

## **EMILI GRIFELL – TATJÉ**

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### **EMPLOYMENT**

#### *Primary Position*

- 1997 – Present. Full Professor (Catedrático) of Management and Business Economics, Department of Business, Universitat Autònoma de Barcelona.

#### *Previous Positions*

- 1989-1997. Associate Professor of Management and Business Economics, Department of Business, Universitat Autònoma de Barcelona (Spain).
- 1982-1989. Assistant Professor (it includes different categories in the Spanish University system), Department of Business, Universitat Autònoma de Barcelona (Spain).
- 1979-1982. Assistant Research, Department of Business, Universitat Autònoma de Barcelona (Spain).

### **VISITING APPOINTMENTS**

#### *Visiting (four or more weeks)*

- Sep2014-Nov2014. Visiting Professor, University of Queensland (Australia).
- Jun214-Aug2014. Visiting Professor, University of Queensland (Australia).
- Oct2012-Nov2012. Visiting Professor, University of Queensland (Australia).
- Nov2011-Dec2011. Visiting Professor, University of Queensland (Australia).
- Jul2011. Visiting Professor, University of Queensland (Australia).
- Nov2009-Dec2009. Visiting Professor, University of Queensland (Australia).
- Jul2009-Aug2009. Visiting Professor, University of Queensland (Australia).
- Jan2009-Feb2009. Visiting Professor, University of Queensland (Australia).
- Sep2007 – Dec2007. Visiting Professor, University of Queensland (Australia).
- Nov2006- Dec2006. Visiting Professor, University of Queensland (Australia).
- Jul2006-Aug2006. Visiting Professor, University of Georgia at Athens (USA).
- Feb2006-Apr2006. Visiting Professor, University of Queensland (Australia).
- Mar2004-Apr2004. Professeur Invité, L'Université Charles de Gaulle–Lille III (France).
- May1999-Sep1999. Visiting Professor, University of New South Wales (Australia).
- Jan1998– Feb1998, Visiting Professor, University of Georgia (USA).
- Sep1992-Oct1993. Visiting Scholar. University of North Carolina (USA).

#### *Short visits*

- Visiting Professor, CORE, Université Catholique de Louvain (Belgium), February 9 – 27, 2015.
- Visiting Professor, CORE, Université Catholique de Louvain (Belgium), June 8 – 10, 2009.
- Visiting Professor, University of Georgia (USA), February 15 – 27, 2005.
- Visiting Professor, University of Georgia (USA), September 6 – 19, 2004.

- Visiting Professor, University of Georgia (USA), May 8 – 19, 2004.
- Visiting Professor, University of Georgia (USA), July 28 – August 3, 2003.
- Visiting Professor, University of Georgia (USA), September 9 – 20, 2002.
- Visiting Professor, University of Georgia (USA), February 7 – 11, 2002.
- Visiting Lecturer, University of Georgia (USA), April 21 – 28, 2001.
- Visiting Professor, CORE, Université Catholique de Louvain (Belgium), June 5 – 8, 2000.
- *Conférencier Ordinaire*, Université de Liege (Belgium), April 19 -25, 1999.
- Visiting Professor, University of Georgia (USA), 14 - 25 April, 1995.

## **EDUCATION**

- Ph.D. in Business Economics, Universitat Autònoma de Barcelona, Barcelona, Spain (1988).  
Dissertation: “*La Mesura de la Productivitat en un Context a Curt Termini*”; Supervisor: Enric Genescà Garrigosa. Prize for best Thesis.
- B.A. in Economics and Business, Universitat Autònoma de Barcelona, Spain (1979).

## **TEACHING EXPERIENCE**

|               |                                                                                                                              |
|---------------|------------------------------------------------------------------------------------------------------------------------------|
| Undergraduate | Operations Research, Business Economics, Managerial Economics, Finance, Management, Industrial Economics, Business Strategy. |
| Graduate      | Efficiency and Productivity Analysis, Management, Applied Microeconomics, Strategic Management.                              |
| Master’s      | Efficiency and Productivity Analysis, Applied Microeconomics, Industrial Economics, Business Performance.                    |

## **MAIN RESEARCH FIELDS**

- Business Economics, Business Models, Business Performance, Business Strategy, Efficiency and Productivity Analysis, Productivity Accounting, Industrial Organization and Regulation, Management, Managerial Economics.

## **UNIVERSITY DUTIES**

- From 1/01/2011 to 31/12/2013, *Head of the Department of Business*, Universitat Autònoma de Barcelona.
- From 16/12/2011 to 31/12/2013, member of the *Commission of Economic Affairs*, Universitat Autònoma de Barcelona.
- From 1/01/2011 to 9/10/2013, member of the *Commission of Transference of Knowledge*, Universitat Autònoma de Barcelona.
- From 1/02/1990 to 25/06/1992, Vice-Dean of the Faculty of Business and Economics, Universitat Autònoma de Barcelona.
- From January 2008 to June 2013, *Academic Director* program “*Doctorate in Economics Management and Organization*” (DEMO) of three universities Universitat Autònoma de Barcelona, Universidad Pública de Navarra and Universitat Illes Balears.
- From September 2009 to March 2013, *Academic Director* of the research master “*Master in Management, Organization and Business Economics*” (MMOBE).
- Adviser to the Rector of the University of Girona: 1995 – 1997.

## **PUBLIC POLICY SERVICES**

### *Independent agencies*

- From 27/04/2015 to present. Member of the “Comissió de Professorat Lector i Professorat Col·laborador de l'àmbit de Ciències Socials,” *Agencia de la Qualitat Universitaria de Catalunya* (AQU).
- From 1/02/2006 to 31/01/2011. Coordinador Adjunto del Área de Economía. *Agencia Nacional de Evaluación y Prospectiva* (ANEP).
- 2001 - 2002. Coordinador Adjunto del Área de Economía, *Agencia Nacional de Evaluación y Prospectiva* (ANEP).

### *Research Committees*

- 2005. Member of the Evaluation Committee for the Allocation of Research Grants, Spanish Ministry of Science and Technology.
- 2004. Member of the Evaluation Committee for the Allocation of Research Grants, Spanish Ministry of Science and Technology.
- 2002. Expert Member. Comisión de Evaluación del *Programa Ramón y Cajal*, Área de Economía.

## **Publications: BOOKS**

- Grifell-Tatjé, E., Lovell, C.A.K. (2015), *Productivity Accounting: The Economics of Business Performance*. Cambridge University Press: New York, 393 pages.  
ISBN 978-0-521-88353-5 Hardback; ISBN 978-0-521-70987-3 Paperback.  
Information on this title: [www.cambridge.org/9780521883535](http://www.cambridge.org/9780521883535).
- Grifell-Tatjé, E., Lovell, C.A.K., Sickles, R. (editors). *The Oxford Handbook on Productivity Analysis*. Forthcoming in Oxford University Press: New York.  
Contributing with  
Chapter 1 *Overview of Productivity: History, Issues and Perspectives* (with C.A.K Lovell and R. Sickles).  
Chapter 9 *Productivity and Financial Performance* (with C.A.K Lovell).  
The Handbook contents twenty six chapters grouped in four parts with thirty seven contributors from twenty four different institutions around the world, which give a broad perspective of the concept of productivity analysis.

## **Publications: BOOK CHAPTERS**

### *Special mention*

- Grifell-Tatjé, E., Lovell, C.A.K., 2013, “Advances in Cost Frontier Analysis of the Firm,” Chapter 4 in C.R. Thomas and W. Shughart II (ed.), *Oxford Handbook in Managerial Economics*. New York: Oxford University Press, pp. 66 – 88.

### *Publications*

- Blázquez Gómez, L., Brea-Solís, H., Grifell-Tatjé, E., 2014, “The Impact of Changes in Regulatory Regime on Productivity of Spanish Electricity Distribution Firms,” in A. Estache, (ed.), *Emerging Issues in the Economics Energy Policy*. London: Centre for Economic Policy Research (CEPR). CEPR press, pp. 113-137.
- Grifell-Tatjé, E., Lovell, C.A.K. 2004, “Farrell’s Technical Efficiency Measurement,” entry in the *An Eponymous Dictionary of Economics: A Guide to Laws and Theorems Named after Economists*, J. Sedura, J., Rodríguez Braun, C., (ed.) Chentelham: Edward Elgar.

### *Reprinted papers*

- Grifell-Tatjé, E., Lovell, C.A.K. 2001, "Deregulation and Productivity Decline: the Case of Spanish Savings Bank," in M.J.B. Hall (ed.) in *The Regulation and Supervision of Banks: Volume IV Regulation and Efficiency in Banking*. International Library of Critical Writings in Economics, Edward Elgar Publishing. [Published in 1996 in the *European Economic Review* 40(6), June, pp. 1281 – 1303].

## **Publications: JOURNAL ARTICLES**

### **International Journals:**

- Agrell, P. and E. Grifell-Tatjé, 2016, "A Dynamic Model for Firm-Response to Non-Credible Incentive Regulation Regimes," forthcoming *Energy Policy* 90 (March), 287-299. (DOI: 10.1016/j.enpol.2015.12.029).
- Humberto Brea-Solís, H., Casadesus-Masanell, R., Grifell-Tatjé, E., 2015, "Business Model Evaluation: Quantifying Walmart's Sources of Advantage," *Strategic Entrepreneurship Journal* (Special issue on Business Models) 9(1), 12 - 33 (lead article). [DOI: 10.1002/sej.1190]  
[Working Paper Harvard Business School, 13-039 (2012). Harvard University (US)].
- Grifell-Tatjé, E., Lovell, C.A.K., 2014, "Productivity, Price Recovery, Capacity Constraints and their Financial Consequences," *Journal of Productivity Analysis* 41(1), 3 – 17. (lead article).
- Estache, E., Grifell-Tatjé, E., 2013, "How (un) even was the distribution of the impacts of Mali's water privatization across stakeholders?" *Journal of Development Studies* 49(4), April, 483-499.
- Tortosa-Ausina, E., Armero, C., Conesa, D., Grifell-Tatjé, E., 2012. "Bootstrapping Profit Change: An Application to Spanish Banks," *Computers & Operations Research* 39(8), 1857-1871 (Special Issue: Advances of Operations Research in Service Industry).
- Blázquez Gómez, L., Grifell-Tatjé, E., 2011. "Evaluating the Regulator: Winners and Losers in the Regulation of Spanish Electricity Distribution," *Energy Economics* 33(5), 807-815.
- Brea-Solís, H., Grifell-Tatjé, E., Lovell, C.A.K., 2011. "Testing the Product Test," *Economics Letters* 113(2), 157-159.
- Arocena, P., Blázquez Gómez, L., Grifell-Tatjé, E., 2011. "Assessing the consequences of restructuring reforms on firms performance," *The Journal of Economic Policy Reform* 14(1), 21-39.
- Grifell-Tatjé, E., 2011. "Productivity and distribution: differences across organizational forms – The case of Spanish banks," *Socio-Economic Planning Sciences* 45, 72 – 83.
- Kerstens, K., Grifell-Tatjé, E. 2008. Incentive Regulation and the Role of Convexity in Benchmarking Electricity Distribution: Economists versus Engineer. *Annals of Public and Cooperative Economics* 79(2), 227 – 248.
- Grifell-Tatjé, E., Marquès-Gou, P. 2008. Internal Performance Evaluation: the Case of Bank Branches. *Journal of Service Management* (former *International Journal of Service Industry Management*) 19(3), 302-324.
- Grifell-Tatjé, E., Lovell, C.A.K. 2008. Productivity at the Post: its Drivers and its Distribution," *Journal of Regulatory Economics*. 33(2), 133-158.
- Blázquez Gómez, L., Grifell-Tatjé, E. 2008. Multi-Output Compensation System in Electricity Distribution: The Case of Spain. *Hacienda Pública Española* 185(2), 115-149.
- Tortosa-Ausina, E., Armero, C., Conesa, D., Grifell-Tatjé, E. 2008. Sensitivity Analysis of Efficiency and Malmquist Productivity Indices: An Application to the Spanish Savings Banks. *European Journal of Operational Research* 184(3), 1062 – 1084.
- Grifell-Tatjé, E., Lovell, C.A.K. 2004. Decomposing the Dividend. *Journal of Comparative Economics* 32(3), 500 - 518.

- Grifell-Tatjé, E., Lovell, C.A.K. 2003. The Managers vs. the Consultants. *The Scandinavian Journal of Economics* 105(1), 119 – 138.
- Coelli, T., Grifell-Tatjé, E., Perelman, S. 2002. Capacity Utilisation and Profitability: A Decomposition of Short-Run Profit Efficiency. *International Journal of Production Economics* 79(3), 261-278.
- Fuentes, H., Grifell-Tatjé, E., Perelman, S. 2001. A Parametric Distance Function Approach for Malmquist Productivity Index Estimation. *Journal of Productivity Analysis* 15, 79-94.
- Grifell-Tatjé, E., Lovell, C.A.K. 2000. Cost and Productivity. *Managerial and Decision Economics* 21(1), 19 – 30.
- Grifell-Tatjé, E., Lovell, C.A.K. 1999. Profits and Productivity. *Management Science* 45 (9), 1177 – 1193. (lead article)
- Grifell-Tatjé, E., Lovell, C.A.K. 1999. Generalized Malmquist Productivity Index. *TOP. A Journal of the Spanish and Operations Research Society* 7(1), 81 – 101.
- Grifell-Tatjé, E., Lovell, C.A.K., Pastor, J.T. 1998. The Quasi-Malmquist Index. *Journal of Productivity Analysis* 1 (10), July, 7-20. (lead article).
- R. Färe, R., Grifell-Tatjé, E., Grosskopf, S., Lovell, C.A.K., 1997. Biased Technical Change and the Malmquist Productivity Index. *The Scandinavian Journal of Economics* 91(1), 119-127.
- Grifell-Tatjé, E., Lovell, C.A.K. 1997. The Sources of Productivity Change in Spanish Banking. *European Journal of Operational Research* 98(2), 364 - 380.
- Grifell-Tatjé, E., Lovell, C.A.K. 1997. A DEA - Based Analysis of Productivity Change and Intertemporal Managerial Performance. *Annals of Operations Research* 73 (In Honor de Abraham Charnes), 177 – 189.
- Grifell-Tatjé, E., Lovell, C.A.K. 1996. Deregulation and Productivity Decline: the Case of Spanish Savings Bank. *European Economic Review* 40 (6), 1281 – 1303.  
[2001, reprinted in M.J.B. Hall (Editor) in *The Regulation and Supervision of Banks: Volume IV Regulation and Efficiency in Banking*. International Library of Critical Writings in Economics, Edward Elgar Publishing.]
- Grifell-Tatjé, E., Lovell, C.A.K. 1995. A Note on the Malmquist Productivity Index. *Economics Letters* 47(2), 169-175.
- Grifell-Tatjé, E., Prior, D., Salas, V. 1994. Eficiencia de Empresa y Eficiencia de Planta en los Modelos Frontera No-Paramétricos. Una aplicación a las Cajas de Ahorros Españolas. *Spanish Economic Review* (Revista Española de Economía) 11(1), 139-159.
- Grifell-Tatjé, E. 1994. Comments on: Validation and Generalization of DEA and its Uses. *TOP. A Journal of the Spanish Statistical and Operations Research Society* 2(2), 249-314.
- Genescà, E., Grifell-Tatjé, E. 1992. Profits and Total Factor Productivity Comparative Analysis. *Omega. The International Journal of Management Science* 20(5/6), 553-568. (lead article).

### **Spanish Journals:**

#### *Special mention*

- Grifell-Tatjé, E., Marquès-Gou, P. 2005. El Riesgo en Dirección Estratégica: Evaluación del Desempeño Competitivo, *Cuadernos de Economía y Dirección de Empresas*, 22 (enero-marzo), 81 – 106.
- Grifell-Tatjé, E. 1998. Ventaja Competitiva y Diferencias de Rentabilidad: Un Enfoque Económico. *Cuadernos de Economía y Gestión de Empresas* 2, 173 – 202.
- Grifell-Tatjé, E. 1990. Aspectos Metodológicos Relacionados con la Medición, en Términos Absolutos, de la Productividad Total de los Factores. *Investigaciones Económicas* 14(3), 385-405.

### Publications

- Grifell-Tatjé, E., Marquès-Gou, P. 2000. Riesgo Estratégico en el Sector Bancario Español. *Papeles de Economía Española* 84/85, 192 – 205.
- Grifell-Tatjé, E., Torrent, M. 1997. Contabilidad y Generación de Beneficios: Análisis del Sistema Bancario Español: 1987-1994. *Revista de Contabilidad y Tributación* 177(diciembre), 107 - 144.
- Grifell-Tatjé, E., Lovell, C.A.K. 1995. Estrategias de Gestión y Cambio Productivo en el Sector Bancario Español. *Papeles de Economía Española* 65, 174 – 185.
- Grifell-Tatjé, E., Lovell, C.A.K. 1994. Economías de Escala y Cambios en la Productividad: El Caso de las Cajas de Ahorro Españolas. *Perspectivas del Sistema Financiero* 48, 123-131.
- Genercà, E., Grifell-Tatjé, E. 1991. Càlcul de la Indicència de la Productivitat sobre la Quantia dels Beneficis. *Revista Econòmica de Catalunya* 18, 11-19.
- Genercà, E., Grifell-Tatjé, E. 1990. Análisis Operativo de las Propuestas Operativas para Medir la Productividad Total a Nivel de Empresa. *Economía Industrial* 272 (marzo-abril), 147-157.
- Genercà, E., Grifell-Tatjé, E. 1990. Adaptación de los Indicadores de Productividad Total para su Aplicación Empírica en Economía de la Empresa. *Economía Industrial* 273, 169-182.
- Genercà, E., Grifell-Tatjé, E., Obis, T. 1989. Evolució de l'Estructura dels Costos i el Finançament Empresarial. *Revista Econòmica de Catalunya*, (Special Issue), 169-247.
- Genercà, E., Grifell-Tatjé, E. 1986. Modificació dels Indicadors de Productivitat Total Quant es Considera el Mix de Productes i l'Ocupació de la Capacitat. *Revista Econòmica de Catalunya* 3 (September – December), 14-24.
- Grifell-Tatjé, E., Vergés, J.C. 1981. La Temática Española sobre el Medio Ambiente. *Ciudad Territorio. Revista de Ciencia Urbana* 2, 69-107.

### Research Reports:

- Blázquez Gómez, L., Grifell-Tatjé, E. 2008. Evaluating the Regulator: Winners and Losers in the Regulation of Spanish Electricity Distribution (1988-2002), *Instituto de Estudios Fiscales. Papeles de Trabajo* 7/08, 56 pages.
- Grifell-Tatjé, E., Lovell, C.A.K. 2007. Profit, Productivity and Distribution: Differences Across Organizational Form. *Documentos de Trabajo* 27. Fundación BBVA.
- Arozena, P., Genescà, E., Grifell-Tatjé, E., Huerta, H., Villanueva, M. 2004. Innovacions Organitzatives a L'Empresa Industrial Catalana, in “*Informe Anual de l'Empresa Catalana, 2003*”, Generalitat de Catalunya (ISBN: 84-393-6562-4), 131 – 148.

### **COMPLETED AND UNPUBLISHED MATERIAL:**

- (2015), “Exact Relationship between Fisher Indexes and Theoretical Indexes,” Center for Efficiency and Productivity Analysis (CEPA). University of Queensland. Working Paper n° WP06/2015, May (ISSN No. 1932 – 4398). (C.A.K. Lovell).
- (2015), “Decompositions of Profitability Change Using Cost Functions: A Comment,” Center for Efficiency and Productivity Analysis (CEPA). University of Queensland. Working Paper n° WP03/2015, March. (ISSN No. 1932 – 4398). (C.A.K. Lovell).
- (2012), “Business Model Evaluation: Quantifying Walmart’s Sources of Advantage,” Working Paper 13-039 (November 6, 2012) Harvard Business School (Humberto Brea-Solís, Ramon Casadesus-Masanell).
- (2011), “Assessing the impact of Mali’s water privatization across stakeholders,” Centre for Economic Policy Research (CEPR), *London, Development Economics*, Discussion Paper Series 8717 (December) (ISSN 0265-8003).
- (2010), *ECORE* (CORE, Université Catholique de Louvain and ECARES, Université Libre de Bruxelles) Discussion Paper 115 (Antonio Estache).
- (2010), “Testing the Product Test”, *Center for Efficiency and Productivity Analysis, University of Queensland* (Australia), Working Paper Series n° WP07/2010. (H. Brea Solís, C.A.K. Lovell).
- (2008), “Evaluating the Regulator: Winners and Losers in the Regulation of Spanish Electricity Distribution (1988-2002),” *Instituto de Estudios Fiscales. Papeles de Trabajo*, número 7/08, pp. 56 páginas (Leticia Blázquez Gómez).
- (2007), “Profit, Productivity and Distribution: Differences Across Organizational Form,” Documentos de Trabajo 27. *Fundación BBVA*. (C.A.K. Lovell).
- (2006), “Productivity at the Post: its Drivers and its Distribution,” CEPA Working Paper Series 2006 WP02. *University of Queensland* (Brisbane) Australia. (C.A.K. Lovell).
- (2005), “Internal Performance Evaluación: the Case of Bank Branches,” Barcelona Economics Working Paper Series 231. *CREA (Centre de Referencia en Economia Analítica)*, 31 páginas. (Pilar Marquès-Gou).
- (2005), “Productivity at the Post: its Drivers and its Distribution,” Barcelona Economics Working Paper Series 169. *CREA (Centre de Referencia en Economia Analítica)*, 31 páginas. (C.A.K. Lovell).
- (2004), “Regulación de la Distribución Electrica en España: Análisis Económico de una Década, 1987 – 1997”. Document de Treball 2004/1. *Departament d’Economia de l’Empresa. Universitat Autònoma de Barcelona*, 46 páginas. (L. Bázquez Gómez).
- (2003), “Sensitivity Analysis of Efficiency and Malmquist Productivity Indices: An Application to the Spanish Savings Banks,” Working Papers 02, *Centre for Applied Economic Research (CAER)*, University of New South Wales (Australia), 35 páginas. (E. Tortosa-Ausina, C. Armero, D. Conesa).
- (2002), “Sensitivity Analysis of Efficiency and Malmquist Productivity Indices: An Application to the Spanish Savings Banks,” Working Papers, WP – EC 2002/30, *IVIE* (Valencia), España, 35 páginas. (E. Tortosa-Ausina, C. Armero, D. Conesa).
- (2002), “Capacity Utilisation and Profitability: A Decomposition of Short Run Profit Efficiency,” Economics Department Working Papers 2002 - 1, Université de Liège (Belgica). (T. Coelli y S. Perelman).
- (2001), “The Managers vs. the Consultants,” Working Paper Series 01- 481,. Terry College of Business. The University of Georgia (USA), 22 páginas (C.A.K. Lovell).
- (2001), “Capacity Utilisation and Profitability: A Decomposition of Short Run Profit Efficiency,” CORE Discussion Papers 01/52, Université Catholique de Louvain (Bélgica), 30 páginas. (T. Coelli y S. Perelman).
- (1998) “A Parametric Distance Function Approach for Malmquist Index Estimation”. Working Papers Series, CREPP 98/03, Université de Liège (Belgica). (H. Fuentes, S. Perelman).
- (1997). “Profits and Productivity,” Financial Institutions Center, Working Paper 97-18. Wharton Shool. University of Pennsylvania (USA). (C.A.K. Lovell).

- (1997) "Profits and Productivity," Working Paper Series, 97 - 455. Terry College of Business. The University of Georgia (USA). (C.A.K. Lovell).
- También publicado en Actas de las XIII Jornadas de Economía Industrial. Fundación Empresa Pública, 1998, pp. 37 – 42. (C.A.K. Lovell).
- (1996) "The Quasi-Malmquist Index". Working Paper Series, 96-441. Terry College of Business. The University of Georgia (USA), 22 pages (C.A.K. Lovell, J. T. Pastor).
- (1996) "The Sources of Productivity Change in Spanish Banking". Working Paper Series, 96-443. Terry College of Business. The University of Georgia (USA), 22 páginas (C.A.K. Lovell).
- (1996) " Profits and Productivity: A Theoretical Analysis and an Empirical Application to Spanish Banking" Serie *Documentos de Trabajo. Fundación Fondo para la investigación Económica y Social* (FIES). Núm. 128, 50 pages (C.A.K. Lovell).
- (1995) "Biased Technical Change and the Malmquist Productivity Index". Working Paper Series, EWP - mic 9508002, Southern Illinois University.
- (1996) Working Paper Series, 96-439. Terry College of Business. The University of Georgia (USA), 14 páginas (R. Färe, S. Grosskopf, C.A.K. Lovell).
- También fue publicado Actas de las XII Jornadas de Economía Industrial. Fundación Empresa pública, 1998, pp. 251 – 254.
- (1994) "A Generalized Malmquist productivity index". Working Paper Series, 94-410. Terry College of Business. The University of Georgia (USA), 28 páginas (C.A.K. Lovell).
- (1993) "A new descomposition of the Malmquist productivity index". Department of Economics. University of North Carolina at chapel Hill (USA). Working Paper, 93-04, november, 20 páginas. (C.A.K. Lovell).
- (1994) Working Paper Series, 94-392. Terry College of Business. The University of Georgia (USA), 20 páginas.
- (1993) "Deregulation and productivity decline: the case of Spanish Savings Banks". Department of Economics. University of North Carolina at Chapel Hill (USA). Working Paper 93-02, june, 35 páginas. (C.A.K. Lovell).
- (1992) "Eficiencia frontera y productividad en las Cajas de Ahorros Españolas (1989-1990)". *Documentos de Trabajo. Fundación Fondo para la investigación Económica y Social*. n. 92, 102 páginas. (D. Prior Jimenez & V. Salas Fumas).

## **REFEREED PROCEEDINGS**

- Grifell-Tatjé, E., Lovell. C.A.K. 2013. "Productivity, Price Recovery, Capacity Constraints and their Financial Consequences," in Aaron, M., and John Walden J., (ed), *Proceedings of the National Marine Fisheries Service Productivity Workshop*. Santa Cruz, CA (USA), June 11-12, 2012. The National Oceanic and Atmospheric Administration (NOAA) Technical Memorandum of the National Marine Fisheries Servies (NMFS). (NOAA-TM-NMFS-SWFSC-503). U.S. Department of Commerce. United States of America. (Lead article)
- Grifell-Tatjé, E., Marqués-Gou, P. 2002. Strategic Performance at the firm level: Measuring the Nature of Sustained Superior Performance," en *Performance Measurement for Increased Competitiveness*, 2º International Workshop of the "Institute of Production Systems and Logistics, University of Hanover, (Germany). ISBN3-00-009491-1.
- Grifell-Tatjé, E., Lovell. C.A.K. 2000. An Economic Approach to the Decomposition of Variation in Banking Profitability. *Proceedings of the Workshop on Banking and Finance*. Universidad Miguel Hernández, Elche, España.
- (1999) "Cost and Productivity," *Actas de las XIV Jornadas de Economía Industria*. Fundación Empresa Pública, pp. 99 – 102. (C.A.K. Lovell).
- Grifell-Tatjé, E., Lovell. C.A.K. 1997. Profits and Productivity. *Proceedings of the Performance of Financial Institutions*, Wharton School, University of Pennsylvania,(USA).
- Grifell-Tatjé, E. and C. K. Lovell (1996), "Profits and Productivity", *Actas de las XII Jornadas de Economía Industrial*. Fundación Empresa Pública. pp. 37-42.
- (1992) "La eficiencia frontera en las Cajas de Ahorros Españolas". *Actas de las VIII*

### **RESEARCH RECOGNITION [Tramos de Investigación]**

Evaluation by the Spanish independent agency ANECA (*Agencia Nacional de Evaluación de la Calidad y Acreditación*). Same recognition by the AQU, the Catalan independent agency.

- Research positive evaluation of the period 2005 – 2010 (fecha resolución: 29.06.2011 con salida 004226).
- Research positive evaluation of the period 1999 – 2004, (fecha resolución: 13.06.2005 con salida 003642).
- Research positive evaluation of the period 1993 – 1998.
- Research positive evaluation of the period 1987 – 1992.

### **RESEARCH GRANTS (as Principal Researcher)**

- “*Eficiencia y Productividad en las Cajas de Ahorro Españolas*”. Fundación Fondo para la Investigación Económica y Social de la Confederación Española de Cajas de Ahorro (1991 – 1992).
- “*Introducción de las Economías de Escala en los Indices de Productividad Malmquist. Aplicación al Caso del Sector Bancario Español*”. Fundación Bilbao Vizcaya (1994 – 1995).
- “*Profits and Productivity: A Theoretical Analysis and an Empirical Application to Spanish Banking*”. Fundación Fondo para la Investigación Económica y social de la Confederación Española de Cajas de Ahorro (1995 – 1996).
- “*Grup de Recerca de Qualitat en el marc del Pla de Recerca de Catalunya*.” GRQ93-2022. CIRIT Generalitat de Catalunya (1994 – 1996).
- “*Grup de Recerca Consolidats en el marc del Pla de Recerca de Catalunya*”. Grup d’Eficiència i Competitivitat Empresarial (Business Efficiency and Competitiveness Group – BEC-G), 1996SGR 00113. CIRIT Generalitat de Catalunya (1996 – 1998).
- “*El Efecto de la Productividad sobre los Costes en la Distribución de Electricidad*”. Comisión del Sistema Eléctrico Nacional (1997 - 1998).
- “*Jornada sobre Desregulación y Eficiencia en el Sector Eléctrico*”. SEC97-1658-E. Comisión Interministerial de Ciencia y Tecnología. Ministerio de Educación y Cultura (1997).
- “*Grup de Recerca Consolidats en el marc del Pla de Recerca de Catalunya*”. Grup d’Eficiència i Competitivitat Empresarial (Business Efficiency and Competitiveness Group – BEC-G), 1998SGR 00073. CIRIT Generalitat de Catalunya (1999 – 2000).
- “*Internacionalización y Analisis de la Competitividad Empresarial*”. DGES SEC99-0843-C02-01. Dirección General de Enseñanza Superior e Investigación Científica. Comisión Interministerial de Ciencia y Tecnología (1999 – 2001).
- “*Grup de Recerca Consolidats en el marc del Pla de Recerca de Catalunya*”. Grup d’Eficiència i Competitivitat Empresarial 2000SGR 00052. CIRIT Generalitat de Catalunya (2001 – 2002).
- “*Análisis de la Sensibilidad de los Indices de Eficiencia y de los Indices de Productividad Malmquist en Banca a través de un procedimiento bootstrap*.” Instituto Valenciano de Investigaciones Económicas (IVIE) (2001).
- “*Productividad y Competitividad de la Empresa Industrial Española*”. SEC2001-2793-C03-01. Dirección General de Investigación. Secretaría de Estado de Política Científica y Tecnológica. Ministerio de Ciencia y Tecnología (2001 – 2004).
- “*Grup de Recerca Consolidats en el marc del Pla de Recerca de Catalunya*”. Grup

d'Eficiència i Competitivitat Empresarial (Business Efficiency and Competitiveness Group – BEC-G) 2001SGR 00159. CIRIT Generalitat de Catalunya (2001 – 2004).

- *“Tutorial on Malmquist, Fisher and Törnqvist Productivity Indexes by C.A.K. Lovell and Tutorial on Economic Performance and Cost Measures by Catherine Morrison.”* Agència de Gestió d'Ajuts Universitaris i de Recerca. 2003.
- *Review of “A Primer on Efficiency Measurement for Utilities and Transport Regulators,”* World Bank Institute. Short Term Consultant 27/01/2003 – 29/02/2003.
- *“Análisis de las Fuentes de las Variaciones Productivas y su Distribución a Nivel de Empresa.”* Proyectos de Investigación. Fundación BBVA. (2004 - 2005) (with C.A.K Lovell).
- *“Review of Data for a Methodology of Low Cost,”* The World Bank. Short Term Consultant 10/06/2005 – 20/06/2005.
- *“Medidas de Desempeño Competitivo: Descomposición y Determinantes”.* SEJ2004-07242-C03-01/ECON. Ministerio de Ciencia y Tecnología (November 2004 – November 2007).
- *“Tutorial on the Measurement of Business Income, Capital and Performance”.* SEJ2005-24707-E/ECON. Dirección General de Investigación. Ministerio de Educación y Ciencia. (November 2006 – November 2006).
- *“Grup de Recerca Consolidats en el marc del Pla de Recerca de Catalunya”.* Grup d'Eficiència i Competitivitat Empresarial (Business Efficiency and Competitiveness Group – BEC-G) 2005SGR 00813 CIRIT Generalitat de Catalunya (2005 – 2009).
- *“Definition of the Variables and Observations of the Project: The Distributional Effects of Utilities Reforms: A Low Cost Approach Methodology,”* The World Bank. Short Term Consultant 27/11/2005 – 12/10/2005.
- *“Continuation of the project Definition of the Variables and Observations of the Project: The Distributional Effects of Utilities Reforms: A Low Cost Approach Methodology,”* The World Bank. Short Term Consultant 15/05/2006 – 30/06/2006.
- *“Ganadores y Perdedores de la Regulación de la Distribución Eléctrica Española.”* Instituto de Estudios Fiscales. Ministerio de Economía y Hacienda. (March 15<sup>th</sup>, 2007 - March 15, 2008).
- *“Management and Firm Performance: Profits and Beyond,”* SEJ2007-67737-C03-01/ECON. Ministerio de Ciencia y Tecnología (from 01/10/2007 to 30/09/2010).
- *“Grup de Recerca Consolidats en el marc del Pla de Recerca de Catalunya”.* Grup d'Eficiència i Competitivitat Empresarial (Business Efficiency and Competitiveness Group – BEC-G), 2009SGR 1001 CIRIT Generalitat de Catalunya (2009 – 2014).
- *“The Analysis of Economic Performance,”* ECO2010-21242-C03-01/ECON. Ministerio de Ciencia y Tecnología (from 01/10/2011 to 31/12/2013; extended from 01/01/2014 to 31/12/2014).
- *“Financial support visiting University of Queensland, 2014”.* Search and Visitor Committee, University of Queensland (Australia). (Visiting Professor from 20/06/2014 to 14/08/2014).
- *“Performance Analysis, Competitiveness and Economic Progress,”* ECO2013-46954-C3-2-R. Entidad financiadora: Convocatoria de ayudas de Proyectos de I+D+i “Retos Investigación”. Programa de I+D+i Orientada a los Retos de la Sociedad. Ministerio de Ciencia y Tecnología (from 01/01/2014 to 31/12/2016).

## **DOCTORAL STUDENTS**

### *In process*

- Jonathan Calleja Blanco, *expected defense year 2016*, in the program “Doctorate in Economics, Management and Organization” (DEMO). Universitat Autònoma de Barcelona.

- Herberito Rodriguez Regordosa, *expected defense* year 2016, in the program “Doctorate in Economics, Management and Organization” (DEMO). Universitat Autònoma de Barcelona.
- S.Demeersman Jaganjacová, in the program “Doctorate in Economics, Management and Organization” (DEMO). Universitat Autònoma de Barcelona.

#### *Completed*

- Pau Turon Dols, *defense* November 20, 2015. In the program “Doctorate in Economics, Management and Organization” (DEMO). Universitat Autònoma de Barcelona. Main Advisor.
- Humberto Antonio Brea Solís. *Defense*: December 12, 2011. In the program “Doctorate in Economics, Management and Organization” (DEMO). Universitat Autònoma de Barcelona.
- Maria Leticia Blázquez Gómez. *Defense*: June 9, 2008. *In the* Universitat Autònoma de Barcelona. Main Advisor.
- Pilar Marquès i Gou. *Defense*: October 18, 2001. *In the* Universitat de Girona. Main Advisor.
- Hugo Fuentes Castro. *Defense*: July 16, 1998. *In the* Universitat Autònoma de Barcelona. Main Advisor.

### **ACADEMIC SERVICES**

#### **As organizer:**

- “*Jornada sobre Desregulación y Eficiencia en el Sector Eléctrico*”. Centre d’Economia Industrial. 22 May, 1997. Barcelona. Spain.
- *Tutorial by Professor Bert Balk, Netherlands Institute of Statistics, on “Industrial Price, Quantity, and Productivity Indices. The Micro-Economic Theory and An Application,”* Department of Business Economics. Universitat Autònoma de Barcelona. Barcelona. February 25 – 26, 1999.
- *Tutorial by Professor Peter Bogetoft, The Royal Veterinary and Agricultural University, Copenhagen, Denmark, on “Incentives and Efficiency Evaluations,”* Department of Business Economics. Universitat Autònoma de Barcelona. Barcelona. March 29 - 31, 2000.
- *Tutorial by Professors’ Rolf Färe and Shawna Grosskopf, Oregon State University, USA, on “Efficiency and Duality, with Applications to Aggregation and Environmental Performance,”* Department of Business Economics. Universitat Autònoma de Barcelona. Barcelona. June 1 - 2, 2001.
- *Tutorial by Professor C.A.K Lovell, The University of Georgia, USA, on “Malmquist, Fisher and Törnqvist Productivity Indexes,”* Department of Business Economics. Universitat Autònoma de Barcelona. Barcelona. May 9 - 10, 2003.
- *Tutorial by Profesor Tim Coelli, Centre for Efficiency and Productivity Analysis (CEPA), School of Economics, University of Queensland (Australia), sobre “Econometric Estimation of Distance Functions: with Application to Price Regulation in Infrastructure Industries,”* Department of Business Economics. Universitat Autònoma de Barcelona. September 22 - 23, 2004.
- *Tutorial by Professor Erwin Diewert, Department of Economics, The University of British Columbia, Canada, on “The Measurement of Business Income, Capital and Performance,”* Department of Business Economics. Universitat Autònoma de Barcelona. September 21 - 21, 2005.
- *Tutorial del Professor Paul W. Wilson, Department of Economics at Clemson University, South Carolina, USA, sobre “Bootstrap Methods for Inference About Efficiency,”* Departament d’Economía de l’Empresa. Universitat Autònoma de Barcelona. 9 y 10 de noviembre, 2006.

- Tutorial del Professor D.S. Prasada Rao, *School of Economics and Director, Centre for Efficiency and Productivity Analysis, University of Queensland, Brisbane, Australia*, sobre “*Index Number Methods for Spatial, Regional and Cross-Country Comparisons of Prices, Real Output and Income, and Productivity*,” Departament d’Economia de l’Empresa. Universitat Autònoma de Barcelona. 6 y 7 de septiembre, 2007.
- (co-coordinación con Per Agrell, UC Lovain) Workshop of the European Working Group on Distributed Decision Making, sobre “*Modelling Infrastructure Regulation*.” Departament d’Economia de l’Empresa. Universitat Autònoma de Barcelona. 8 y 9 de septiembre, 2008.
- Tutorial del Professor Subal C. Kumbhakar, *Department of Economics, State University of New York at Binghamton, US*, sobre ‘*A Premier on Efficiency and Productivity Analysis Using Parametric Stochastic Frontier Approaches*,’ Departament d’Economia de l’Empresa. Universitat Autònoma de Barcelona. 22 y 23 de octubre, 2009.
- Member of the Organizing Committee *International Workshop on Efficiency and Productivity in Honour of Professor Knox Lovell*. Universidad Miguel Hernandez, Elche, España. October 4-5, 2010.
- Tutorial del Professor Antonio Estache, *European Centre for Advanced Research in Economics and Statistic, Université Libre de Bruxelles, Belgium*, ‘Topics in Infrastructure Economics’, Departament d’Economia de l’Empresa. Universitat Autònoma de Barcelona. 13 y 14 de enero, 2011.
- Tutorial del Professor William Greene, *Stern School of Business, New York University, US*, ‘Stochastic Frontier Models for Efficiency Analysis,’ Departament d’Economia de l’Empresa. Universitat Autònoma de Barcelona. 25 y 26 de marzo, 2011.

#### **As member scientific committee:**

- *VI Congreso de Eficiencia y Productividad EFIUCO*, Universidad de Cordoba, Cordoba, Spain, May 26 – 28, 2014.
- *2013 GEM Research Conference on Entrepreneurship & Economic Development*, Global Entrepreneurship Research Association (GERA), Casa de la Convalecència, Barcelona, June 19 – 21.
- *V Congreso de Eficiencia y Productividad EFIUCO*, Universidad de Cordoba, Cordoba, Spain, May 19 and 20, 2011.
- *International Workshop on Efficiency and Productivity in Honour of Professor Knox Lovell*. Centro de Investigación Operativa, Universidad Miguel Hernandez, Spain, October 4 and 5, 2010.

#### **Referee for articles appearing in:**

- American Journal of Agricultural Economics, The Annals of Operations Research, Applied Stochastic Models in Business and Industry, Economics Letters, Energy Journal, Empirical Economics, European Economic Review, European Journal of Operations Research, International Journal of Manpower, International Journal of Operations and Production Management, International Economic Review, Journal of Banking and Finance, Journal of Productivity Analysis, Management Science, Omega, Socio-Economic Planning Sciences. The International Journal of Public Sector Decision-Making.
- Review of academic book proposals for: Cambridge University Press. Cambridge (UK); Kluwer-Nijhoff Academic Publishers. Boston (USA); Rutledge Publishers. London and New York (UK, USA).

#### **Thesis Examination:**

*Outside Spain*

- -. “Opponent” of the thesis “Essays on Productivity and Efficiency in the Romanian Cement Industry,” by Mihai Cotfas. The School of Economics and Commercial Law. Göteborg University. Sweden. 1997.
- -. “La Mesure d’Efficacité et de la Productivité sur Base d’une Enveloppe de Libre Disposition: Théorie, Application et Logiciel,” by Philippe Vanden Eeckaut. Département des Sciences Économiques, Université Catholique de Louvain la Neuve. Belgium. 1997.
- -. “Analyse des Mesures de l’Efficacité Technique,” by Melle Christine Comes. Département des Sciences Économiques. Université Paris (Pantheon – Assas). Paris, France. 2002.
- -. “Incorporation of Costs of Adjustment in DEA Models: Selection of Optimal Paths,” by Filadelfo de Mateo Gómez. The University of New England. Armidale. New South Wales. Australia. 2003.
- -. “Les Fonctions Distance en Théorie de la Production Applications en Incertitude et aux Tests Non Paramétriques,” de Laurent Cavaignac, spécialité Sciences Economiques, Université Perpignan, Perpignan, France. 2007.
- “Homogeneity in Data Envelopment Analysis“, Ross Wyatt, Kent Business School, University of Kent. Canterbury. United Kingdom. 2011.

### *Spain*

- -. “Competencia y Regulación en la Industria de la Energía Eléctrica,” by Pablo Arocena Garro. Departamento de Gestión de Empresas. Universidad Pública de Navarra. Pamplona. Spain. 1996.
- -. “Tres Estudios en el Ámbito de la Organización Industrial,” by Miquel Carreras i Simó. Departament Economia i Empresa. Universitat Pompeu Fabra. Barcelona. Spain. 1997.
- -. “Avaluació de la Gestió Hospitalària: Determinació de les Economies de Diversificació i Valoració Dinàmica de la Qualitat i de la Productivitat,” by Magda Solà i Tey. Departament d’Economia de l’Empresa. Universitat Autònoma de Barcelona. Barcelona. Spain. 1998.
- -. “Retailing Strategies,” by José Manuel Ordóñez de Haro. Departament d’Economia i Història econòmica. Universitat Autònoma de Barcelona. Barcelona. Spain. 2000.
- -. “A Microeconomic Analysis of Bank Regulation, Bank Specialization and R&D Organization,” by Aleix Calveras Maristany. Departament d’Economia i Història Econòmica. Universitat Autònoma de Barcelona. Barcelona. Spain. 2000.
- -. “La Evaluación del Rendimiento Productivo con Índices de Malmquist y su Aplicación DEA a la Industria Manufacturera de la OCDE (1970 – 1993),” by José Luis Zofio Prieto. Departamento de Análisis Económico: Teoría Económica e Historia Económica. Universidad Autónoma de Madrid. Madrid. Spain. 2000.
- -. “DEA: Medidas de Eficiencia Generalizadas y Detección de Observaciones Influyentes,” by José Luis Ruiz Gómez. Departamento de Estadística e Investigación Operativa. Universidad Miguel Hernández. Elche. Spain. 2000.
- -. “Contribuciones al Análisis Estocástico de la Eficiencia Técnica Mediante Métodos No Paramétricos,” by Carmen Murillo Melchor. Universidad de Cantabria. Santander. Spain. 2002.
- -. “Nuevas Metodologías en el Análisis de Envolvimiento de Datos. Una Aplicación a Pesquerías,” by Inés Herrero Chacón. Universidad de Huelva. Huelva. Spain. 2002.
- -. “Iniciativas Actuales para la Implantación de la Gestión de la Calidad. Análisis Comparativo de su Estructura e Impacto sobre las Capacidades Dinámicas de la Organización,” Leopoldo José Gutierrez Gutierrez. Universidad de Granada. Granada. España. 2008.
- -. “Topics on Recent Developments in Banking Regulation and Supervision,” Christian Eduardo Castro. Universitat Autònoma de Barcelona. Barcelona. España. 2009.

- -. "Novel Perspectives on Technology-Based Efficiency and Productivity Analysis," Mircea Epure. Universitat Autònoma de Barcelona. Barcelona. España. 2010.
- - -. "Gobierno Corporativo y Planteamiento Medioambiental de la Empresa," Natalia Ortiz Martínez de Mandojana. Universidad de Granada. Granada. España. 2011.
- "Economic Regulation of Distribution System Operator and its Adaptation to the Penetration of Distributed Energy Resources and Smart Grid Technologies," Rafael Cossent Arín. Universidad Pontificia de Comillas. Madrid. España 2013.

#### **PAPERS PRESENTED AT CONFERENCES AND WORKSHOPS**

- (1983), "Metodología para el Cálculo de Indicadores de Productividad Global," **II Congreso de la Asociación Española de contabilidad y Administración de Empresa (AECA)**. Tenerife. Spain. (E. Genescà).
- (1986), "Modificació dels Indicadors de Productivitat Total Quan es Considera el Mix de Productes i l'Ocupació de la Capacitat," **Jornadas sobre Productividad y Nuevas Tecnologías**, Colegio de Ingenieros Industriales de Catalunya, March, Barcelona. Spain. (E. Genescà).
- (1988), "Aspectos Conceptuales en la Medición de la Productividad Total de los Factores. Aplicación a Nivel de Empresa," **XIII Simposio de Análisis Económico**. Universitat Autònoma de Barcelona. September. Bellaterra. Barcelona. Spain.
- (1989), "Evolució de l'Estructura dels Costos i el Finançament Empresarial," **2 Congrés d'Economia de Catalunya**. February. Barcelona, Spain. (E. Genescà y T. Obis).
- (1991), "Cálculo de la Incidencia de la Productividad sobre la Cuantía de Beneficios," **I Congreso Nacional de la ACEDE**. Universidad de Alcalá de Henares. September. Alcalá de Henares. Madrid. Spain. (E. Genescà).
- (1992), "Eficiencia de Empresa y Eficiencia de Planta en los Modelos Frontera No-Paramétricos. Aplicación a las Cajas de Ahorro en España: 1989-1990," **Workshop: Analisis de la Eficiencia en las Empresas y el Sector Bancario**. June 11 - 12. Alicante. Spain. (V. Salas Fumas, D. Prior Jiménez).
- (1992), "Sesión Técnica de Líneas de Investigación sobre el Sistema Bancario Español," **Universidad Internacional Menéndez Pelayo**. July 20 - 24. Santander. Spain. (V. Salas Fumas, D. Prior Jiménez).
- (1992), "La Eficiencia Frontera en las Cajas de Ahorros Españolas," **VIII Jornadas de Economía Industrial**. September 24 - 25. Madrid. Spain. (V. Salas Fumas, D. Prior Jiménez).
- "Deregulation and Productivity Decline: The Case of Spanish Savings Banks," (C.A.K. Lovell).
- **Thirty-sixth Atlantic Economic Conference**. October 7 – 10, 1993. Philadelphia. Pennsylvania. (USA).
- **XVIII Simposio de Análisis Económico**. December 15 - 17, 1993. Universitat Autònoma de Barcelona. Bellaterra. Barcelona. Spain.
- **Workshop: Eficiencia en Banca**. December 9 – 10, 1993. Instituto Valenciano de Investigaciones Económicas. Valencia. Spain.
- **TIMS, XXXII Conference**. June 12 - 15, 1994. The Institute of Management Sciences. Anchorage. Alaska. (USA).
- "New decompositions of the Malmquist Productivity Index," (C.A.K. Lovell).
- **Third European Workshop on Efficiency and Productivity Measurement**. October 21 - 23, 1993. Center for Operations Research and Econometrics (CORE). Université Catholique de Louvain. Belgium.
- **XVIII Simposio de Análisis Económico**. December 15 - 17, 1993. Universitat Autònoma de Barcelona. Bellaterra. Barcelona. Spain.
- (1994), "New Decomposition of the Malmquist Productivity Index. With an Application to Spanish Savings Banks," **American Economic Association Meeting**. January 3 - 5. Boston.

- (USA). (C.A.K.Lovell).
- (1994), "Eficiencia y Economías de Escala en el Sector Bancario Español," **Sistema financiero Español 1994: Los Retos de la Competitividad. X Cursos Internacionales 1994**. September 12 – 16. Centro Universitario de la Universidad de Granada. Almuñecar. Granada. Spain.
  - "A Generalized Malmquist Productivity Index," (C.A.K. Lovell).
  - **21 Congreso de Estadística e Investigación Operativa**. April, 1994. Sociedad Española de Estadística e Investigación Operativa. Calella de Mar. Barcelona. Spain.
  - **Georgia Productivity Workshop**. October 20 – 23, 1994. The University of Georgia. Athens. Georgia. (USA).
  - **XIX Simposio de Análisis Económico**. December 14 – 16, 1994. Universitat Autònoma de Barcelona. Bellaterra. Barcelona. Spain.
  - **American Economic Association Meeting (ASSA)**. January 7 – 9, 1995. Washington D.C. (USA).
  - **European Economic Association Meeting**. September, 1995. Prague. Republic of Czechoslovakia.
  - "Productividad Total de los Factores: Eficiencia Técnica, Cambio y Sesgo Técnico en el Sector Textil-Confección Europeo," (J. López).
  - **Internacionalización y Competitividad Empresarial. IV Congreso Nacional. Asociación Científica de Economía y Dirección de la Empresa. ECEDE**. September 15 – 17, 1994. Barcelona. Spain.
  - **XIX Simposio de Análisis Económico**. December 14 – 16, 1994. Universitat Autònoma de Barcelona. Bellaterra. Barcelona. Spain.
  - (1995), "La Estructura del Cambio Productivo en el Sistema Financiero Español," **Workshop sobre Productividad, Eficiencia y Rentabilidad en Banca**. May 25 – 26, 1995. Institut Valencià d'Investigacions Econòmiques (IVIE). Valencia. Spain.
  - (1995), "Índices Generalizados de Malmquist: Una Aplicación al Sistema Financiero Español," **1er. Seminario Sobre Temas de empresa**. June 22 – 23. Zaragoza. Spain. (C.A.K. Lovell).
  - "Quasi - Malmquist Productivity Index," (C.K. Lovell, J. Pastor)
  - **Fourth European Workshop on Efficiency and Productivity Analysis**. October 26 – 28, 1995. Center for Operations Research and Econometrics (C.O.R.E.). Université Catholique de Louvain. Belgium.
  - **XX Simposio de Análisis Económico**. December 13 – 15, 1995. Universitat Autònoma de Barcelona. Bellaterra. Barcelona. Spain.
  - (1995), "The Sources of Productivity Change in Spanish Banking," **XX Simposio de Análisis Económico**. December 13 – 15, 1995. Universitat Autònoma de Barcelona. Bellaterra. Barcelona. Spain. (C.A.K. Lovell).
  - (1996), "Profits and Productivity: A Theoretical Analysis and an Empirical Application to Spanish Banking," **XII Jornadas de Economía Industrial**. September 19 – 20, 1996. Madrid. Spain. (C.A.K. Lovell).
  - (1996), "Biased Technical Change and the Malmquist Productivity Index," **XII Jornadas de Economía Industrial**. September 19 - 20, 1996. Madrid. Spain. (R. Färe, S. Grosskopf, C.A.K. Lovell).
  - "Profits and Productivity," (C.A.K. Lovell).
  - **INFORMS**. May 5 – 8, 1996. Washington D. C. (USA).
  - **Georgia Productivity Workshop II**. November 1 – 3, 1996. University of Georgia. Athens. Georgia. (USA).
  - **Sixty-Sixth Annual Conference of the Southern Economic Association**. November 23 – 25, 1996. Washington D.C. (USA).
  - **Wharton-Performance of Financial Institutions**. May 9 - 11, 1997. Wharton School, University of Pennsylvania. Philadelphia. Pennsylvania. (USA).
  - (1997), "An Economic Approach to the Analysis of Changes in Profitability," **INFORMS. Joint International Meeting, Euro XV - INFORMS XXXIV**. July 14 – 17. Barcelona. Spain. (C.A.K. Lovell).

- (1997), “Profitability Decomposition and Strategic Risk,” **INFORMS. Joint International Meeting, Euro XV - INFORMS XXXIV**. July 14 – 17. Barcelona. Spain. (P. Marquès).
- (1997), “A Parametric Stochastic Distance Function Approach for Malmquist Index Estimation: The Case of Spanish Insurance Companies,” **Fifth European Workshop on Efficiency and Productivity Analysis**. October 9 – 11. Copenhagen. Denmark. (H. Fuentes, S. Perelman). A Parametric Stochastic Distance Function Approach for Malmquist Index Estimation,” (H. Fuentes, S. Perelman).
- **INFORMS XXXV**. June 28 - July 1, 1998. Tel Aviv. Israel.
- **XXIII Simposio de Análisis Económico**. December 13 - 15, 1998. Universitat Autònoma de Barcelona. Bellaterra. Barcelona. Spain.
- -“Cost and Productivity,” (C.A.K. Lovell).
- **Fifth European Workshop on Efficiency and Productivity Analysis**. October 9-11, 1997.. Copenhagen. Denmark.
- **XIV Jornadas de Economía Industrial**. September 24 - 25, 1998. Fundación Empresa Pública. Madrid. Spain.
- **XXIII Simposio de Análisis Económico**. December 13 - 15, 1998. Universitat Autònoma de Barcelona. Bellaterra. Barcelona. Spain.
- (1998), “Productivity Change in the Spanish Insurance Industry,” **Third Biennial Georgia Productivity Workshop**. October 29 - 31. University of Georgia. Athens. Georgia. (USA). (S. Perelman y H. Fuentes).
- (1998), “Profitability Decomposition and Strategic Risk: Studying the Microsources of Performance Differentials,” **Fifth Annual International Conference on Advances in Management**. July. Lincoln. United Kingdom. (P. Marquès-Gou).
- (1999), “A Parametric Stochastic Distance Function Approach for Malmquist Index Estimation,” **International Economic Association**, September. Buenos Aires. Argentina. (H. Fuentes, S. Perelman).
- “An Economic Approach to the Decomposition of Variation in Banking Profitability,” (C.A.K. Lovell).
- **XXIV Simposio de Análisis Económico**. December 13 – 15, 1999. Universitat Autònoma de Barcelona. Bellaterra. Barcelona. Spain.
- **XV Jornadas de Economía Industrial**. September 22 – 24, 1999. Fundación Empresa Pública. Madrid. Spain.
- **Workshop on Banking and Finance**. May 19 – 20, 2000. Universidad Miguel Hernández. Elche. Spain.
- “The Managers vs the Consultants,” (C.A.K. Lovell).
- **Sixth European Workshop on Efficiency and Productivity Analysis**. October 29 – 31, 1999. University of Copenhagen. Copenhagen, Denmark.
- **II Oviedo Workshop on Efficiency and Productivity Program**. May 22 – 24, 2000. Universidad de Oviedo. Oviedo. Spain. (Keynote Speaker).
- **Jornada sobre Modelos de Caracterización de las Zonas de Distribución**. July 26, 2000. Comisión Nacional de Energía (CNE). Madrid, Spain.
- **XVI Jornadas de Economía Industrial**, September 20 – 22, 2000. Fundación Empresa Pública. Madrid. Spain.
- **XXV Simposio de Análisis Económico**. December 19 – 21, 2000. Universitat Autònoma de Barcelona. Bellaterra. Barcelona. Spain.
- **Workshop on Efficiency and Productivity**. April 27, 2002. Management Centre. University of Leicester. United Kingdom.
- **vii)Asian Conference on Efficiency and Productivity Growth**. July 19 -20, 2002. Taipei, Taiwan.
- **viii)Australian Meeting of the Econometric Society**. July 7 – 10, 2002. Australasian Meeting of the Econometric Society. Queensland University of Technology. Brisbane.

Australia.

- -“Capacity Utilization and Short-Run Profit Efficiency,” (S. Perelman and T. Coelli).
- **North American Productivity Workshop.** June 15 – 17, 2000. Union College Schenectady, New York. (USA).
- **I Encuentros de Economía Industrial.** September 13 – 14, 2001. Universitat Pompeu Fabra. Barcelona. Spain.
- **XXVI Simposio de Análisis Económico.** December 14 – 16, 2001. Universidad de Alicante. Alicante. Spain.
- (2001), “Productivity and Spanish Regulation of Electricity Distribution,” **Seventh European Workshop on Efficiency and Productivity Analysis.** September 25 – 27, 2001. Universidad de Oviedo. Oviedo. Spain. (L. Blazquez).
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