional Analysis* **97** (1991), 215–230. **MR** 92i:47005.
35. When is the core equivalence theorem valid? (with O. Burkinshaw), *Economic Theory* **1** (1991), 169–182. **MR** 92b:90065.
36. Valuation and optimality in exchange economies with a countable number of agents (with D. J. Brown and O. Burkinshaw), in: *Positive Operators, Riesz Spaces, and Economics*, (Studies in Economic Theory # 2, Springer-Verlag, Berlin, 1991), pp. 1–21. **Zbl** **761** # 90013.
37. Irreducible positive operators and hyperinvariant ideals (with Y. A. Abramovich and O. Burkinshaw), in: *Positive Operators, Riesz Spaces, and Economics*, (Studies in Economic Theory # 2, Springer-Verlag, Berlin, 1991), pp. 225–229. **Zbl** **772** # 47018.
38. Competitive equilibria in overlapping generations experiments (with C. R. Plott), *Economic Theory* **2** (1992), 389–426.
39. Positive operators on Krein spaces (with Y. A. Abramovich and O. Burkinshaw), *Acta Appl. Math.* **27** (1992), 1–22. **MR** 93h:47045.
40. On the spectral radius of positive operators (with Y. A. Abramovich and O. Burkinshaw), *Math. Zeitschrift* **211** (1992), 593–607. **MR** 94a:47064.

41. Price dynamics in overlapping generations environments (with D. R. Schmidt), *Economic Theory* **3** (1993), 541–563. **MR** 94h:90010.
42. An elementary proof of Douglas’ theorem on contractive projections on L_1 -spaces (with Y. A. Abramovich and O. Burkinshaw), *J. Math. Analysis and Applications* **177** (1993), 641–644. **MR** 94j:47043.
43. Invariant subspaces of operators on ℓ_p -spaces (with Y. A. Abramovich and O. Burkinshaw), *J. Functional Analysis* **115** (1993), 418–424. **MR** 94h:47009.
44. Invariant subspaces for positive operators (with Y. A. Abramovich and O. Burkinshaw), *J. Functional Analysis* **124** (1994), 95–111. **MR** 95e:47006.
45. Positive projections and lattice-subspaces (with Y. A. Abramovich and I. A. Polyrakis), *Proc. Royal Irish Acad. Sect. A* **94A** (1994), 237–253. **MR** 97b:46010.
46. A representation theorem for Riesz spaces and its applications to economics (with Y. A. Abramovich and W. R. Zame), *Economic Theory* **5** (1995), 527–535. **MR** 96h:90036.
47. Another characterization of the invariant subspace problem (with Y. A. Abramovich and O. Burkinshaw), in: *Operator Theory in Function Spaces and Banach Lattices*, (Operator Theory Advances and Applications #75, Birkhäuser Verlag, Berlin, 1995), pp. 15–31. **MR** 96c:47004.
48. Invariant subspaces for positive operators acting on a Banach space with basis (with Y. A. Abramovich and O. Burkinshaw), *Proceedings Amer. Math. Soc.* **123** (1995), 1773–1777. **MR** 95g:47005.
49. Quasinilpotence, cycles and invariant subspaces (with Y. A. Abramovich and O. Burkinshaw), in: N. Kalton, E. Saab and S. Montgomery-Smith Eds., *Interaction Between Functional Analysis, Harmonic Analysis, and Probability* (Marcel Dekker, New York, 1995), 1–12. **MR** 96h:47007.
50. Some remarks on surjective and bounded below operators (with Y. A. Abramovich and I. A. Polyrakis), *Atti Sem. Mat. Fis. Univ. Modena* **44** (1996), 455–464. **MR** 98b:47002.
51. Market economies with many commodities (with K. C. Border and O. Burkinshaw), *Rivista di Matematica per le Scienze Economiche e Sociali* **19** (1996), 113–185. **MR** 99i:90025.
52. On the Mas-Colell–Richard equilibrium theorem, *Journal of Economic Theory* **74** (1997), 414–424. **MR** 98e:90040.
53. New proof of the existence of equilibrium in a single sector growth model (with K. C. Border and O. Burkinshaw), *Macroeconomic Dynamics* **1** (1997), 669–679.
54. Problem #10586, *American Mathematical Monthly* **104**, No. 4, 1997, p. 361.
55. Multiplication and compact-friendly operators (with Y. A. Abramovich and O. Burkinshaw), *Positivity* **1** (1997), 171–180. **MR** 99k:47076.
56. Separable utility functions, *J. Math. Economics* **28** (1997), 415–444. **MR** 99a:90050.
57. Economies with many commodities (with K. C. Border and O. Burkinshaw), *J. Economic Theory* **74** (1997), 62–105. **MR** 98c:90031.
58. Portfolio dominance and optimality in infinite security markets (with D. J. Brown, I. A. Polyrakis and J. Werner), *J. Math. Economics* **30** (1998), 347–366. **MR** 2000a:91055.
59. Yudin cones and inductive limit topologies (with D. J. Brown, I. A. Polyrakis and J. Werner), *Atti. Sem. Mat. Fis. Univ. Modena* **46** (1998), 389–412. **MR** 2000f:91050.
60. The invariant subspace problem: some recent advances (with Y. A. Abramovich and O. Burkinshaw), *Rend. Istit. Mat. Univ. Trieste* **29** (1998), 1–76. **MR** 2000f:47062.

61. A characterization of compact-friendly multiplication operators (with Y. A. Abramovich, O. Burkinshaw and A. Wickstead), *Indagationes Mathematicae N. S.* **10** (1999), 161–171. **MR** 2001m:47062.
62. On the backward induction method, *Economics Letters* **64** (1999), 125–131. **MR** 2000f:91006.
63. Cone conditions in general equilibrium (with R. Tourky and N. C. Yannelis), *J. Economic Theory* **92** (2000), 96–121. **MR** 2001i:91083.
64. The Riesz–Kantorovich formula in general equilibrium theory (with R. Tourky and N. C. Yannelis), *J. Mathematical Economics* **34** (2000), 55–76. **MR** 2001i:91088.
65. Minimum-cost portfolio insurance (with D. J. Brown and J. Werner), *J. Economic Dynamics and Control* **24** (2000), 1703–1719. **MR** 2000f:91038.
66. Positive operators (with Y. A. Abramovich), in: W. B. Johnson and J. Lindenstrauss, Eds., *Handbook of the Geometry of Banach Spaces*, Vol. 1, (Elsevier North-Holland, Amsterdam and New York, 2001), Chapter 2, pp. 85–122. **MR** 2003e:47071
67. A theory of value with non-linear prices: equilibrium analysis beyond vector lattices (with R. Tourky and N. C. Yannelis), *J. Economic Theory* **100** (2001), 22–72. **MR** 2002e:91047
68. The super order dual of an ordered vector space and the Riesz–Kantorovich formula (with R. Tourky), *Transactions Amer. Math. Society* **354** (2002), 2055–2077. **MR** 2002k:46011
69. The cheapest hedge (with Y. A. Polyakis and R. Tourky), *J. Mathematical Economics* **37** (2002), 269–295. **MR** 2003g:91051
70. Markets that don't replicate any option (with R. Tourky), *Economics Letters* **76** (2002), 437–442.
71. Economic equilibrium: optimality and price decentralization (with B. Cornet and R. Tourky), *Positivity* **6** (2002), 205–241. **MR** 2003i:90113
72. Introduction to an economic problem: a modeling perspective (with G. Carmona), in: R. Lesh and H. M. Doerr, eds., *Beyond Constructivism: Models and Modeling Perspectives on Mathematics Problem Solving, Learning, and Teaching*, Mahwah, Lawrence Erlbaum Associates, NJ, 2003, Chapter 14, pp. 255–264.
73. Non-marketed options, non-existence of equilibrium, and non-linear prices (with P. K. Monteiro and R. Tourky), *J. Economic Theory* **114** (2004), 345–357. **MR** 2004k:91079
74. General equilibrium analysis in ordered topological vector spaces (with M. Florenzano and R. Tourky), *J. Mathematical Economics* **40** (2004), 247–269. **MR** 2005e:91112
75. Equilibrium analysis in financial markets with countably many securities (with M. Florenzano, V. F. Martins Da Rocha, and R. Tourky), *J. Mathematical Economics* **40** (2004), 683–699. **MR** 2006g:91061
76. Linear and non-linear price decentralization (with M. Florenzano and R. Tourky), *J. Economic Theory* **121** (2005), 51–74. **MR** 2006f:91050
77. Some open problems and conjectures associated with the invariant subspace problem (with Y. A. Abramovich, G. Sirotkin and V. G. Troitsky), *Positivity* **9** (2005), 273–286. **MR** 2006k:47011
78. Piecewise linear functions, (with D. Harris and R. Tourky), *Macroeconomic Dynamics* **10** (2006), 77–99.
79. The joint continuity of the expected payoff functions (with D. Glycopantis and D. Puzzello), *J. Mathematical Economics* **42** (2006), 121–130. **MR** 2006k:91006
80. Matching and anonymity (with G. Camera and D. Puzzello), *Economic Theory* **29** (2006), 415–432. **MR** 2007d:91143

81. Production equilibria (with M. Florenzano and R. Tourky), *Journal of Mathematical Economics* **42** (2006), 406–421.
82. Game theory in decision making (with S. K. Chakrabarti), in: K. E. Lewis, W. Chen, and L. C. Schmidt Eds., *Decision Making in Engineering Design* (The ASME Press, 2006), 245–264.
83. Riesz estimators (with D. Harris and R. Tourky), *Journal of Econometrics* **136** (2007), 431–456.
84. Contagion equilibria in a monetary model (with G. Camera and D. Puzzello), *Econometrica* **75** (2007), 277–282.
85. Bilateral matching and Latin squares (with G. Camera and D. Puzzello), *Journal of Mathematical Economics* **43** (2007), 99–114.
86. A random matching theory (with G. Camera and D. Puzzello), *Games and Economic Behavior* **59** (2007), 1–16.
87. Anonymous markets and monetary trading (with G. Camera and D. Puzzello), *Journal of Monetary Economics* **54** (2007), 1905–1928.
88. Interior optima and the Inada conditions (with G. Camera and F. Ruscitti), *Economics Letters* **99** (2008), 293–297.
89. Equilibria in incomplete assets economies with infinite dimensional spot markets (with R. Tourky), *Economic Theory*, forthcoming. Krannert Working Paper #1169, Purdue University, 2004.
90. Monetary equilibrium and the differentiability of the value function (with G. Camera and F. Ruscitti), *J. Economic Dynamics and Control*, forthcoming. Krannert Working Paper #1199, Purdue University, 2007.
91. A correspondence-theoretic approach to dynamic optimization (with G. Camera), *Macroeconomic Dynamics*, forthcoming.
92. On mixed and behavioural strategies (with D. Glycopantis and A. Muir), preprint.
93. The wedge of arbitrage free prices: anything goes (with M. Florenzano, D. Puzzello, and R. Tourky), preprint.

BOOK REVIEWS

1. **Banach Lattices** by P. Meyer-Nieberg, *Bulletin American Math. Society* **28** (1993), 190–194.
2. **Introduction to operator theory in Riesz spaces** by A. C. Zaanen, *Mathematical Reviews*, 2000c:47074
3. **Mathematical Methods for Economic Theory, I & II** by J. C. Moore, *Mathematical Reviews*, 2000k:91025ab.
4. **Dominated Operators** by Anatoly G. Kusraev, *Mathematical Reviews*, 2002b:47077.
5. **Exercises in Functional Analysis** by C. Costara and D. Popa, *Mathematical Reviews*, 2005b:46001.

GUEST EDITOR OF SPECIAL JOURNAL ISSUES

1. Special issue of *Positivity* on Mathematical Economics (co-edited with B. Cornet and R. Tourky), Volume 6, #3, 2002.
2. Special issue of *Economic Theory* in honor of Mordecai Kurz (co-edited with K. J. Arrow, P.

Hammond, F. Kubler, H.-M. Wu and N. C. Yannelis), Volume 21, # 2–3, 2003.

3. Special issue of *Economic Theory* in honor of Marcel K. Richter (co-edited with R. L. Matzkin, D. McFadden, J. C. Moore and N. C. Yannelis), Volume 26, # 2, 2005.
4. Special issue of *Positivity* in memoriam of Y. A. Abramovich and A. C. Zaanen, Volume 9, # 3, 2005.
5. Special issue of *Economic Theory* in honor of Mukul Majumdar (co-edited with T. Mitra, K. Nishimura and R. Radner), Volume 29, # 2, 2006.
6. Special issue of the *Journal of Econometrics* on the “Interface Between Econometrics and Economic Theory” (co-edited with W. Barnett, B. Cornet and S. Durlauf), Volume 136, # 2, 2007.

INVITED TALKS

1. Indiana University-Purdue University at Indianapolis, Math Colloquium, March 18, 1975.
2. International Conference on *Riesz Spaces*, Oberwolfach, West Germany, June 24, 1975.
3. International Conference on *Riesz Spaces and Positive Operators*, Oberwolfach, West Germany, June 21, 1977.
4. Greek Mathematical Society, Athens, July 7, 1977.
5. University of Arkansas-Fayetteville, Math Colloquium, March 15, 1979.
6. International Conference on *Riesz Spaces and Positive Operators*, Oberwolfach, West Germany, June 25, 1979.
7. Indiana Functional Analysis Seminar, Wabash College, March 29, 1981.
8. Indiana State University, Math Colloquium, April 25, 1981.
9. University of Southern California, Math Colloquium, September 9, 1981.
10. California Institute of Technology, Math Colloquium, January 19, 1982.
11. Claremont Colleges, Math Colloquium, April 10, 1982.
12. Vanderbilt University, Math Colloquium, April 13, 1982.
13. University of Arkansas-Fayetteville, Math Colloquium, April 16, 1982.
14. Southern California Functional Analysis Seminar, April 24, 1982.
15. University of California-Berkeley, Economics Colloquium, May 17, 1982.
16. University of California-Riverside, Math Colloquium, May 18, 1982.
17. International Conference on “Positive Operators,” Oberwolfach, West Germany, June 30, 1982.
18. Indiana Functional Analysis Seminar, Wabash College, April 24, 1983.
19. Indiana University-Bloomington, Economics Colloquium, November 6, 1984.
20. International Conference on *Positive Operators*, Oberwolfach, West Germany, July 3, 1985.
21. Mathematical Sciences Research Institute, Berkeley, November 4, 1985.
22. University of Southern California, Math Colloquium, March 12, 1986.
23. California Institute of Technology, Math Colloquium, March 13, 1986.
24. Conference on *Riesz Spaces, Positive Operators and Applications*, University of Mississippi, March 20, 1986.
25. University of Illinois-Urbana, Economics Colloquium, April 4, 1986.

26. Purdue University, Economics Colloquium, April 18, 1986.
27. University of Iowa, Economics Colloquium, April 18, 1986.
28. California State University at Long Beach, Math Colloquium, November 7, 1986.
29. Indiana University-Bloomington, Economics Colloquium, April 16, 1987.
30. Northwestern University, NBER Economics Conference, March 5, 1988.
31. University of Houston-Downtown, Math. Colloquium, April 6, 1988.
32. University of Illinois at Urbana, Economics Colloquium, April 8, 1988.
33. International Conference on *Riesz Spaces and Positive Operators*, Oberwolfach, West Germany, April 24, 1989.
34. University of Southern California, Math Colloquium, October 19, 1989.
35. Stanford University, Economics Colloquium, December 5, 1989.
36. Claremont Colleges, Mathematics Colloquium, February 28, 1990.
37. University of California at Santa Barbara, Mathematics Colloquium, March 8, 1990.
38. Southern California Functional Analysis Seminar, March 10, 1990.
39. University of Illinois-Urbana, Economics Colloquium, March 30, 1990.
40. University of California-Riverside, Math Colloquium, May 21, 1990.
41. International Conference on *Semigroups of Positive Operators on Banach Lattices*, Curaçao, Netherlands-Antilles, June 28, 1990.
42. SUNY at Albany, Economics Colloquium, October 19, 1990.
43. Mid-Western Math Economics Conference, University of Illinois, November 9, 1990.
44. University of Arizona, Economics Colloquium, April 5, 1991.
45. University of Athens (Greece), Mathematics Colloquium, September 22, 1991.
46. California Institute of Technology, Mathematics Colloquium, November 9, 1991.
47. University of Arizona, Economics Colloquium, December 3, 1991.
48. University of Pennsylvania, Economics Colloquium, April 17, 1992.
49. International Conference on *Real Analysis and Measure Theory*, Capri, Italy, September 11, 1992.
50. Indiana University-Bloomington, Mathematics Colloquium, November 18, 1992.
51. California Institute of Technology, Economics Colloquium, December 7, 1992.
52. California Institute of Technology, Mathematics Colloquium, December 9, 1992.
53. Cornell University, Economics Colloquium, April 8, 1993.
54. Purdue University, Economics Colloquium, April 29, 1993.
55. Athens Institute of Technology (Greece), Mathematics Colloquium, May 19, 1993.
56. Wabash Mini-conference on Functional Analysis, Bloomington, IN, October 10, 1993.
57. Purdue University, Economics Colloquium, December 10, 1993.
58. International Conference on "Mathematical Economics," Oberwolfach, Germany, March 1, 1994.
59. University of California-Berkeley, Economics Colloquium, May 9, 1994.
60. International Conference on *Real Analysis and Measure Theory*, Ischia, Italy, July 4, 1994.

61. Conference on *Non-Linear Analysis*, University of the Aegean, Samos, Greece, July 8, 1994.
62. Indiana Functional Analysis Seminar, Wabash College, September 10, 1994.
63. Columbia University, Economics Colloquium, April 13, 1995.
64. Symposium on *Economic Growth*, University of Patras, Greece, May 30, 1995.
65. Conference on *Non-Linear Analysis*, University of the Aegean, Samos, Greece, July 14, 1995.
66. Symposium on *Banach Function Spaces*, University of Delft, Holland, October 2, 1995.
67. International Conference on *Games and Markets*, University of Toronto, Canada, October 19, 1995.
68. Central Section Meeting of the American Mathematical Society, Kent State University, Ohio, November 3, 1995.
69. Cornell University, Economics Colloquium, February 1, 1996.
70. California Institute of Technology, Economics Colloquium, May 14, 1996.
71. International conference on *Applied Analysis*, University of the Aegean, Samos, Greece, July 9, 1996.
72. International Conference on *Real Analysis and Measure Theory*, Ischia, Italy, July 18, 1996.
73. Central Section Meeting of the American Mathematical Society, Lawrenceville, New Jersey, October 6, 1996.
74. University of Minnesota, Economics Colloquium, November 11, 1996.
75. Athens Institute of Technology (Greece), Mathematics Colloquium, December 16, 1996.
76. International Conference in *Equilibrium Theory*, Zinal, Switzerland, January 7, 1997. (Invited Speaker.)
77. International Conference in *Economic Theory*, Venice, Italy, June 2–7, 1997. (Invited speaker; presented three talks.)
78. University of Napoli, Joint Mathematics-Economics Colloquium, June 9, 1997.
79. University of Napoli, Finance Colloquium, June 11, 1997.
80. International Conference on *Economic Theory and Applications*, Antalya, Turkey, June 18, 1997.
81. University of Athens (Greece), Mathematics Colloquium, June 24, 1997.
82. Stanford Institute for Theoretical Economics, Stanford University, July 24, 1997.
83. Purdue University, Mathematics Colloquium, September 3, 1997.
84. Conference of the *Italian Association of Economists* (AMASES), Rome, September 12, 1997.
85. Purdue University, Economics Colloquium, October 23, 1997.
86. Midwest Economic Theory and International Trade Conference, Indiana University, October 25, 1997.
87. International Conference on *Function Spaces*, Southern Illinois University at Edwardsville, May 22, 1998.
88. International Conference on *Positivity and its Applications*, Middle Eastern Technical University, Ankara, Turkey, June 24, 1998.
89. Bogazisi University, Istanbul, Turkey, Math-Econ Colloquium, June 27, 1998.
90. Workshop on Mathematical Economics, Napoli, Italy, June 22–July 10, 1998. (Invited Speaker; presented a mini-course in equilibrium theory.)

91. University of Athens, Greece, Math-Econ Colloquium, November 19, 1998.
92. University of Nejmegen (Holland), Math Colloquium, February 22, 1999.
93. Delft Institute of Technology (Holland), Math Colloquium, February 24, 1999.
94. Washington University, St. Louis, Economics Colloquium, March 12, 1999.
95. Kent State University, Special Workshop on “Analysis and its Applications,” April 24, 1999.
96. Midwest Economics Theory Conference, Purdue University, May 1, 1999.
97. University of Napoli, Joint Mathematics-Economics Colloquium, June 9, 1999.
98. 2nd Summer School in Economic Theory, Napoli, Italy, May 24–June 11, 1999. (Organizer and Invited Speaker; presented a mini-course in Game Theory.)
99. The 22nd Bosphorus Workshop on Economic Design, Marmaris, Turkey, July 26, 1999.
100. Conference of the Society of the Advancement of Economic Theory *Current Trends in Economics*,” Rodos Island, Greece, July 6, 1999.
101. University of Illinois, Urbana, Economics Colloquium, September 8, 1999.
102. University of Athens, Greece, Math-Econ Colloquium, October 13, 1999.
103. University of Paris 1-Sorbonne, France, Math-Econ Colloquium, October 22, 1999.
104. Wabash Modern Analysis Conference, Indianapolis, October 30, 1999. (Invited Speaker.)
105. University of Pennsylvania, Philadelphia, Economics Colloquium, November 5, 1999
106. Rice University, Houston, Economics Colloquium, November 18, 1999
107. NBER General Equilibrium Conference, New York University, April 29, 2000
108. 3rd Summer School in Economic Theory, Napoli, Italy, May 22–June 9, 2000. (Organizer and Invited Speaker; presented a mini-course in Finance Theory.)
109. University of Athens, Greece, Math-Econ Colloquium, June 15, 2000
110. Conference on Economic Design, Istanbul, Turkey, June 26, 2000
111. 3rd Summer School in Economic Theory, Napoli, Italy, May 22–June 9, 2000. (Organizer and Invited Speaker; presented a mini-course in Finance Theory.)
112. Summer School-Master’s Program in Business Mathematics (University of Athens), Andros, Greece, July 3–14. (Presented a mini-course in Games and Decisions.)
113. International Conference on *Mathematical Analysis and its Applications*, National Technical University of Athens, Greece, August 25, 2000. (Invited Speaker.)
114. Johns Hopkins University, Baltimore, Economics Colloquium, September 18, 2000
115. University of Iowa, Iowa City, Economics Colloquium, October 25, 2000
116. Greek Mathematical Society, Athens, Greece, November 11, 2000 (Invited Talk)
117. University of Calabria, Cosenza, Italy, Math-Econ Colloquium, June 27, 2001
118. First International Workshop on *Functional Analysis Methods in Economics and Finance*, Diamante (Cosenza) Italy, June 30, 2001 (Invited Talk)
119. Fifth International Conference of *The Society for the Advancement of Economic Theory*, Ischia, Italy, July 8, 2001
120. Second International Conference on *Positivity and its Applications*, University of Nijmegen, Holland, July 13, 2001 (Invited Talk)

121. Workshop on *Decision Making and Engineering*, UC Irvine, October 7, 2001 (Sponsored by NSF, Invited Speaker and Member of the Organizing Committee)
122. University of Melbourne, Australia, Economics Colloquium, November 9, 2001
123. University of Kansas, Lawrence, Kansas, Economics Colloquium, December 7, 2001
124. Annual Meeting of the American mathematical Society, San Diego, California, January 8, 2002 (Invited Talk)
125. University of Warwick, England, Economics Colloquium, March 14, 2002
126. University of Texas at Austin, Economics Colloquium, April 10, 2002.
127. University of Texas at Austin, Mathematics Colloquium, April 11, 2002.
128. European Conference on General Equilibrium, Athens, Greece, May 17, 2002 (Invited Talk)
129. University of Paris 1-Sorbonne, France, Math-Econ Colloquium, May 29, 2002.
130. Summer School in Economic and Econometric Theory, Mediterranean Agronomic Institute of Chania, Greece, July 3, 2002.
131. International Conference on *Real Analysis and Measure Theory*, Ischia, Italy, July 16, 2002.
132. University of Iowa, Economics Colloquium, July 23, 2002.
133. Conference in Honor of Mordecai Kurz, Stanford University, August 3, 2002.
134. University of New South Wales, Sydney, Australia, Economics Colloquium, November 13, 2002.
135. University of Sydney, Australia, Economics Colloquium, November 14, 2002.
136. Midwest Mathematical Economics Conference, Indiana University, Bloomington, IN, October 18, 2003
137. Wabash Extramural Modern Analysis Miniconference, IUPUI, November 2, 2003 (Invited Talk)
138. 15th International Conference on Game Theory at Stony Brook, SUNY at Stony Brook, July 12, 2004 (Invited Speaker)
139. University of Vienna, Austria, Economics Colloquium, October 7, 2004
140. University of Paris 1-Sorbonne, France, Economics Colloquium, October 8, 2004
141. Oxford University, UK, Economics Colloquium, October 14, 2004
142. University of Memphis, Mathematics Colloquium, November 4, 2004
143. University of Mississippi, Mathematics Colloquium, November 5, 2004
144. 7th International Conference of the Society for the Advancement of Economic Theory, Baiona-Vigo, Spain, June 28, 2005
145. International Conference on Modern Mathematical Methods in Science and Technology, Island of Paros, Greece, September 7, 2006
146. Workshop in Economic Theory, University of Vigo, Spain, February 2, 2007
147. Notre Dame University, Center of Applied Mathematics, March 8, 2007
148. Notre Dame University, Economics Colloquium, March 9, 2007
149. University of Queensland, Australia, Economics Colloquium, May 29, 2007
150. International Conference, POSITIVITY V, Belfast, Ireland, July 23, 2007
151. Conference on Economic Theory, University of Kansas, November 12, 2007 (Invited Speaker)
152. Conference in honor of Wayne Shaefer, University of Illinois at Urbana-Champaign, May 2, 2008. (Invited one hour talk.)

MISCELLANEOUS

- a. I have presented papers at the annual meetings of the American Mathematical Society.
- b. I have helped Professor Tom Apostol in the revision of his book “Mathematical Analysis,” Addison-Wesley, 1974. An acknowledgment of my services appears in the preface of this classic book.
- c. Due to my industrial experience, I am familiar with most computer systems.
- d. I co-organized a special session on “Riesz Spaces and Positive Operators” at the annual meeting of AMS in San Antonio (January 1980).
- e. I am a regular reviewer for MATH REVIEWS.
- f. I have refereed papers for the following journals:
 1. Algebra Universalis
 2. American Economic Review
 3. American Mathematical Monthly
 4. Annali di Matematica Pura ed Applicata
 5. Applied Mathematics Letters
 6. Bulletin of the Greek Mathematical Society
 7. Canadian Mathematical Bulletin
 8. Canadian Mathematical Journal
 9. Central European Journal of Mathematics
 10. Collectanea Mathematica
 11. Commentationes Mathematicae Universitatis Carolinae
 12. Computers and Mathematics with Applications
 13. Econometrica
 14. Economic Theory
 15. European Journal of Operational Research
 16. Georgian Mathematical Journal
 17. Glasnik Matematički
 18. Houston Journal of Mathematics
 19. Illinois Journal of Mathematics
 20. Indagationes Mathematicae
 21. Integral Equations and Operator Theory
 22. International Economic Review
 23. International Journal of Mathematics and Mathematical Sciences
 24. Journal of Applied Mathematics and Decision Sciences
 25. Journal of Australian Mathematical Society
 26. Journal of Economic Behavior and Organization
 27. Journal of Economic Dynamics and Control
 28. Journal of Economic Theory
 29. Journal of Functional Analysis
 30. Journal of Indian Academy of Sciences
 31. Journal of Mathematical Analysis and Applications
 32. Journal of Mathematical Economics

33. Journal of Operator Theory
34. Mathematische Annalen
35. Operators and Matrices
36. Optimal Control Applications and Methods
37. Optimization
38. Pacific Journal of Mathematics
39. Panamerican Mathematical Journal
40. Positivity
41. Proceedings of American Mathematical Society
42. Proceedings Royal Society of Edinburgh
43. Publicationes Mathematicae
44. Quaestiones Mathematicae
45. Rocky Mountain Journal of Mathematics
46. Real Analysis Exchange
47. Taiwanese Journal of Mathematics
48. The College Mathematics Journal
49. The Journal of Economic Education
50. Transactions of American Mathematical Society
51. Turkish Journal of Mathematics

- g. I co-organized a conference on General Equilibrium Theory at IUPUI (February 10-12, 1984) whose proceedings appeared in Volume # 244 of the Springer-Verlag Lecture Notes in Economics and Mathematical Systems.
- h. On April 21, 1989, I received the IUPUI Excellence in Service award.
- i. I organized or co-organized the following meetings:
 1. A special session on Mathematical Economics at the midwest meeting of the American Mathematical Society, March 15–17, 1991.
 2. The Fall Midwest Mathematical Economics Conference at IUPUI, October 25–27, 1991.
 3. The international conference *Current Trends in Economics* in Cephalonia, Greece, May 23–31, 1993.
 4. The Wabash Functional Analysis Conference, October 29–30, 1994.
 5. The international conference *Current Trends in Economics* in Cephalonia, Greece, May 22–28, 1995.
 6. The NBER conference in *General equilibrium Theory* at Purdue University, West Lafayette, Indiana, April 10–11, 1999.
 7. The international conference *Current Trends in Economics* in Rodos, Greece, July 2–8, 1999.
 8. The fifth international conference of *The Society for the Advancement of Economic Theory*, Ischia, Italy, July 2–8, 2001.
 9. The second international conference on *Positivity and its Applications*, University of Nijmegen, The Netherlands, July 9–13, 2001.
 10. The 7th *European General Equilibrium Theory*, Athens, Greece, May 17–19, 2002.

11. Workshop on Stochastic Models of Dynamic Economic Equilibrium, Stanford Institute for Theoretical Economics, July 30-August 1, 2002.
 12. Conference in honor of Mordecai Kurz, Stanford Institute for Theoretical Economics, August 2–3, 2002.
 13. The sixth international conference of *The Society for the Advancement of Economic Theory*, Rodos, Greece, June 30–July 6, 2003.
 14. The international mathematical conference of *Positivity*, Rodos, Greece, June 30–July 4, 2003.
 15. The seventh international conference of *The Society for the Advancement of Economic Theory*, Baiona-Vigo, Spain, June 27–July 3, 2005.
 16. The eighth international conference of *The Society for the Advancement of Economic Theory*, Kos, Greece, June 18–24, 2007.
- i. A conference in my honor on Economic Theory was organized at the University of Kansas, Lawrence, Kansas, on Monday, November 12, 2007. Its website is the following.

http://www.economics.ku.edu/conference/theory_11-12-07.shtml

- j. I am a member of the Advisory Board of the **Economic Theory Centre** of the University of Melbourne, Australia.