

# ANTONIO VILLAR

## CURRICULUM VITAE

### GENERAL INFORMATION

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### ACADEMIC BACKGROUND

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- Doctor (Doctor of Philosophy), University of Oxford, 1990 (Thesis: "Complementarity Problems, Related Equation Systems and its Application to Economic Analysis", supervised by Christopher Bliss and James Mirrlees)
- Doctor (Doctor in Economics Science), Universidad de Alicante, 1983 (Thesis: "Money and Distribution in a Linear Multisector Economy")
- B.A. in Economics ("Degree in Economics"), University of Valencia, 1978.

### VISITING POSITIONS ABROAD

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- 2015: Visiting Professor at the European University Institute, Florence (Fernand Braudel Fellow)
- 2014: Visiting Professor at the Cardiff Business School
- 2014: Visiting Professor at the European University Institute (Florence)
- 2012: Visiting Professor at the Department of Mathematics for Decision Making, University of Florence
- 2011: Visiting Researcher at the University of York
- 2010: Senior Associate at St. Antony's College, University of Oxford
- 2002-2003: Visiting Professor (Salvador de Madariaga Fellow) at the European University Institute (Florence, Italy)
- 2001: Visiting Professor at the Institute for Advanced Studies (Vienna)
- 1997: Visiting Professor (Salvador de Madariaga Fellow) at the European University Institute (Florence, Italy)
- 1992-1993: Visiting Scholar (Department of Economics) at Stanford University
- 1988: Visiting Researcher at the Center for Operations Research and Econometrics, Louvain-la-Neuve (Belgium)

## AWARDS AND DISTINCTIONS

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- 2010 - XVI Premio Andalucía de Investigación Ibn al Jatib en Humanidades y Ciencias Sociales (22 March 2010)
- 2005 - Researcher of recognized standing, Junta de Andalucía

## CURRENT POSITION

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- Professor, Department of Economics, University Pablo de Olavide
- Research Professor, Ivie (The Valencian Institute of Economic Research)

## TEACHING EXPERIENCE

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- Introduction to Economics, for first year undergraduate students.
- Microeconomics, for second, third and fourth year undergraduate students.
- Macroeconomics, for third and fourth year undergraduate students.
- Microeconomic Theory, for first year doctoral students (Q.E.D. program -Alicante, Universidad Pablo Olavide, Institute for Advanced Studies -Vienna).
- General Equilibrium, for second year doctoral students (Q.E.D. program -Alicante, Paris-Nanterre).
- Inequality measurement, Master in Economics (Pablo de Olavide).
- Inequality, poverty and welfare, Graduate program at the European University Institute (Florence).

## PUBLICATIONS

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### BOOKS

1. Villar, A. (2017): *Lectures on Inequality, Poverty and Welfare*. Cham, Suiza: Springer International Publishing.
2. Herrero, C., A. Soler and A. Villar (2013): *Desarrollo humano en España: 1980-2011*. Valencia: Ivie, 54 pp.
3. Herrero, C., A. Soler and A. Villar (2013): *La pobreza en España y sus comunidades autónomas: 2006-2011*. Valencia: Ivie, 38 pp.
4. Pérez, F. (dir.), A. Villar, F.J. Goerlich, J.M. Pastor, J. Aldás-Manzano, A. Fernández, R. Aragón and V. Cucarella (2013): *Rankings ISSUE 2013: Indicadores sintéticos de las universidades españolas*. Valencia: Ivie, 53 pp.
5. Villar, A. (coord.), S. De la Rica, J.I. García, A. González, M. Hidalgo, J.A. Robles, L. Serrano and A. Soler (2012): *Educación y desarrollo: PISA 2009 y el sistema educativo español*. Bilbao: Fundación BBVA, 337 pp.
6. Herrero, C., A. Soler and A. Villar (2010): *Desarrollo humano en España. 1980-2007*. Valencia: Fundación Bancaja, 441 pp.

7. Villar, A. (2010): *Desarrollo humano. 1980-2010*. Valencia: Fundación Bancaja e Ivie, 23 pp.
8. Villar, A. (dir.), S. De la Rica, A. Denia, M. Domínguez, L. Gálvez, F.J. Goerlich, M.D. Guilló and P. Rodríguez (2010): *Mujeres y mercado laboral en España: cuatro estudios sobre la discriminación salarial y la segregación laboral*. Bilbao: Fundación BBVA, 189 pp.
9. Goerlich, F.J. and A. Villar (2009): *Desigualdad y bienestar social: de la teoría a la práctica*. Bilbao: Fundación BBVA, 616 pp.
10. Villar, A. (2009): *Curso de microeconomía avanzada: Un enfoque de equilibrio general*. Barcelona: Antoni Bosch Editor, 304 pp.
11. Villar, A. (2006): *Microeconomía*. Madrid: McGraw-Hill, 300 pp.
12. Villar, A. (2005): *Decisiones racionales*. Madrid: McGraw-Hill.
13. Herrero, C., A. Soler and A. Villar (2004): *Capital Humano y Desarrollo Humano en España, sus Comunidades Autónomas y Provincias. 1980-2000*. Valencia: Fundación Bancaja, 487 pp.
14. Villar, A. and A. Soler (2002): *Mejoras educativas y actividad económica en España: Un panorama de los cambios recientes 1990-2000*. Valencia: Bancaja, 272 pp.
15. Villar, A. (2000): *Equilibrium and Efficiency in Production Economies*. Berlín: Springer Verlag, 280 pp.
16. Villar, A. (1999): *Lecciones de microeconomía*. Barcelona: Antoni Bosch Editor, 453 pp.
17. Villar, A. (1996): *Curso de microeconomía avanzada*. Barcelona: Antoni Bosch Editor, 285 pp.
18. Villar, A. (1996): *General Equilibrium with Increasing Returns*. Berlin: Springer Verlag, 164 pp.
19. Villar, A. (1992): *Operator Theorems with Applications to Distributive Problems and Equilibrium Models*. Berlin: Springer Verlag, 160 pp.

#### BOOK CHAPTERS

1. Seth, S. and A. Villar (2016): "Human Development, Inequality and Poverty: Empirical Findings", in D'Ambrosio, C. (ed.): *Handbook of Research on Economic and Social Well-being*. Cheltenham (UK): Edward Elgar Publishing Ltd, forthcoming.
2. Seth, S. and A. Villar (2016): "The Measurement of Human Development and Poverty", in D'Ambrosio, C. (ed.): *Handbook of Research on Economic and Social Well-being*. Cheltenham (UK): Edward Elgar Publishing Ltd, forthcoming.
3. Villar, A. (2013): "Formación y habilidades cognitivas en la población adulta española", in *PIAAC: Programa Internacional para la Evaluación de las competencias de la población adulta. 2013. Volumen II: Análisis secundario*. Madrid: Instituto Nacional de Evaluación Educativa (INEE), Ministerio de Educación, Cultura y Deporte, pp. 191-213.
4. Villar, A. (2013): "Rendimiento, esfuerzo y productividad: Análisis de los resultados en matemáticas de los estudiantes españoles según Pisa 2012", in *PISA 2012: Programa para la Evaluación Internacional de los Alumnos. Informe español. Volumen II: Análisis secundario*. Madrid: Instituto Nacional de Evaluación Educativa (INEE), Ministerio de Educación, Cultura y Deporte, pp. 118-139.

5. Villar, A. (2012): "El índice de desarrollo educativo: Una aproximación multidimensional a la evaluación de los sistemas educativos a partir de los datos de PISA", in Villar, A. (coord.), S. De la Rica, J.I. García, A. González, M. Hidalgo, J.A. Robles, L. Serrano and A. Soler: *Educación y desarrollo: PISA 2009 y el sistema educativo español*. Bilbao: Fundación BBVA, pp. 79-113.
6. Villar, A. (2012): "PISA 2009 y el sistema educativo español: Una visión panorámica", in Villar, A. (coord.), S. De la Rica, J.I. García, A. González, M. Hidalgo, J.A. Robles, L. Serrano and A. Soler: *Educación y desarrollo: PISA 2009 y el sistema educativo español*. Bilbao: Fundación BBVA, pp. 17-51.
7. Villar, A. (2012): "Una estimación de la pobreza educativa a partir de los datos del informe PISA 2009", in Villar, A. (coord.), S. De la Rica, J.I. García, A. González, M. Hidalgo, J.A. Robles, L. Serrano and A. Soler: *Educación y desarrollo: PISA 2009 y el sistema educativo español*. Bilbao: Fundación BBVA, pp. 115-147.
8. Goerlich, F.J. and A. Villar (2010): "Discriminación social e igualdad de oportunidades", in Villar, A. (dir.), S. De la Rica, A. Denia, M. Domínguez, L. Gálvez, F.J. Goerlich, M.D. Guilló and P. Rodríguez: *Mujeres y mercado laboral en España: cuatro estudios sobre la discriminación salarial y la segregación laboral*. Bilbao: Fundación BBVA, pp. 139-175.
9. Villar, A. (2008): "Mathematics and markets: existence and efficiency of competitive equilibrium", in Delgado, J. M. and T. Domínguez eds.: *Advanced Courses of Mathematical Analysis III: Proceedings of the Third International School*. Hackensack: World Scientific, pp. 170-183.
10. Hammond, P. and A. Villar (1999): "Valuation Equilibrium Revisited", in Alkan, A., R. Aliprantis y N.C. Yanelis (eds.): *Current Trends in Economics: Theory and Applications*. Springer Verlag.
11. Herrero, C. and A. Villar (1999): "The Equal-Distance Rule in Allocation Problems with Single-Peaked Preferences", in Alkan, A., R. Aliprantis y N.C. Yanelis (eds.): *Current Trends in Economics: Theory and Applications*. Springer Verlag, pp. 215-223.
12. Hammond, P. and A. Villar (1998): "Efficiency with Nonconvexities: Extending the 'Scandinavian Consensus' Approaches", in Andersen, T.M. and K.O. Moene (eds.): *Public Policy and Economic Theory*. Oxford: Blackwell.
13. Villar, A. (1998): "A Comment of Rights, Exchange and Externalities", in Laslier, J.F. et al eds.: *Freedom in Economics*. London: Routledge.
14. Villar, A. (1996): "A Comment on Rights, Exchange and Externalities", in Fleurbaey, M. et al eds.: *Liberty, Rights and Opportunities*. London: Routledge.
15. Herrero, C. and A. Villar (1994): "La Asistencia Sanitaria como un Problema de Asignación en Presencia de Objetivos Inalcanzables", in López Casasnovas, G. (ed.): *Análisis Económico del Sector Sanitario*. Barcelona: Servei Català de la Salut.

#### ARTICLES

1. Albarran, P., C. Herrero, J. Ruiz-Castillo and A. Villar (2017): "The Herrero-Villar approach to citation impact", *Journal of Informetrics*, 11(2), May, pp. 625-640.
2. Villar, A. (2017): "Performance, Inclusion and Excellence: An Index of Educational Achievements for PISA", *Advances in Social Sciences Research Journal*, 4(3), February, pp. 100-115.

3. Villar, A. (2016): "How Bad Is Being Poor For Educational Performance? A Message from PISA 2012", *Advances in Social Sciences Research Journal*, 3(3), March.
4. Villar, A. and A. Zoido (2016): "Challenges to quality and equity in educational performance for Latin America, a PISA 2012 perspective", *Relieve (Revista electrónica de investigación y evaluación educativa)*, 22(1), pp. 1-13.
5. Porteiro, N. and A. Villar (2015): "Appointing high-court judges by political parties", *SERIEs: Journal of the Spanish Economic Association*, 6(1), March, pp. 91-99.
6. Herrero, C., I. Méndez and A. Villar (2014): "Analysis of group performance with categorical data when agents are heterogeneous: The evaluation of scholastic performance in the OECD through PISA", *Economics of Education Review*, 40, pp. 140-151.
7. Herrero, C. and A. Villar (2014): "Equality of opportunity with categorical data", *Lecturas de Economía*, 81, July-December, pp. 9-30.
8. Villar, A. (2014): "Education and Cognitive skills in the Spanish adult population inter-generational comparison of mathematical knowledge from the PIAAC data", *Advances in Social Sciences Research Journal*, 1(1), January, pp. 72-88.
9. Villar, A. (2014): "Igualdad de oportunidades educativas: Los resultados de PISA 2012 en España", *Avances en Supervisión Educativa*, 20, May, pp. 1-13.
10. Villar, A. (2014): "No es país para jóvenes", *Panorama Social*, 20, pp. 53-69.
11. Herrero, C., A. Soler and A. Villar (2013): "Desarrollo y pobreza en España y sus comunidades autónomas: El impacto de la crisis", *Papeles de Economía Española*, 138, (Special thematic issue "La economía de las regiones españolas en la crisis"), pp. 98-113.
12. Herrero, C. and A. Villar (2013): "On the comparison of group performance with categorical data", *PLoS ONE*, 8(12), December.
13. Villar, A. (2013): "The Educational Development Index: A multidimensional approach to educational achievements through PISA", *Modern Economy*, 4(5), May, pp. 403-411.
14. Herrero, C., R. Martínez and A. Villar (2012): "A newer human development index", *Journal of Human Development and Capabilities*, 13(2), pp. 247-268.
15. Villar, A. (2012): "Nuevos indicadores de bienestar económico: El enfoque multidimensional", *Extoikos*, 5, pp. 45-53.
16. Villar, A. (2011): "El "eigenfactor": un nuevo y potente instrumento bibliométrico para evaluar la investigación", *Aula abierta*, Universidad de Oviedo, 39(3), pp. 85-96.
17. Villar, A. (2011): "Evaluación con objetivos múltiples", *Bordón. Revista de pedagogía*, 63(2), pp. 91-100.
18. Villar, A. (2011): "Who meets the standards: A multidimensional approach", *Modern Economy*, 2(4), September, pp. 614-624.
19. Herrero, C., R. Martínez and A. Villar (2010): "Multidimensional social evaluation: An application to the measurement of human development", *Review of Income and Wealth*, 56(3), September, pp. 483-497.
20. Herrero, C. and A. Villar (2010): "The rights egalitarian solution for NTU sharing problems", *International Journal of Game Theory*, 39(1-2), March, pp. 137-150.

21. Goerlich, F.J. and A. Villar (2009): "Desigualdad y bienestar en España y sus comunidades autónomas (1973-2003)", *Revista de Economía Aplicada*, XVII(50), autumn, pp. 119-152.
22. Rodríguez-López, J. and A. Villar (2009): "Nuevas tecnologías, educación y productividad en Andalucía y Extremadura, 1995-2004", *Situación*, Serie Estudios Regionales - BBVA, Andalucía, January, pp. 17-28.
23. Fujimoto, F., J.A. Silva and A. Villar (2006): "A proposition dual to the nonsubstitution theorems", *Fukuoka University Review of Economics*, 51(3).
24. García-Jurado, I., J. González-Díaz and A. Villar (2006): "A Non-Cooperative Approach to Bankruptcy Problems", *Spanish Economic Review*, 8, pp. 189-197.
25. Herrero, C., J. Tomás and A. Villar (2006): "Decision theories and probabilistic insurance: an experimental test", *Spanish Economic Review*, 8(1), pp. 35-52.
26. Moreno, J.D. and A. Villar (2006): "New characterizations of a classical bankruptcy rule", *Review of Economic Design*, 10, pp. 73-84.
27. Moreno, J.D. and A. Villar (2006): "On the relative equitability of a family of taxation rules", *Journal of Public Economic Theory*, 8(2), pp. 283-291.
28. Moreno, J.D. and A. Villar (2006): "The TAL-Family of rules for bankruptcy problems", *Social Choice and Welfare*, 27, pp. 231-249.
29. Villar, A. (2006): "Desarrollo humano en las comunidades autónomas", *Mediterráneo Económico*, 10, pp. 303-321.
30. Fujimoto, F., J.A. Silva and A. Villar (2005): "A Nonsubstitution Theorem with Non-Constant Returns to Scale and Externalities", *Metroeconomica*, 56(1), pp. 25-36.
31. Mariotti, M. and A. Villar (2005): "The Nash rationing problem", *International Journal of Game Theory*, 33, pp. 367-377.
32. Villar, A. (2005): "On the welfare evaluation of income and opportunity", *The B.E. Journals in Theoretical Economics*, 5(1).
33. Moreno, J.D. and A. Villar (2004): "The Talmud rule and the securement of agents' awards", *Mathematical Social Sciences*, 47, pp. 245-257.
34. Fujimoto, F., C. Herrero, R. Ranade, J.A. Silva and A. Villar (2003): "A Complete Characterization of Economies with the Non-Substitution Property", *Economic Issues*, 8, pp. 63-71.
35. Fujimoto, F., J.A. Silva and A. Villar (2003): "A Generalization of Theorems on Inverse-Positive Matrices", *The Kagawa University Economic Review*, 76, pp. 285-292.
36. Fujimoto, F., J.A. Silva and A. Villar (2003): "Nonlinear Generalizations of Theorems on Inverse-Positive Matrices", *Advances in Mathematical Economics*, 5, pp. 55-63.
37. Villar, A. (2003): "La Evaluación de la Investigación en Economía", *Revista Valenciana de Economía y Hacienda*, 8, pp. 97-133.
38. Villar, A. (2003): "The Generalized Linear Production Model: Solvability, Nonsubstitution and Productivity Measurement", *Advances in Theoretical Economics*, 3(1).
39. Herrero, C. and A. Villar (2002): "Sustainability in Bankruptcy Problems", *TOP*, 10(2), pp. 261-273.

40. Villar, A. (2002): "Capital Humano y Estructura Productiva en España, 1990-2000", *Revista Valenciana de Economía y Hacienda*, 6, pp. 127-145.
41. Herrero, C. and A. Villar (2001): "The Three Musketeers: Four Classical Solutions to Bankruptcy Problem", *Mathematical Social Sciences*, 42/3, pp. 307-328.
42. Villar, A. (2001): "On the Efficiency of Market Equilibrium in Production Economies", *Journal of Global Optimization*, 20, pp. 375-389.
43. Herrero, C. and A. Villar (2000): "An Alternative Characterization of the Equal-Distance Rule in Allocation Problems with Single-Peaked Preferences", *Economics Letters*, 66(3), March, pp. 311-317.
44. Villar, A. (2000): "Equilibrium in Semimonotone Market Games", *Optimization*, 47, pp. 235-250.
45. Herrero, C., A. Villar and M. Maschler (1999): "Individual Rights and Collective Responsibility: The Rights-Egalitarian Solution", *Mathematical Social Sciences*, 37, pp. 59-77.
46. Herrero, C., M. Maschler and A. Villar (1999): "Personal rights and collective ownership: the rights-egalitarian solution", *Mathematical Social Sciences*, 17, pp. 59-77.
47. Hammond, P. and A. Villar (1998): "Efficiency with Nonconvexities Extending the 'Scandinavian Consensus' Approaches", *Scandinavian Journal of Economics*, 100, pp. 11-32.
48. Villar, A. (1994): "Equilibrium with Nonconvex Technologies", *Economic Theory*, 4, pp. 629-638.
49. Villar, A. (1994): "Existence and Efficiency of Equilibrium in Economies with Increasing Returns to Scale: An Exposition", *Investigaciones Económicas*, 18, pp. 203-242.
50. Peris, J.E. and A. Villar (1993): "Linear Joint Production Models", *Economic Theory*, 3, pp. 735-742.
51. Tomás, J.M. and A. Villar (1993): "La Medición del Bienestar Mediante Indicadores de Renta Real: Caracterización de un Índice de Bienestar Tipo Theil", *Investigaciones Económicas*, 17, pp. 163-173.
52. Herrero, C. and A. Villar (1992): "Asignaciones Igualitarias y Eficientes en Presencia de Externalidades", *Revista Española de Economía*, 9, pp. 115-127.
53. Herrero, C. and A. Villar (1992): "El Reparto del Fondo de Compensación Interterritorial entre las Comunidades Autónomas", *Hacienda Pública Española*, Nº Monográfico, pp. 113-125.
54. Herrero, C. and A. Villar (1992): "Sobre la Distribución Justa de un Pastel en Presencia de Externalidades", *Investigaciones Económicas*, 16, pp. 393-400.
55. Ranade, R. and A. Villar (1992): "On Technical Change, Differential Rates of Profit and Exploitation", *The Kagawa University Economic Review*, 64(4), pp. 205-218.
56. Herrero, C. and A. Villar (1991): "Principios para la Distribución del Gasto entre Comunidades Autónomas", *Revista Valenciana de Hacienda Pública*, 13, pp. 249-275.
57. Herrero, C. and A. Villar (1991): "Vector Mappings with Diagonal Images", *Mathematical Social Sciences*, 22, pp. 57-67.

58. Villar, A. (1991): "A General Equilibrium Model with Increasing Returns", *Revista Española de Economía*, 8, pp. 177-191.
59. Villar, A. (1990): "Nonlinear Operators in Euclidean Spaces: An Elementary 'Users Guide' for Economists", *Mathematical Social Sciences*, 19(3), June, pp. 281-292.

#### WORKING PAPERS

1. Herrero, C., R. Martínez and A. Villar (2017): "Population Structure and the Human Development Index", Working Papers serie AD, WP-AD 2017-04, Instituto Valenciano de Investigaciones Económicas - Ivie, July.
2. Villar, A. (2016): "Educational poverty as a welfare loss: Low performance in the OECD according to PISA 2012", Working papers series, WP ECON 16.04, Dpto. Economía, Mét. Cuantitativos e H.<sup>ª</sup> Econ.
3. Villar, A. (2015): "Crisis, households' expenditure and family structure: The Palma ratio of the Spanish economy (2007-2014)", Working Paper, 15/22, BBVA Research, July.
4. Herrero, C. and A. Villar (2014): "Ranking distributions of monotone attributes", EUI Working Paper, ECO 2014/06, Department of Economics. European University Institute (EUI).
5. Seth, S. and A. Villar (2014): "Human development, inequality and poverty: Empirical findings", Working Papers, WP ECON 14.11, Department of Economics, Universidad Pablo de Olavide.
6. Seth, S. and A. Villar (2014): "The measurement of human development and poverty", Working Papers, WP ECON 14.10, Department of Economics, Universidad Pablo de Olavide.
7. Herrero, C., I. Méndez and A. Villar (2013): "Analysis of group performance with categorical data when agents are heterogeneous: The case of compulsory education in the OECD", Working Papers serie AD, 2013-08, Instituto Valenciano de Investigaciones Económicas - Ivie, November.
8. Herrero, C. and A. Villar (2012): "An equity-based proposal for the evaluation of health states", Documentos de Trabajo, 15/2012, Fundación BBVA, November.
9. Herrero, C. and A. Villar (2012): "On the comparison of group performance with categorical data", Working Papers serie AD, 2012-17, Instituto Valenciano de Investigaciones Económicas - Ivie.
10. Herrero, C. and A. Villar (2012): "On the comparison of group performance with categorical data", Working Papers, 12.03, Department of Economics, Universidad Pablo de Olavide, September.
11. Villar, A. (2012): "Salud y desarrollo: Mortalidad, esperanza de vida y potencial de vida", Documentos de Trabajo, 2012/05, Cátedra de Economía de la Salud, Universidad Pablo de Olavide, October.
12. Villar, A. (2012): "The educational development index: A multidimensional approach to educational achievements through PISA", Working Papers, 12.06, Department of Economics, Universidad Pablo de Olavide, September.
13. Villar, A. (2012): "Welfare-poverty measurement", Working Papers, 12.02, Department of Economics, Universidad Pablo de Olavide, September.

14. Villar, A. (2011): "Who meets the standards? A multidimensional approach", Documento de Trabajo, 02/11, Fundación BBVA, March.
15. Calo-Blanco, A. and A. Villar (2010): "Quality of education and equality of opportunity in Spain: Lessons from Pisa ", Documento de Trabajo, 06/10, Fundación BBVA.
16. Herrero, C., R. Martínez and A. Villar (2010): "Improving the Measurement of Human Development", Human Development Reports. Research Paper, 2010/12, United Nations Development Programme, July.
17. Calo-Blanco, A. and A. Villar (2009): "Education, Utilitarianism and Equality of Opportunity", Documento de Trabajo, 13/09, Fundación BBVA.
18. Herrero, C., R. Martínez and A. Villar (2008): "A Multiplicative Human Development Index", Documento de Trabajo, 2008/01, Fundación BBVA.
19. Moreno, J.D. and A. Villar (2003): "The Talmud Rule and the Securement of Agents? Awards", Working Papers serie AD, 2003-05, Instituto Valenciano de Investigaciones Económicas - Ivie.
20. Moreno, J.D. and A. Villar (2002): "Bankruptcy rules and progressive taxation", Working Papers serie AD, 2002-15, Instituto Valenciano de Investigaciones Económicas - Ivie.
21. Moreno, J.D. and A. Villar (2001): "The tal-family of rules for bankruptcy problems", Working Papers serie AD, 2001-33, Instituto Valenciano de Investigaciones Económicas - Ivie.
22. Villar, A. (2001): "An input-output approach to the measurement of productivity differences", Working Papers serie AD, 2001-32, Instituto Valenciano de Investigaciones Económicas - Ivie.
23. Villar, A. (2001): "Multidimensional inequality and social welfare", Working Papers serie AD, 2001-30, Instituto Valenciano de Investigaciones Económicas - Ivie.
24. Villar, A. and P. Hammond (2001): "Efficiency and core properties of valuation equilibrium with increasing returns", Working Papers serie AD, 2001-24, Instituto Valenciano de Investigaciones Económicas - Ivie.
25. Villar, A. (1994): "Existence and efficiency of equilibrium in economies with increasing returns to scale: An exposition", Working Papers serie AD, 1994-07, Instituto Valenciano de Investigaciones Económicas - Ivie.

## RECENSIONS

1. Social Choice. A Framework for Collective Decisions and Individual Judgments, J. Craven, The Manchester School, 1992.
2. John von Neumann and Modern Economics, de M. Dore et al (Eds.), The Manchester School, 1989.
3. Reproducción Económica y Modos de Producción, de A. Barceló, in Información Comercial Española, 582, 1982.
4. Marx e gli Economisti Classice: Valore e Distribuzione nelle Teorie del Sovrappiu, de P.A. Garegnani, on Información Comercial Española, 592, 1982.

## CONFERENCES AND SEMINARS

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### PAPER AND CONFERENCES

- Participation by Antonio Villar at Ciclo ISA: Educación, bienestar y competitividad, El fracaso escolar, reflejo de un fracaso político y social. ¿Qué debe cambiar en el sistema educativo, en las familias, en la ciudad?. Fundación Cruzcampo. Sevilla (Spain), 25 January 2016.
- European Congress on Health Economics, Zurich (2012)
- Italian Meeting on Game Theory and Applications, Urbino (2003)
- Spanish Meeting on Game Theory and Applications, Seville (2002)
- European Workshop on General Equilibrium, Paris (1992), Louvain-la-Neuve (1993), Barcelona (1994), Venice (2002)
- Congress of Social Choice and Welfare, Valencia (1989), Caen (1992),
- Conferences of the Association Sud-Européen d'Economie Théorique (ASSET Meetings), celebrated in Bilbao (1983), Toledo (1987), Florence (1989), Bilbao (1990), Barcelona (1993), Marseille (1997), Bologna (1998), Lisboa (2000), Crete (2001)
- VI Osnabruck Seminar on Individual Decisions and Social Choice, Osnabruck (Germany) (August 1998)
- CODE Workshop on Generalized Convexity and Monotonicity in Economic Modeling, Barcelona (June 1998)
- Congress of Economic Theory, Antalya (Turkey) (June 1997)
- New Directions in the Theory of Markets and Games, Toronto (1995)
- North American Summer Meeting of the Econometric Society, Boston (1993)
- Symposium of Economic Analysis of Barcelona (1983, 1984, 1985, 1990 and 1991)
- Econometric Society European Meeting, in Madrid (1984), Budapest (1986), Bologna (1988), Munich (1989) and Barcelona (World Meeting 1990)
- Annual Congress of the European Economic Association, Copenhagen (1987), Bologna (1988) and Augsburg (1989)

### INVITED CONFERENCES

- Participation session 3, «Educación, bienestar y competitividad», of the WORKSHOP ANAECO 2015 by the Faculty of Economics. Valencia (Spain) (July 9 2015)
- Seminar “Worth and willingness to pay: Ranking distributions with monotone attributes”. European University Institute (Florence) (May 2014)
- PISA, ¿el fracaso de la equidad?, Fundación Cajasol, Seville (2014)
- EDU FORUM, organized by OCDE (2013)
- Educación y Desarrollo. PISA 2009 y el Sistema Educativo Español. INEE (2013)
- 8th Max Weber Program Academic Careers Observatory Conference, Fiesole (Italia) (2013)
- European Conference on Health Economics, Zurich (2012)

- Master “Desarrollo, instituciones e integración económica”, Faculty of Economics, Universitat de València (2012)
- Desigualdad de la Renta y Pobreza, Universidad Rey Juan Carlos, Madrid (2010)
- No Lineal 2010, Universidad Politécnica de Cartagena (2010)
- Desigualdad en las Sociedades Contemporáneas, Centro Estudios Andaluces (Seville) (2009)
- International course of mathematics, La Rábida (Huelva) (2007)
- X General Assembly of Compostela Group of Universities, Pécs (Hungary), September 2004.
- Universidad Internacional Menéndez Pelayo, Santander (2003)
- Conference of Young Scientists, A Coruña (2002)
- Approaches to Equality, V Summer School on Economics and Philosophy, San Sebastián (2002)
- XIV Italian Meeting on Game Theory and Applications, Ischia (2001)
- Conference on Health Economics, Valladolid (1996)
- Meeting of the Austro-German Association for Operations Research, Passau (1995)

#### CONGRESS ORGANIZATION

- Coordinator of the Workshop Equity and Poverty, FBBVA-Ivie (Seville, April 2012)
- Local organizer of the European Society for Population Economics Conference (Seville, 2009)
- Coordinator of the I Escuela de Energía y Cambio Climático, Fundación Focus Abengoa-UIMP (Seville, April 2008)
- Coordinator of the Meeting: “Consolider: Una ventana a la Ciencia de Frontera”, Universidad Internacional Menéndez Pelayo (Santander, 2007)
- Coordinator of the III International Course of Mathematical Analysis, Universidad Internacional de Andalucía, La Rábida (Huelva, 2007)
- Coordinator of the workshop: La Desigualdad de Rentas como un Cuestión Económica y Política: Género y Territorio (FBBVA-Ivie, UPO, Seville 2006)
- Coordinator of The Economics of Education: An International Workshop (Alicante, 2002)
- Local organizer of the Symposium of Economic Analysis (Alicante, 2001)
- Local organizer of the V Social Choice and Welfare Meeting (Alicante, 2000)
- Local organizer of the 96' ASSET Meeting (Alicante, 1996)
- Coordinator of the Conference on Increasing Returns (Alicante, 1991) and the Workshop on General Equilibrium (Alicante, 1993)
- Local organizer of the 91 Winter Symposium of the Econometric Society (Alicante, 1991)
- Director of Game Theory and Applications (Alicante, 1990)
- Secretary of the International Conference on Social Choice and Welfare (Valencia, 1989)

## SEMINARS

Seminars and conferences in Economics Departments and research centers: Universidad Autónoma de Barcelona, Universidad Complutense de Madrid, Universidad del País Vasco, Universidad de Valencia, Universidad de Valladolid, Universidad de Zaragoza, Instituto de Estudios Fiscales, Universität Bielefeld (Bielefeld, Germany), Center for Operations Research and Econometrics (Louvain-la-Neuve, Belgium), University of Brown (Providence, USA), University of North Carolina (Chapel Hill, USA), University of Virginia (Charlottesville, USA), Virginia Polytechnic and State University (Blacksburg, USA), University of Florida (Gainesville, USA), Stanford University (Palo Alto, USA), University of California-Davis (Davis, USA), Université de Paris-Nanterre (France), Université de Namur (Belgium), Università di Pisa (Italy), Instituto Universitario Europeo (Florence, Italy), CEMFI (Madrid), Universidad de Vigo, Universidad Pablo Olavide of Seville, Universidad de Murcia, Institute for Advanced Studies (Vienna), Universidad de Granada, Universidad de Salamanca, CentrA (Seville), Universidad de Santiago de Compostela, Universidad Autónoma de Madrid, University of London, Universidad de Sevilla, Universidad de Málaga, FEDEA (Madrid).

## RESEARCH PROJECTS

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- 2013 - “Crisis Económica y Bienestar Social: Salud, Educación y Mercado Laboral” (ECO2013-43526-R) Ministerio de Economía y Competitividad. PR: Antonio Villar.
- 2010 - “La evaluación del Desarrollo en un Mundo Cambiante” (SEJ-6882/ECON). Junta de Andalucía. PR: Antonio Villar.
- 2010 - “Desarrollo Humano y Mercado de Trabajo” (ECO2010-21706). Ministerio de Ciencia e Innovación. PR: Antonio Villar.
- 2008 - “Igualdad de Oportunidades y Mercado de Trabajo” (SEJ20905). Junta de Andalucía. PR: Antonio Villar.
- 2007 - “Desarrollo y Bienestar: Salud, Educación y Renta”, 2007-2009 (SEJ2007-67734-ECON). Ministerio de Educación y Ciencia. PR: Antonio Villar.
- 2007 - “Gestión de Consolider” (complementary action SEJ2006-27586E, 2007) Ministerio de Educación y Ciencia. PR: Antonio Villar.
- 2005 - “Economía Pública: Políticas Públicas y Evaluación del Bienestar. Junta de Andalucía. PR: Antonio Villar.
- 2004 - “Problemas de Racionamiento, Dotaciones de Capital y Crecimiento Económico” (SEJ2004-08011/ECON) Ministerio de Educación, Cultura y Deporte. PR: Antonio Villar.
- 2002 - “Análisis Económico” competitively selected to be funded by the Universidad de Alicante. PR: Antonio Villar.
- 2002 - “Racionamiento, Fusiones y Adquisiciones, crecimiento y cambio técnico” (CTIDIB/2002/314) Oficina de Ciencia y Tecnología de la Generalitat Valenciana. PR: Antonio Villar.
- 2001 - “Aplicaciones del Análisis Microeconómico”. Generalitat Valenciana. PR: Antonio Villar.
- 2001 - “Economía Pública y Bienestar Social”. Generalitat Valenciana. PR: Antonio Villar.
- 2001 - “Problemas Distributivos, Economías de Escala y Crecimiento Económico” (BEC2001-0535) Ministerio de Ciencia y Tecnología. PR: Antonio Villar.

## FURTHER ACADEMIC ACTIVITIES

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### ADMINISTRATIVE DUTIES

- Director of the PhD Program in Economics, jointly conducted by the Universities of Málaga and Pablo de Olavide, 2010-2012.
- Vice-Rector of Research and Technological Transfer, Universidad Pablo de Olavide (2007-2010).
- Member of the Governing Council of the "Centro Andaluz de Biología y Medicina Regenerativa" (CABIMER), 2007-2010.
- Head of the Economics Department (Área de Análisis Económico) at the Universidad Pablo de Olavide (2005-2007).
- Head of the Economics Department (Departamento de Fundamentos del Análisis Económico) at the Universidad de Alicante, 2003-2005.
- Vice-Dean of the "Facultad de Ciencias Económicas y Empresariales" (Universidad de Alicante), 1998-2002.
- Head of the Economics Department (Departamento de Fundamentos del Análisis Económico) at the Universidad de Alicante, 1994-97.
- Secretary of the Economics Department (Departamento de Fundamentos del Análisis Económico) at the Universidad de Alicante, 1987-90.
- Coordinator of the working papers collection A Discusión, 1986-92, and 1995 - 2005.
- Secretary of the "Facultad de Ciencias Económicas y Empresariales" (Universidad de Alicante), 1983-85.

### EVALUATION AND ASSESSMENT

- Referee for the following Journals: American Economic Review, Econometrica, Berkeley Electronic Press Journals in Theoretical Economics, Computers and International Engineering, Economic Theory, Games and Economic Behavior, International Economic Review, International Transactions in Operational Research, Investigaciones Económicas, Journal of Economic Theory, Journal of Human Development and Capabilities, Journal of Mathematical Economics, Journal of Political Economy, Journal of Public Economics, Manchester School, Mathematical Social Sciences, Mathematical Programming, Metroeconomica, Oxford Economic Papers, Revista de Economía Aplicada, Social Choice and Welfare, Spanish Economic Review.
- Referee for the "Agencia Nacional de Evaluación Prospectiva" and the European programs SPES and Training and Mobility of Researchers.
- Member of the Editorial Board of Investigaciones Económicas (1990-95).
- Expert in the Economics and Social Studies Program, within the Spanish "National Plan of Science and Technology" (1996-1999).
- Expert in the committees for the Spanish Government bilateral agreements for the mobility of researchers with France, Great Britain and Germany.
- Secretary (1989-91) and President (1995-97) of the Economics Panel of the Spanish National Science Foundation.

- Member (2001) and Secretary (2002) of the Economics Panel of the National Committee for the Evaluation of Research Activity (CNEAI).
- Coordinator of the research funds "Ayudas de Investigación" of the Instituto Valenciano de Investigaciones Económicas.
- Evaluation Coordinator (2003-2004) of the Valencian Agency for Science and Technology (Agencia Valenciana de Ciencia y Tecnología).
- Expert of Social Sciences for the Comisión Interministerial de Ciencia y Tecnología.
- Coordinator of the Consolider Research Program (Ministerio de Educación y Ciencia) (2005-2007).
- Advisor of the Spanish Ministerio de Educación y Ciencia (2005-2007).
- Member of the European Strategy Forum for Research Infrastructures (2012-)
- Associate Editor of TOP (2012-)
- Member of the Jury for the Premios Jaime I of Research in Economics (2013)
- Member of the Advisory Board of Infraestructuras Singulares, Ministerio de Economía e Innovación (2013-)
- Evaluator of the programme "Innovational Research Incentives Scheme Vidi 2013" of the Netherlands Organisation for Scientific Research.