

References

- Ahlquist, J. S., & Breuning, C. (2012). Model-based clustering and typologies in the social sciences. *Political Analysis*, 20(1), 92–112.
- Ait-Sahalia, Y., Andritzky, J., Jobst, A., Nowak, S., & Tamirisa, N. (2012). Market response to policy initiatives during the global financial crisis. *Journal of International Economics*, 87(1), 162–177.
- Allen, D., & Tan, M. (1999). A test of the persistence in the performance of UK managed funds. *Journal of Business Finance & Accounting*, 26(5–6), 559–593.
- Aly, H. Y., Grabowski, R., Pasurka, C., & Rangan, N. (1990). Technical, scale, and allocative efficiencies in US banking: An empirical investigation. *The Review of Economics and Statistics*, 72(2), 211–218.
- Andreu, L., Sarto, J., & Vicente, L. (2014). Efficiency of the strategic style of pension funds: An application of the variants of the slacks-based measure in DEA. *Journal of Operational Research Society*, 65(12), 1886–1895.
- Andersen, P., & Petersen, N. C. (1993). A procedure for ranking efficient units in data envelopment analysis. *Management Science*, 10, 1261–1264.
- Andreu, L., Ferruz, L., Sarto, J. L., & Vicente, L. (2007). Análisis de la persistencia en rentabilidad de los FIAMM y de los determinantes de sus comisiones. *Revista Española de Financiación y Contabilidad*, 136, 689–706.
- Asaftei, G. (2008). The contribution of product mix versus efficiency and technical change in US banking. *Journal of Banking & Finance*, 32(11), 2336–2345.
- Athanassopoulos, A. D. (1997). Service quality and operating efficiency synergies for management control in the provision of financial services: Evidence from Greek bank branches. *European Journal of Operational Research*, 98(2), 300–313.
- Banker, R. D., Charnes, A., & Cooper, W. W. (1984). Some models for estimating technical and scale inefficiencies in data envelopment analysis. *Management Science*, 30(9), 1078–1092.
- Bartram, S., & Bodnar, G. (2009). No place to hide: The goal crisis in equity markets in 2008/2009. *Journal of International Money and Finance*, 28(8), 1246–1292.
- Basso, A., & Funari, S. (2001). A data envelopment analysis approach to measure the mutual fund performance. *European Journal of Operational Research*, 135(3), 477–492.
- Basso, A., & Funari, S. (2003). Measuring the performance of ethical mutual funds: A DEA approach. *Journal of the Operational Research Society*, 54(5), 521–531.

- Battese, G. E., Heshmati, A., & Hjalmarsson, L. (2000). Efficiency of labour use in the Swedish banking industry: A stochastic frontier approach. *Empirical Economics*, 25(4), 623–640.
- Bauer, P. W., Berger, A. N., Ferrier, G. D., & Humphrey, D. B. (1998). Consistency conditions for regulatory analysis of financial institutions: A comparison of frontier efficiency methods. *Journal of Economics & Business*, 50(2), 85–114.
- Bauer, P. W., Berger, A. N., & Humphrey, D. B. (1993). Efficiency and productivity growth in US banking. In E. H. Eried, S. Schmidt, & C. A. Lovell (Eds.), *The measurement of productive efficiency: Techniques and applications* (pp. 386–413). New York, NY: Oxford University Press.
- Benos, E., & Jochev, M. (2011). Short term persistence in mutual fund market timing and stock selection abilities. *Annals of Finance*, 7(2), 221–246.
- Benston, G. J. (1965). Branch banking and economies of scale. *The Journal of Finance*, 20(2), 312–331.
- Berg, S. A., Førsund, F. R., Hjalmarsson, L., & Suominen, M. (1993). Banking efficiency in the Nordic countries. *Journal of Banking & Finance*, 17(2–3), 371–388.
- Berg, S. A., Førsund, F. R., & Jansen, E. S. (1991). Technical efficiency of Norwegian banks: The non-parametric approach to efficiency measurement. *Journal of Productivity Analysis*, 2(2), 127–142.
- Berger, A. N., Cummins, J. D., Weiss, M. A., & Zi, H. (2000). Conglomeration versus strategic focus: Evidence from the insurance industry. *Journal of Financial Intermediation*, 9(4), 323–362.
- Berger, A. N., Hancock, D., & Humphrey, D. B. (1993). Bank efficiency derived from the profit function. *Journal of Banking & Finance*, 17(2–3), 317–347.
- Berger, A. N., Hasan, I., & Zhou, M. (2009). Bank ownership and efficiency in China: What will happen in the world's largest nation? *Journal of Banking & Finance*, 33(1), 113–130.
- Berger, A. N., & Humphrey, D. B. (1991). The dominance of inefficiencies over scale and product mix economies in banking. *Journal of Monetary Economics*, 28(1), 117–148.
- Berger, A. N., & Humphrey, D. B. (1997). Efficiency of financial institutions: International survey and directions for future research. *European Journal of Operational Research*, 98(2), 175–212.
- Berkowitz, M. K., & Qiu, J. (2003). Ownership, risk and performance of mutual fund management companies. *Journal of Economics & Business*, 55(2), 109–134.
- Bernanke, B. S. (2009). Lessons of the financial crisis for banking supervision. In *Federal Reserve Bank of Chicago's conference on bank structure and competition*, Chicago.
- Blake, C. R., Elton, E. J., & Gruber, M. J. (1993). The performance of bond mutual funds. *Journal of Business*, 66, 371–403.
- Blake, D., & Timmermann, A. (1998). Mutual fund performance: Evidence from the UK. *Review of Finance*, 2(1), 57–77.

- Bogle, J. C. (1992). Selecting equity mutual funds. *Journal of Portfolio Management*, 18(2), 94–100.
- Bollen, N., & Busse, J. (2004). Short-term persistence in mutual fund performance. *Review of Financial*, 18(2), 569–597.
- Bonin, J. P., Hasan, I., & Wachtel, P. (2005). Bank performance, efficiency and ownership in transition countries. *Journal of Banking & Finance*, 29(1), 31–53.
- Boonyasai, T., Grace, M. F., & Skipper, Jr H. D. (1999). *The effect of liberalization and deregulation on life insurer efficiency*. Working Paper. Georgia State University.
- Bowlin, W. F. (1998). Measuring performance: An introduction to data envelopment analysis (DEA). *The Journal of Cost Analysis*, 15(2), 3–27.
- Bradley, P. S., Fayyad, U., & Reina, C. (1998). Scaling clustering algorithms to large databases. In *KDD-98 proceedings* (pp. 9–15).
- Brockett, P. L., Charnes, A., Cooper, W. W., Huang, Z. M., & Sun, D. B. (1997). Data transformations in DEA cone ratio envelopment approaches for monitoring bank performances. *European Journal of Operational Research*, 98(2), 250–268.
- Brown, S., & Goetzmann, W. (1995). Performance persistence. *Journal of Finance*, 50(2), 679–698.
- Brown, S., Goetzmann, W., Ibbotson, R., & Ross, S. (1992). Survivorship bias in performance studies. *Review of Financial Studies*, 5(4), 553–580.
- Busse, J., Goyal, A., & Wahal, S. (2010). Performance and persistence in institutional investment management. *Journal of Finance*, 65(2), 765–790.
- Capon, N., Fitzsimons, G., & Prince, R. (1996). An individual level analysis of the mutual fund investment decision. *Journal of Financial Services Research*, 10(1), 59–82.
- Carhart, M. (1997). On persistence in mutual fund performance. *Journal of Finance*, 52(1), 57–82.
- Carpenter, J. N., & Lynch, A. W. (1999). Survivorship bias and attrition effects in measures of performance persistence. *Journal of Financial Economics*, 54, 337–374.
- Casarin, R., Lazzarin, M., Pellizon, L., & Sartore, D. (2005). Relative benchmark rating and persistence analysis: Evidence from Italian equity funds. *The European Journal of Finance*, 11(4), 297–308.
- Casu, B., Girardone, C., & Molyneux, P. (2004). Productivity change in European banking: A comparison of parametric and non-parametric approaches. *Journal of Banking & Finance*, 28(10), 2521–2540.
- Chaffai, M. E. (1997). Estimating input-specific technical inefficiency: The case of the Tunisian banking industry. *European Journal of Operational Research*, 98(2), 314–331.
- Chang, K. P. (2004). Evaluating mutual fund performance: An application of minimum convex input requirement set approach. *Computers & Operations*, 31(6), 929–940.
- Charnes, A., & Cooper, W. W. (1962). Programming with linear fractional functionals. *Naval Research Logistics Quarterly*, 9(3–4), 181–186.

- Charnes, A., Cooper, W. W., Golany, B., Seiford, L., & Stutz, J. (1985). Foundations of data envelopment analysis for Pareto–Koopmans efficient empirical production functions. *Journal of Econometrics*, 30(1–2), 91–107.
- Charnes, A., Cooper, W. W., & Rhodes, E. (1978). Measuring the efficiency of decision making units. *European Journal of Operational Research*, 2(6), 429–444.
- Chen, X. (2007). Banking deregulation and credit risk: Evidence from the EU. *Journal of Financial Stability*, 2(4), 356–390.
- Chen, Y., Gregoriou, G. N., & Rouah, F. D. (2009). Efficiency persistence of bank and thrift CEOs using data envelopment analysis. *Computers & Operations Research*, 36(5), 1554–1561.
- Choi, Y. K., & Murthi, B. (2001). Relative performance evaluation of mutual funds: A non-parametric approach. *Journal of Business Finance & Accounting*, 28(7–8), 853–876.
- Christensen, M. (2005). *Danish mutual fund performance-selectivity, market timing and persistence*. Working Paper Series, Aarhus School of Business, Finance Research Group.
- Christoffersen, S., & Musto, D. (2002). Demand curves and the pricing of money management. *The Review of Financial Studies*, 15(5), 1499–1524.
- Ciriaco, A., & Santamaría, R. (2005). Persistencia de Resultados en los Fondos de Inversión Españoles. *Investigaciones Económicas*, XXIX(3), 525–573.
- Cobb, C. W., & Douglas, P. H. (1928). A theory of production. *The American Economic Review*, 18(1), 139–165.
- Cochran, W. G. (1954). Some methods for strengthening the common χ^2 tests. *Biometrics*, 10(4), 417–451.
- Coelli, T., Prasada, D. S., O'Donnell, C. J., & Battese, G. E. (2005). *An introduction to efficiency and productivity analysis* (2nd ed.). New York, NY: Springer.
- Cohen, R., Coval, J., & Pastor, L. (2005). Judging fund managers by the company they keep. *Journal of Finance*, 60(3), 1057–1096.
- Colwell, R. J., & Davis, E. P. (1992). Output and productivity in banking. *The Scandinavian Journal of Economics*, 94(Supplement), 111–129.
- Cook, W. D., & Seiford, L. M. (2009). Data envelopment analysis (DEA) – Thirty years on. *European Journal of Operational*, 192(1), 1–17.
- Cooper, W. W., Seiford, L. M., & Tone, K. (2000). *Data envelopment analysis: A comprehensive text with models, applications, references and DEA-solver software* (2nd ed.). Boston, MA: Kluwer Academic Publishers.
- Cortez, M. D., Paxon, D. A., & Armada, M. D. (1999). Persistence in Portuguese mutual fund performance. *The European Journal of Finance*, 5(4), 342–365.
- Cortez, M. D., & Silva, F. (2002). Conditioning information on portfolio performance evaluation: A reexamination of performance persistence in the Portuguese mutual fund market. *Finance India*, 16(4), 1393–1408.
- Cummins, J. D., Rubio-Misas, M., & Zi, H. (2004). The effect of organizational structure on efficiency: Evidence from the Spanish insurance industry. *Journal of Banking & Finance*, 28(12), 3113–3150.

- Cummins, J. D., & Weiss, M. A. (2001). Analyzing firm performance in the insurance industry using frontier efficiency and productivity methods. *Huebner International Series on Risk, Insurance and Economic Security*, 22(VII), 767–829.
- Cummins, J. D., Weiss, M. A., Xie, X., & Zi, H. (2010). Economies of scope in financial services: A DEA efficiency analysis of the US insurance industry. *Journal of Banking & Finance*, 34(7), 1525–1539.
- Cummins, J. D., & Xie, X. (2008). Mergers and acquisitions in the US property-liability insurance industry: Productivity and efficiency effects. *Journal of Banking & Finance*, 32(1), 30–55.
- Cuthbertson, K., Nitzsche, D., & O'Sullivan, N. (2010). Mutual fund performance: Measurement and evidence. *Financial Markets, Institutions and Instruments*, 19(2), 95–187.
- Dahlquist, M., Engstrom, S., & Soderlind, P. (2000). Performance and characteristics of Swedish mutual funds. *Journal of Financial and Quantitative Analysis*, 35(3), 409–423.
- Daraio, C., & Simar, L. (2006). A robust nonparametric approach to evaluate and explain the performance of mutual funds. *European Journal of Operational Research*, 175(1), 516–542.
- Del Guercio, D., & Tkac, P. A. (2002). The determinants of the flow of funds of managed portfolios: Mutual funds vs. pension funds. *Journal of Financial and Quantitative Analysis*, 37(4), 523–558.
- Delhousse, B., Fecher, F., Perelman, S., & Pestieau, P. (1995). Measuring productive performance in the non-life insurance industry: The case of French and Belgian markets. *Review of Business and Economics*, 40(1), 47–69.
- Diacon, S. (2001). *The efficiency of UK general insurance companies*. Working Paper. University of Nottingham.
- Díaz-Mendoza, A. C., López-Espinosa, G., & Martínez, M. A. (2012). The efficiency of performance-based fee funds. *European Financial Management*, 20(4), 825–855.
- Domian, D. L., & Reichenstein, W. (1998). Performance and persistence in money market fund returns. *Financial Services Review*, 6(3), 169–183.
- Drake, L., & Howcroft, B. (1994). Relative efficiency in the branch network of a UK bank: An empirical study. *Omega*, 22(1), 83–90.
- Edison, H., Levine, R., Ricci, L., & Sløk, T. (2002). International financial integration and economic growth. *Journal of International Money and Finance*, 21(6), 749–776.
- Eling, M. (2006). Performance measurement of hedge funds using data envelopment analysis. *Financial Markets and Portfolio Management*, 20(4), 442–471.
- Eling, M., & Luhnen, M. (2010). Efficiency in the international insurance industry: A cross-country comparison. *Journal of Banking & Finance*, 34(7), 1497–1509.
- Elton, E., Gruber, M., & Blake, C. (1996). The persistence of risk-adjusted mutual fund performance. *The Journal of Business*, 69(2), 133–157.
- Elyasiani, E., & Jia, J. (2011). Performance persistence of closed-end funds. *Review of Quantitative Finance and Accounting*, 37(3), 381–408.

- Elyasiani, E., & Mehdiian, S. (1992). Productive efficiency performance of minority and nonminority-owned banks: A nonparametric approach. *Journal of Banking & Finance*, 16(5), 933–948.
- Elyasiani, E., & Mehdiian, S. M. (1990). A nonparametric approach to measurement of efficiency and technological change: The case of large US commercial banks. *Journal of Financial Services Research*, 4(2), 157–168.
- Emrouznejad, A., Parker, B. R., & Tavares, G. (2008). Evaluation of research in efficiency and productivity: A survey and analysis of the first 30 years of scholarly literature in DEA. *Socio-Economic Planning Sciences*, 42(3), 151–157.
- Fama, E., & French, K. (2010). Luck versus skill in the cross-section of mutual fund returns. *Journal of Finance*, 65(5), 1915–1947.
- Färe, R., & Lovell, C. A. (1978). Measuring the technical efficiency of production. *Journal of Economic Theory*, 19(1), 150–162.
- Farrell, M. J. (1957). The measurement of productive efficiency. *Journal of the Royal Statistical Society*, 120(3), 253–290.
- Fenn, P., Vencappa, D., Diacon, S., Klumpes, P., & O'Brien, C. (2008). Market structure and the efficiency of European insurance companies: A stochastic frontier analysis. *Journal of Banking & Finance*, 32(1), 86–100.
- Fernández de Guevara, J., Maudos, J., & Pérez, F. (2007). Integration and competition in the European financial markets. *Journal of International Money and Finance*, 26(1), 26–45.
- Forina, M., Armanino, C., & Raggio, V. (2002). Clustering with dendrograms on interpretation variables. *Analytica Chimica Acta*, 454(1), 13–19.
- Fried, H. O., Lovell, C. A., & Schmidt, S. S. (2008). Efficiency and productivity. In H. O. Fried, C. A. Lovell, & S. S. Schmidt (Eds.), *The measurement of productive efficiency and productivity growth* (pp. 3–90). New York, NY: Oxford University Press.
- Fukuyama, H. (1993). Technical and scale efficiency of Japanese commercial banks: A non-parametric approach. *Applied Economics*, 25(8), 1101–1112.
- Gallo, J. G., Apilado, V. P., & Kolari, J. W. (1996). Commercial bank mutual fund activities: Implications for bank risk and profitability. *Journal of Banking & Finance*, 20(10), 1775–1791.
- Giles, T., Wilsdon, T., & Worboys, R. (2002). *Performance persistence in UK equity funds: A literature review*. London: Charles River Associates.
- Glawischign, M., & Sommersguter-Reichmann, M. (2010). Assessing the performance of alternative investments using non-parametric efficiency measurement approaches: Is it convincing? *Journal of Banking & Finance*, 34(2), 295–303.
- Goddard, J., Molyneux, P., Wilson, J. O., & Tavakoli, M. (2007). European banking: An overview. *Journal of Banking & Finance*, 31(7), 1911–1935.
- Gottesman, A., & Morey, M. (2007). Predicting emerging market mutual fund performance. *Journal of Investing*, 16(3), 111–122.
- Grabowski, R., Rangan, N., & Rezvanian, R. (1993). Organizational forms in banking: An empirical investigation of cost efficiency. *Journal of Banking & Finance*, 17(2–3), 531–538.

- Greenbaum, S. I. (1967). Competition and efficiency in the banking system—empirical research and its policy implications. *The Journal of Political Economy*, 75(4), 461–479.
- Greene, W. H., & Segal, D. (2004). Profitability and efficiency in the US life insurance industry. *Journal of Productivity Analysis*, 21(3), 229–247.
- Gregoriou, G. N., & Gueyie, J. P. (2003). Risk-adjusted performance of funds of hedge funds using a modified Sharpe ratio. *The Journal of wealth management*, 6(3), 77–83.
- Gregoriou, G. N., Sedzro, K., & Zhu, J. (2005). Hedge fund performance appraisal using data envelopment analysis. *European Journal of Operational Research*, 164(2), 555–571.
- Grinblatt, M., & Titman, S. (1992). The persistence of mutual fund performance. *The Journal of Finance*, 47(5), 1977–1984.
- Grinblatt, M., & Titman, S. (1993). Performance measurement without benchmarks: An examination of mutual funds returns. *Journal of Business*, 66(1), 47–68.
- Gruber, M. (1996). Another puzzle: The growth in actively managed mutual funds. *The Journal of Finance*, 51(3), 783–810.
- Haberman, S. J. (1973). The analysis of residuals in cross-classified tables. *Biometrics*, 29, 205–220.
- Hallahan, T., & Faff, R. (2001). Induced persistence or reversals in fund performance? The effect of survivorship bias. *Applied Financial Economics*, 11(2), 119–126.
- Hendricks, D., Patel, J., & Zeckhauser, R. (1993). Hot hands in mutual funds: Short-run persistence of relative performance. *The Journal of Finance*, 48(1), 93–130.
- Holod, D., & Lewis, H. F. (2011). Resolving the deposit dilemma: A new DEA bank efficiency model. *Journal of Banking & Finance*, 35(11), 2801–2810.
- Hussels, S., & Ward, D. R. (2007). *The impact of deregulation on the German and UK life insurance markets: An analysis of efficiency and productivity between 1991–2002*. Working Paper. Cranfield University School of Management.
- Ippolito, R. (1992). Consumer reaction to measures of poor quality: Evidence from the mutual fund industry. *Journal of Law and Economics*, 35(1), 45–70.
- Jensen, M. (1968). The performance of mutual funds in the period 1945–1964. *Journal of Finance*, 23(2), 389–416.
- Kacperczyk, M., Sialm, C., & Zheng, L. (2008). Unobserved actions of mutual funds. *Review of Financial Studies*, 21(6), 2379–2416.
- Kahn, R., & Rudd, A. (1995). Does historical performance predict future performance? *Financial Analysts Journal*, 51(6), 43–52.
- Kaufman, L., & Rousseeuw, P. (2005). *Finding groups in data: An introduction to cluster analysis*. Hoboken, NJ: John Wiley & Sons.
- Kerstens, K., Mounir, A., & de Woestyne, I. V. (2011). Non-parametric frontier estimates of mutual fund performance using C- and L-moments: Some specification tests. *Journal of Banking & Finance*, 35(5), 1190–1201.

- King, P. (2012). Financial deregulation. In S. J. Smith, M. Elsinga, L. Fox-O'Mahony, S. E. Ong, & S. Wachter (Eds.), *International encyclopedia of housing and home* (pp. 176–180). Oxford: Elsevier.
- Kirkpatrick, G. (2009). The corporate governance lessons from the financial crisis. *Financial Markets Trends – OECD Journal*, 2009(3), 61–87.
- Kosowski, R., Timmermann, A., Wermers, R., & White, H. (2006). Can mutual fund “stars” really pick stocks? New evidence from a bootstrap analysis. *Journal of Finance*, 61(6), 2551–2595.
- Kumbhakar, S. C., Heshmati, A., & Hjalmarsson, L. (2002). How fast do banks adjust? A dynamic model of labor-use with an application to Swedish banks. *Journal of Productivity Analysis*, 18(1), 79–102.
- Lang, G., & Welzel, P. (1996). Efficiency and technical progress in banking: empirical results for a panel of German cooperative banks. *Journal of Banking & Finance*, 20(6), 1003–1023.
- Lehmann, B., & Modest, D. (1987). Mutual fund performance evaluation: A comparison of benchmarks and benchmark comparisons. *The Journal of Finance*, 42(2), 233–265.
- Lovell, C. A. (1993). Production frontiers and productive efficiency. In H. Fried, C. Lovell, & S. Schmidt, *The measurement of productive efficiency: Techniques and applications* (pp. 3–66). New York, NY: Oxford University Press.
- Lozano, S., & Gutiérrez, E. (2008a). Data envelopment analysis of mutual funds based on second-order stochastic dominance. *European Journal of Operational Research*, 189(1), 230–244.
- Lozano, S., & Gutiérrez, E. (2008b). TSD-consistent performance assessment of mutual funds. *Journal of the Operational Research Society*, 59(10), 1352–1362.
- Lynch, A., & Musto, D. (2003). How investors interpret past fund returns. *Journal of Finance*, 58(5), 2033–2058.
- Malkiel, B. G. (1995). Returns from investing in equity mutual funds 1971 to 1991. *The Journal of Finance*, 50(2), 549–572.
- Malmquist, S. (1953). Index numbers and indifference surfaces. *Trabajos de Estadística y de Investigación Operativa*, 4(2), 209–242.
- McCauley, R., McGuire, P., & Von Peter, G. (2012). After the global financial crisis: From international to multinational banking? *Journal of Economics & Business*, 64(1), 7–23.
- Mcnaughton-Smith, P., Williams, W. T., Dale, M. B., & Mockett, L. G. (1964). Dissimilarity analysis: A new technique of hierarchical sub-division. *Nature*, 202, 1034–1035.
- Medeiros, M. T. (2010). Efficiency evaluation of the Portuguese pension funds management companies. *Journal of International Financial Markets, Institutions & Money*, 20(3), 259–266.
- Mester, L. J. (1996). A study of bank efficiency taking into account risk-preferences. *Journal of Banking & Finance*, 20(6), 1025–1045.
- Mester, L. J. (1997). Measuring efficiency at US banks: Accounting for heterogeneity is important. *European Journal of Operational Research*, 98(2), 230–242.

- Mlima, A. P., & Hjalmarsson, L. (2002). Measurement of inputs and outputs in the banking industry. *Tanzanet Journal*, 3(1), 12–22.
- Murthi, B., Choi, Y. K., & Desai, P. (1997). Efficiency of mutual funds and portfolio performance measurement: A non-parametric approach. *European Journal of Operational Research*, 98(2), 408–418.
- Nguyen-Thi-Thanh, H. (2008). *On the consistency of performance measures for hedge funds*. Working Paper. University of Orleans.
- Ohsato, S., & Takahashi, M. (2015). Management efficiency in Japanese regional banks: A network DEA. *Procedia – Social and Behavioral Sciences*, 172, 511–518.
- Otten, R., & Bams, D. (2001). *Statistical tests for return-based style analysis*. Working Paper Series. EFMA 2001 Annual Meeting.
- Parsons, D., Gotlieb, C. C., & Denny, M. (1993). Productivity and computers in Canadian banking. *Journal of Productivity Analysis*, 4(1), 95–113.
- Pastor, J. M., Perez, F., & Quesada, J. (1997). Efficiency analysis in banking firms: An international comparison. *European Journal of Operational Research*, 98(2), 395–407.
- Philpot, J., Hearth, D., & Rimbey, J. (2000). Performance persistence and management skill in nonconventional bond mutual funds. *Financial Services Review*, 9, 247–258.
- Pi, L., & Timme, S. G. (1993). Corporate control and bank efficiency. *Journal of Banking & Finance*, 17(2–3), 515–530.
- Polwitoon, S., & Tawatnuntachai, O. (2006). Diversification benefits and persistence of US-based global bond funds. *Journal of Banking and Finance*, 30(2), 767–786.
- Prahalad, C. K., & Hamel, G. (1990). The core competence of the corporation. *Harvard Business Review*, 68(3), 79–91.
- Rohleder, M., Scholz, H., & Wilkens, M. (2011). Survivorship bias and mutual fund performance: Relevance, significance, and methodical differences. *Review of Finance*, 15(2), 441–474.
- Saari, S. (2006). Productivity, theory and measurement in business. *European Productivity Conference*. Finland.
- Salas, V., & Saurina, J. (2003). Deregulation, market power and risk behaviour in Spanish banks. *European Economic Review*, 47(6), 1061–1075.
- Sánchez-González, C., Sarto, J. L., & Vicente, L. (2017). The efficiency of mutual fund companies: Evidence from an innovative network SBM approach. *Omega*, 71, 114–128.
- Schaffnit, C., Rosen, D., & Paradi, J. C. (1997). Best practice analysis of bank branches: An application of DEA in a large Canadian bank. *European Journal of Operational Research*, 98(2), 269–289.
- Schmidt, P. (1985). Frontier production functions. *Econometric Reviews*, 4(2), 289–328.
- Schölkopf, B., Smola, A., & Müller, K. R. (1998). Nonlinear component analysis as a kernel eigenvalue problem. *Neural computation*, 10(5), 1299–1319.
- Sharpe, W. (1966). Mutual fund performance. *The Journal of Business*, 39(1), 119–138.

- Sherman, H. D., & Rupert, T. J. (2006). Do bank mergers have hidden or foregone value? Realized and unrealized operating synergies in one bank merger. *European Journal of Operational Research*, 168(1), 253–268.
- Silva, F., Cortez, M., & Armada, M. (2005). The persistence of European bond fund performance. *International Journal of Business*, 10(4), 341–361.
- Simonnard, M. (1966). *Linear programming*. Englewood Cliffs, NJ: Prentice-Hall.
- Sirri, E., & Tufano, P. (1998). Costly search and mutual fund flows. *The Journal of Finance*, 53(5), 1589–1622.
- Steinbach, M., Karypis, G., & Kumar, V. (2000). A comparison of document clustering techniques. *KDD Workshop on Text Mining*, 400(1), 525–526.
- Tangen, S. (2005). Demystifying productivity and performance. *International Journal of Productivity and Performance Management*, 54(1), 34–46.
- Ter Horst, J. R., Nijman, T. E., & De Roon, F. A. (1998). *Style analysis and performance evaluation of Dutch mutual funds*. Working Paper Series. Tilburg University, Center for Economic Research.
- Thompson, R. G., Brinkmann, E. J., Dharmapala, P., Gonzalez-Lima, M., & Thrall, R. M. (1997). DEA/AR profit ratios and sensitivity of 100 large US banks. *European Journal of Operational Research*, 98(2), 213–229.
- Tone, K. (2001). A slacks-based measure of efficiency in data envelopment analysis. *European Journal of Operational Research*, 130(3), 498–509.
- Tone, K. (2010). Variations on the theme of slacks-based measure of efficiency in DEA. *European Journal of Operational Research*, 200(3), 901–907.
- Tortosa-Ausina, E., Grifell-Tatje, E., Armero, C., & Conesa, D. (2008). Sensitivity analysis of efficiency and malmquist productivity indices: An application to Spanish savings banks. *European Journal of Operational Research*, 184(3), 1062–1084.
- Tulkens, H. (1993). On FDH efficiency analysis: Some methodological issues and applications to retail banking, courts, and urban transit. *Journal of Productivity Analysis*, 4(1), 183–210.
- Vicente, L., & Ferruz, L. (2005). Performance persistence in Spanish equity funds. *Applied Financial Economics*, 15(18), 1305–1313.
- Weiss, M. A. (1991). International P/L insurance output, input, and productivity comparisons. *The Geneva Papers on Risk and Insurance*, 16(2), 179–200.
- Yeh, Q. J. (1996). The application of data envelopment analysis in conjunction with financial ratios for bank performance evaluation. *Journal of the Operational Research Society*, 47(8), 980–988.
- Zhao, X., & Yue, W. (2010). A multi-subsystem fuzzy DEA model with its application in mutual funds management companies' competence evaluation. *Procedia Computer Science*, 1(1), 2469–2478.
- Zheng, L. (1999). Is money smart? A study of mutual fund investors' fund selection ability. *The Journal of Finance*, 54(3), 901–933.