



Kristiaan KERSTENS

Ph.D. in Economics Sciences

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EDUCATION

1994 Ph.D. in Economics Sciences, KU Brussel, Belgium

RESEARCH INTERESTS

Efficiency measurement (benchmarking) of private and public sector organisations, Portfolio optimisation with higher moments, Productivity indices and indicators (Total Factor Productivity)

COURSES TAUGHT

- Applied optimisation and heuristics, Grande ecole
- Efficiency and benchmarking in banking, Grande ecole
- Financial markets and institutions 2, Grande ecole
- Multi-moment portfolios: an introduction, Grande ecole
- Productivity and benchmarking in banking, Grande ecole

INTELLECTUAL CONTRIBUTIONS

Papers in refereed journals

Published

Briec W., Kerstens K., Prior D., Van de Woestyne I., (2018), Testing General and Special Färe-Primont Indices: A Proposal for Public and Private Sector Synthetic Indices of European Regional Expenditures and Tourism, *European Journal of Operational Research*

Briec W., Kerstens K., Van de Woestyne I., (2018), Hypercongestion in Production Correspondences: An Empirical Exploration, *Applied Economics*, 50(27), pp. 2938-2956

Kerstens K., Shen Z., Van de Woestyne I., (2018), Comparing Luenberger and Luenberger-Hicks-Moorsteen Productivity Indicators: How Well is Total Factor Productivity Approximated?, *International Journal of Production Economics*, 195, pp. 311-318

Kerstens K., Van de Woestyne I., (2018), Enumeration Algorithms for FDH Directional Distance Functions under Different Returns to Scale Assumptions, *Annals of Operations Research*, 271(2), pp. 1067-1078

Cesaroni G., Kerstens K., Van de Woestyne I., (2017), Global and Local Scale Characteristics in Convex and Nonconvex Nonparametric Technologies: A First Empirical Exploration, *European Journal of Operational Research*, 259(2), pp. 576-586

Cesaroni G., Kerstens K., Van de Woestyne I., (2017), A New Input-Oriented Plant Capacity Notion: Definition and Empirical Comparison, *Pacific Economic Review*, 22(4), pp. 720-739

- Cesaroni G., Kerstens K., Van de Woestyne I., (2017), Estimating Scale Economies in Non-Convex Production Models, *Journal of the Operational Research Society*, 68(11), pp. 1442-1451
- Briec W., Kerstens K., Van de Woestyne I., (2016), Congestion in Production Correspondences, *Journal of Economics*, 119(1), pp. 65-90
- Brandouy O., Kerstens K., Van de Woestyne I., (2015), Frontier-based vs. Traditional Mutual Fund Ratings: A First Backtesting Analysis, *European Journal of Operational Research*, 242(1), pp. 332-342
- Briec W., Kerstens K., Van de Woestyne I., (2014), Nonparametric Cost and Revenue Functions under Constant Economies of Scale: An Enumeration Approach for the Single Output or Input Case, *International Transactions in Operational Research*, 21(4), pp. 619-625
- Kerstens K., Van de Woestyne I., (2014), A Note on a Variant of Radial Measure Capable of Dealing with Negative Inputs and Outputs in DEA, *European Journal of Operational Research*, 234(1), pp. 341-342
- Kerstens K., Van de Woestyne I., (2014), Comparing Malmquist and Hicks-Moorsteen Productivity Indices: Exploring the Impact of Unbalanced vs. Balanced Panel Data, *European Journal of Operational Research*, 233(3), pp. 749-758
- Kerstens K., Van de Woestyne I., (2014), Solution Methods for Nonconvex Free Disposal Hull Models: A Review and Some Critical Comments, *Asia-Pacific Journal of Operational Research*, 31(1), pp. 1450010-1 - 1450010-13
- Briec W., Kerstens K., Van de Woestyne I., (2013), Portfolio Selection with Skewness: A Comparison of Methods and a Generalized One Fund Result, *European Journal of Operational Research*, 230(2), pp. 412-421
- Briec W., Kerstens K., Peypoch N., (2012), Exact Relations between Four Definitions of Productivity Indices and Indicators, *Bulletin of Economic Research*, 64(2), pp. 265-274
- De Borger B., Kerstens K., Prior D., Van de Woestyne I., (2012), Static Efficiency Decompositions and Capacity Utilisation: Integrating Technical and Economic Capacity Notions, *Applied Economics*, 44(31), pp. 4125-4141
- Kerstens K., Managi S., (2012), Total Factor Productivity Growth and Convergence in the Petroleum Industry: Empirical Analysis Testing for Convexity, *The International Journal of Production Economics*, 139(1), pp. 196-206
- Kerstens K., Mounir A., Van de Woestyne I., (2012), Benchmarking Mean-Variance Portfolios Using a Shortage Function: The Choice of Direction Vector Affects Rankings!, *Journal of the Operational Research Society*, 63(9), pp. 1199-1212
- Sahoo B., Kerstens K., Tone K., (2012), Returns to Growth in a Non-Parametric DEA Approach, *International Transactions in Operational Research*, 19(3), pp. 463-486
- Briec W., Cavaignac L., Kerstens K., (2011), Directional Measurement of Technical Efficiency of Production: An Axiomatic Approach, *Economic Modelling*, 28(3), pp. 775-781
- Briec W., Kerstens K., (2011), The Hicks-Moorsteen Productivity Index Satisfies the Determinateness Axiom, *Manchester School*, 97(4), pp. 765-775
- Epure M., Kerstens K., Prior D., (2011), Bank Productivity and Performance Groups: A Decomposition Approach Based upon the Luenberger Productivity Indicator, *European Journal of Operational Research*, 211(3), pp. 630-641
- Epure M., Kerstens K., Prior D., (2011), Technology-Based Total Factor Productivity and Benchmarking: New Proposals and an Application, *Omega, International Journal of Management Science*, 39(6), pp. 608-619
- Kerstens K., Mounir A., Van de Woestyne I., (2011), Geometric Representation of the Mean-Variance-Skewness Portfolio Frontier Based upon the Shortage Function, *European Journal of Operational Research*, 210(1), pp. 81-94
- Kerstens K., Mounir A., Van de Woestyne I., (2011), Non-Parametric Frontier Estimates of Mutual Fund performance Using C- and L-Moments: Some Specification Tests, *Journal of Banking & Finance*, 35(5), pp. 1190-1201
- Kerstens K., Van de Woestyne I., (2011), Negative Data in DEA: A Simple Proportional Distance Function Approach, *Journal of the Operational Research Society*, 62(7), pp. 1413-1419
- Brandouy O., Briec W., Kerstens K., Van de Woestyne I., (2010), Portfolio Performance Gauging in Discrete Time Using a Luenberger Productivity Indicator, *Journal of Banking & Finance*, 34(8), pp. 1899-1910
- Brandouy O., Kerstens K., Van de Woestyne I., (2010), Exploring Bi-Criteria versus Multi-Dimensional Lower Partial Moment Portfolio Models, *International Journal of Technology, Modeling & Management*, 1(1), pp. 25-39
- Briec W., Kerstens K., (2010), Portfolio Selection in Multidimensional General and Partial Moment Space, *Journal of Economic Dynamics & Control*, 34(4), pp. 636-656

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- Chumpitaz R., Kerstens K., Paparoidamis N., Staat M., (2010), Comparing Efficiency Across Markets: An Extension and Critique of the Zhang and Bartels (1998) Methodology, *European Journal of Operational Research*, 205(3), pp. 719-728
- Chumpitaz R., Kerstens K., Paparoidamis N., Staat M., (2010), Hedonic Price Function Estimation in Economics and Marketing: Revisiting Lancaster's Issue of "Noncombinable" Goods, *Annals of Operations Research*, 173(1), pp. 145-161
- Briec W., Kerstens K., (2009), Infeasibilities and Directional Distance Functions: With Application to the Determinateness of the Luenberger Productivity Indicator, *Journal of Optimization Theory and Applications*, 14(1), pp. 55-73
- Briec W., Kerstens K., (2009), Multi-horizon Markowitz portfolio performance appraisals: A general approach, *Omega, International Journal of Management Science*, 37(1), pp. 50-62
- Briec W., Kerstens K., (2009), The Luenberger Productivity Indicator: An Economic Specification Leading to Infeasibilities, *Economic Modelling*, 26(3), pp. 597-600
- Kjærsgaard J., Vestergaard N., Kerstens K., (2009), Ecological Benchmarking to Explore Alternative Fishing Schemes to Protect Endangered Species by Substitution: The Danish Demersal Fishery in the North Sea, *Environmental and Resource Economics*, 43(4), pp. 573-590
- Blancard S., Boussemart J., Briec W., Kerstens K., (2008), Technology Adoption in French Agriculture and the Role of Financial Constraints, *Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Agriculture*, 65(2), pp. 17-29
- De Borger B., Kerstens K., Staat M., (2008), Transit Costs and Cost Efficiency: Bootstrapping Non-Parametric Frontiers, *Research in Transportation Economics*, 23(1), pp. 53-64
- Grifell-Tatjé E., Kerstens K., (2008), Incentive Regulation and the Role of Convexity in Benchmarking Electricity Distribution: Economists versus Engineers, *Annals of Public and Cooperative Economics (Annales de l'Économie publique sociale et coopérative)*, 79(2), pp. 227-248
- Stefanou S., Kerstens K., (2008), Applied Production Analysis Unveiled in Open Peer Review: Introductory Remarks, *Journal of Productivity Analysis*, 30(1), pp. 1-6
- Briec W., Kerstens K., Jokung O., (2007), Mean-Variance-Skewness Portfolio Performance Gauging: A General Shortage Function and Dual Approach, *Management Science*, 53(1), pp. 135-149
- Blancard S., Boussemart J., Briec W., Kerstens K., (2006), Short- and Long-Run Credit Constraints in French Agriculture: A Directional Distance Function Framework Using Expenditure-Constrained Profit Functions, *American Journal of Agricultural Economics*, 88(2), pp. 351-364
- Briec W., Comes C., Kerstens K., (2006), Temporal Technical and Profit Efficiency Measurement: Definitions, Duality and Aggregation Results, *The International Journal of Production Economics*, 103(1), pp. 48-63
- Briec W., Kerstens K., (2006), Input, Output and Graph Technical Efficiency Measures on Non-Convex FDH Models with Various Scaling Laws: An Integrated Approach Based Upon Implicit Enumeration Algorithms, *TOP: An Official Journal of the Spanish Society of Statistics and Operations Research*, 14(1), pp. 135-166
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- Briec W., Kerstens K., Vanden Eeckaut P., (2004), Non-convex Technologies and Cost Functions: Definitions, Duality and Nonparametric Tests of Convexity, *Journal of Economics*, 81(2), pp. 155-192
- Blancard S., Boussemart J., Kerstens K., (2003), L'influence des contraintes de financement de court terme sur le profit des exploitations agricoles: Une approche non paramétrique, *Économie et Prévision (articles académiques)*, 159(3), pp. 71-81

- Boussemart J., Briec W., Kerstens K., Poutineau J.-C., (2003), Luenberger and Malmquist Productivity Indices: Theoretical Comparisons and Empirical Illustration, *Bulletin of Economic Research*, 55(4), pp. 391-405
- De Borger B., Kerstens K., Costa Á., (2002), Public Transit Performance: What Does One Learn From Frontier Studies?, *Transport Reviews*, 22(1), pp. 1-38
- Briec W., Kerstens K., Leleu H., Vanden Eeckaut P., (2000), Returns to Scale on Nonparametric Deterministic Technologies: Simplifying Goodness-of-Fit Methods Using Operations on Technologies, *Journal of Productivity Analysis*, 14(3), pp. 267-274
- De Borger B., Kerstens K., (2000), The Malmquist Productivity Index and Plant Capacity Utilization, *Scandinavian Journal of Economics*, 102(2), pp. 303-310
- Dervaux B., Kerstens K., Leleu H., (1999), Rationalisation de l'offre de soins en chirurgie: Réduction des surcapacités et réallocation sectorielle, *Revue Economique*, 50(3), pp. 645-655
- Kerstens K., (1999), Decomposing Technical Efficiency and Effectiveness of French Urban Transport, *Annales d'Économie et Statistiques*, (54), pp. 129-155
- Kerstens K., Vanden Eeckaut P., (1999), A New Criterion for Technical Efficiency Measures: Non-Monotonicity Across Dimensions Axioms, *Managerial and Decision Economics*, 20(1), pp. 45-59
- Kerstens K., Vanden Eeckaut P., (1999), Estimating Returns to Scale Using Nonparametric Deterministic Technologies: A New Method Based on Goodness-of-Fit, *European Journal of Operational Research*, 113(1), pp. 206-214
- De Borger B., Ferrier G., Kerstens K., (1998), The Choice of a Technical Efficiency Measure on the Free Disposal Hull Reference Technology: A Comparison using US Banking Data, *European Journal of Operational Research*, 105(3), pp. 427-446
- Dervaux B., Kerstens K., Vanden Eeckaut P., (1998), Radial and Nonradial Static Efficiency Decompositions: A Focus On Congestion Measurement, *Transportation Research: Part B: Methodological*, 32(5), pp. 299-312
- De Borger B., Kerstens K., (1996), Cost Efficiency of Belgian Local Governments: A Comparative Analysis of FDH, DEA, and Econometric Approaches, *Regional Science and Urban Economics*, 26(2), pp. 145-170
- De Borger B., Kerstens K., (1996), Radial and Nonradial Measures of Technical Efficiency: An Empirical Illustration for Belgian Local Governments using an FDH Reference Technology, *Journal of Productivity Analysis*, 7(1), pp. 41-62
- Kerstens K., (1996), Technical Efficiency Measurement and Explanation of French Urban Transit Companies, *Transportation Research: Part A: Policy and Practice*, 30(6), pp. 431-452
- De Borger B., Kerstens K., (1995), Produktiviteit en Efficiëntie in de Belgische Publieke Sector: Situering en Resultaten van Recent Empirisch Onderzoek, *Tijdschrift voor Economie en Management*, 40(2), pp. 101-131
- Kerstens K., Vanden Eeckaut P., (1995), The Economic Cost of Subsidy-Induced Technical Inefficiency: A Methodological Postscript, *International Journal of Transport Economics*, 22(2), pp. 225-229
- De Borger B., Kerstens K., Moesen W., Vanneste J., (1994), A Non-Parametric Free Disposal Hull (FDH) Approach to Technical Efficiency: An Illustration of Radial and Graph Efficiency Measures and Some Sensitivity Results, *Swiss Journal of Economics and Statistics*, 130(4), pp. 647-667
- Ferrier G., Kerstens K., Vanden Eeckaut P., (1994), Radial and Nonradial Technical Efficiency Measures on a DEA Reference Technology: A Comparison using US Banking Data, *Recherches Économiques de Louvain / Louvain Economic Review*, 60(4), pp. 449-479
- Kerstens K., De Borger B., Moesen W., Vanneste J., (1994), Explaining Differences in Productive Efficiency: An Application to Belgian Municipalities, *Public Choice*, 80(3-4), pp. 339-358
- De Borger B., Kerstens K., (1993), Technische Efficiëntie in de Gemeentelijke Voorzieningen, *Economisch en Sociaal Tijdschrift*, 47(4), pp. 665-690
- Kerstens K., Meyermans E., (1993), The Draft versus an All-Volunteer Force: Issues of Efficiency and Equity in the Belgian Draft, *Defence Economics*, 4(3), pp. 271-284
- De Borger B., Kerstens K., Moesen W., Vanneste J., (1990), Efficiency and Equity in Block Grant Design: Simulating some Alternatives for Flemish Municipalities, *Brussels Economic Review / Cahiers Économiques de Bruxelles*, 32(128), pp. 399-421

Forthcoming

- Cesaroni G., Kerstens K., Van de Woestyne I., (2018), Short- and Long-Run Plant Capacity Notions: Definitions and Comparison, *European Journal of Operational Research*, forthcoming, pp. 34 pages

Daraio C., Kerstens K., Nepomuceno T., Sickles R., (2018), Productivity and Efficiency Analysis Software: An Exploratory Bibliographical Survey of the Options, *Journal of Economic Surveys*

Kerstens K., O'Donnell C., Van de Woestyne I., (2018), Metatechnology Frontier and Convexity: A Restatement, *European Journal of Operational Research*, forthcoming(forthcoming), pp. forthcoming

Kerstens K., Sadeghi J., Van de Woestyne I., (2018), Plant Capacity and Attainability: Exploration and Remedies, *Operations Research*

Communications in refereed conferences

International

Kerstens K., Cesaroni G., Van de Woestyne I., (2017), *Short- and Long-run Plant Capacity Notions: Definitions and Comparison* 15 European Workshop on Efficiency and Productivity Analysis, London, United Kingdom

Kerstens K., Cesaroni G., Van de Woestyne I., (2017), *Short- and Long-run Plant Capacity Notions: Definitions and Comparison* 15th International Conference on Data Envelopment Analysis, Prague, Czech Republic

Kerstens K., Cesaroni G., Van de Woestyne I., (2016), *A New Input-Oriented Plant Capacity Notion: Definition and Empirical Comparison* North American Productivity Workshop IX, Quebec , Canada

Kerstens K., Van de Woestyne I., (2016), *The Remarkable Incidence of Congestion in Production: A Review and Empirical Illustration* Asia-Pacific Productivity Conference 2016, Tianjin , China

Kerstens K., O'Donnell C., Van de Woestyne I., (2015), *Frontier Metatechnologies and Convexity: A Restatement* 13th International Conference on Data Envelopment Analysis, Braunschweig , Germany

Kerstens K., O'Donnell C., Van de Woestyne I., (2015), *Frontier Metatechnologies and Convexity: A Restatement* Fourteenth European Workshop on Efficiency and Productivity Measurement, Helsinki, Finland

Kerstens K., O'Donnell C., Van de Woestyne I., (2015), *Frontier Metatechnologies and Convexity: A Restatement* OR2015, Wien, Austria

Cesaroni G., Kerstens K., Van De Woestyne I., (2014), *Local and Global Scale Characteristics in Non-Convex Nonparametric Technologies* 10th Asia-Pacific Productivity Conference, Brisbane , Australia

Cesaroni G., Kerstens K., Van De Woestyne I., (2014), *Local and Global Scale Characteristics in Non-Convex Nonparametric Technologies* 2014 Taiwan Productivity and Efficiency Conference, Taipei, Taiwan

Cesaroni G., Kerstens K., Van De Woestyne I., (2014), *Local and Global Scale Characteristics in Non-Convex Nonparametric Technologies* North American Productivity Workshop VIII, Ottawa , Canada

Kerstens K., Van de Woestyne I., (2014), *Convex and Nonconvex Cost Function Estimates Are Different: A Non-Parametric Approach With an Illustration on Scale Economies and Returns to Scale* 2014 Taiwan Productivity and Efficiency Conference, Taipei, Taiwan

Briec W., Kerstens K., Van De Woestyne I., (2013), *Risk-Loving and Risk-Averse Preferences in Portfolio Modelling: A Common Characterization using a Shortage Function* Financial Modelling Post-2008: Where Next? - ESRC Seminar 2 - Distributional Assumptions and Efficiency, St Andrews , United Kingdom

Briec W., Kerstens K., Van De Woestyne I., (2013), *Risk-Loving and Risk-Averse Preferences in Portfolio Modelling: A Common Characterization using the Shortage Function* Thirteenth European Workshop on Efficiency and Productivity Measurement, Helsinki, Finland

Kerstens K., Hachem B., Van de Woestyne I., (2012), *Scale Economies and Returns to Scale in Non-Parametric Cost and Production Models: Exploring the Impact of Convexity* 3rd Helsinki Workshop on Efficiency and Productivity Analysis (HeWEPA III), Helsinki, Finland

Kerstens K., Hachem B., Van de Woestyne I., (2012), *Scale Economies and Returns to Scale in Non-Parametric Models: Exploring the Impact of Convexity* NAPW VII - North American Productivity Workshop, Houston, USA

Kerstens K., Van de Woestyne I., (2012), *Primal Productivity Indices: Exploring the Impact of Unbalanced Panel Data* National Marine Fisheries Service Productivity Workshop, Santa Cruz, USA

Briec W., Kerstens K., Van de Woestyne I., (2011), *Polynomial Goal Programming and Shortage Function Approaches to Reconstruct MVS Portfolio Frontiers: A Preliminary Comparison* 12th European Workshop on Efficiency and Productivity Analysis, Verona, Italy

Kerstens K., (2010), *Non-Parametric Frontier Estimates of Mutual Fund Performance Using Cand L-Moments: Some Specification Tests* North American Productivity Workshop VI, Houston, USA

Kerstens K., Mounir A., (2009), *Non-Parametric Frontier Estimates of Mutual Funds: Some Specification Issues* Eleventh European Workshop on Efficiency and Productivity Measurement, Pisa, Italy

Kerstens K., (2008), *Performance Gauging in Discrete Time Using a Luenberger Portfolio Productivity Indicator* AFFI 2008, Lille, France

Blancard S., Boussemart J.-P., Briec W., Kerstens K., (2007), *Technology Adoption in French Agriculture and the Role of Financial Constraints* Tenth European Workshop on Efficiency and Productivity, Lille, France

Kerstens K., (2006), *Hedonic Price Function Estimation in Economics and Marketing: Revisiting Lancaster's Issue of 'Noncombinable' Goods* North American Productivity Workshop IV, New York, USA

Kerstens K., (2006), *Multi-horizon Markowitz Portfolio Performance Appraisals: A General Approach* 23rd International Symposium on Banking and Monetary Economics, Lille, France

Kerstens K., (2006), *Multi-horizon Markowitz Portfolio Performance Appraisals: A General Approach* Forecasting Financial Markets (FFM) Conference, Aix en Provence, France

Kerstens K., Staat M., Chumpitaz R., Paparoidamis N., (2006), *Hedonic Price Function Estimation in Economics and Marketing: 'Revisiting Lancaster's Issue of 'Non combinable Goods* North American Productivity Workshop IV, New York, USA

Paparoidamis N., Kerstens K., Chumpitaz R., (2006), *Measuring Market Efficiency Revisited* 35th European Marketing Academy (EMAC) Conference, Athens, Greece

Other conference and seminar presentations

International

Kerstens K., Sadeghi J., Van De Woestyne I., (2018), *Plant Capacity and Attainability: Exploration and Remedies* 12th Asia-Pacific Productivity Conference, Seoul, Korea

Kerstens K., Sadeghi J., Van De Woestyne I., (2018), *Plant Capacity and Attainability: Exploration and Remedies* DEA40: International Conference on Data Envelopment Analysis, London, United Kingdom

Kerstens K., Sadeghi J., Van De Woestyne I., (2018), *Plant Capacity and Attainability: Exploration and Remedies* 10th North American Productivity Workshop, Coral Gables , USA

Kerstens K., Cesaroni G., Van de Woestyne I., (2016), *A New Input-Oriented Plant Capacity Notion: Definition and Empirical Comparison* DEA2016 14th International Conference on Data Envelopment Analysis, Wuhan, China

National

Kerstens K., (2006), *Multi-horizon Markowitz Portfolio Performance Appraisals: A General Approach* 23èmes Journées de Microéconomie Appliquée, Nantes, France

Chapters in books

Published

Brandouy O., Kerstens K., Van de Woestyne I., (2013), *Backtesting Super-Fund Portfolio Strategies Based on Frontier-Based Mutual Fund Ratings* , in: Pasiouras, F.(Eds.), *Efficiency and Productivity Growth: Modelling in the Financial Services Industry* , 978-1-1199-6752-1, Wiley, Hoboken, NJ, chapter 7, pp. 135-170

Kerstens K., Moulaye Hachem B., Van de Woestyne I., Vestergaard N., (2010), *Optimal Capacity Utilization and Reallocation in a German Bank Branch Network: Exploring Some Strategic Scenarios* , in: Tavidze, A.(Eds.), *Progress in Economics Research* , 978-1-60741-667-8, Nova Science Publishers, New York, NY, chapter 2, pp. 35-61

De Borger B., Kerstens K., (2008), *The Performance of Bus-Transit Operators* , in: Hensher, D.A., Button, K.J.(Eds.), *Handbook of Transport Modelling* , 978-0080453767, Elsevier, Amsterdam, chapter 36, pp. 693-714

Chumpitaz R., Kerstens K., Paparoidamis N., (2006), Performancemessung im Marketing - Von ein- zu multidimensionalen und von Durchschnitts- zu Frontierkonzepten, in: Bauer, H., Staat, M., Hammerschmidt, M.(Eds.), *Marketing-Effizienz: Messung und Steuerung mit der DEA- Konzept und Einsatz in der Praxis*, 978-3800632855, Verlag Franz Vahlen, München, chapter 1, pp. 3-30

De Borger B., Kerstens K., (2000), The Performance of Bus Transit Operators, in: Hensher, D.A., Button, K.J.(Eds.), *Handbook of Transport Modelling*, 978-0080435947, Pergamon, Amsterdam, chapter 36, pp. 577-595

De Borger B., Kerstens K., (2000), What Is Known about Municipal Efficiency? The Belgian Case and Beyond, in: Blank, J.L.T.(Eds.), *Public Provision and Performance: Contributions from Efficiency and Productivity Measurement*, 978-0444504838, Elsevier, Amsterdam, chapter 12, pp. 299-330

Dervaux B., Kerstens K., Leleu H., (2000), Remedying Excess Capacities in French Surgery Units by Industry Reallocations: The Scope for Short and Long Term Improvements in Plant Capacity Utilization, in: Blank, J.L.T.(Eds.), *Public Provision and Performance: Contributions from Efficiency and Productivity Measurement*, 978-0444504838, Elsevier, Amsterdam, chapter 5, pp. 121-146

Kerstens K., Vanden Eeckaut P., (1999), Décomposition de l'efficacité technique: Illustration sur base des technologies FDH et DEA, in: Badillo, P.Y., Paradi, J.C.(Eds.), *La méthode DEA: analyse des performances*, 2-7462-0032-5, HERMES Science Publications – Lavoisier, Paris, chapter 4, pp. 101-121

De Borger B., Kerstens K., Van Dender K., (1997), Instrumenten voor een Transportbeleid, in: De Borger, B., Proost, S.(Eds.), *Mobiliteit: De Juiste Prijs*, 978-9053506110, Garant-Uitgevers, Antwerpen, chapter 3, pp. 81-124

De Borger B., Kerstens K., (1994), Produktiviteit en Efficiëntie in de Belgische Publieke Sector, in: de Groot, H., van Oosteren, C.G.M.(Eds.), *De Toekomst van de Publieke Sector*, 90-5250-736-8, Vuga uitgeverij, Den Haag, chapter 9, pp. 137-155

De Borger B., Kerstens K., Moesen W., Vanneste J., (1992), Efficienza e Equità nella Costruzione di un Sistema di Sussidi: Alcune Simulazioni sulle Municipalità Fiamminghe,, in: Pola, G.(Eds.), *Perequazione e Finanza Locale: Esperienze Europee a Confronto*, 978-8815033734, Il Mulino, Bologna, pp. 413-439

Kerstens K., (1988), Rationele Verklaringsmodellen in de Sociale Wetenschappen en in de Ethiek: of over het zich Uitbreidende Domein van de Economische Wetenschap, (Modèles de choix rationnels dans les sciences sociales et l'ethique : ou sur l'expansion territoriale des sciences économiques), in: Berghs, H. Thijs, W.(Eds.), *Congresbundel Filosofiedag Antwerpen 1988*, 978-9051660555, Uitgeverij Eburon, Delft, pp. 23-28

Research reports

De Borger B., Kerstens K., Moesen W., Vanneste J., Vansina Y., (1990), *De Kwantiteit en de Kwaliteit van de Lokale Publieke Voorzieningen: De Gemeentefinanciën in Crisis*, UFSIA

Working papers

Kerstens K., Sadeghi J., Van de Woestyne I., (2018), *Plant Capacity and Attainability: Exploration and Remedies*, IESEG Working Paper Series 2018-EQM-01

Baležentis T., Kerstens K., Shen Z., (2017), *An Environmental Luenberger-Hicks-Moorsteen Total Factor Productivity Indicator for OECD Countries*, IESEG Working Paper Series 2017-EQM-02

Kerstens K., Shen Z., Van de Woestyne I., (2017), *Comparing Luenberger and Luenberger-Hicks-Moorsteen Productivity Indicators: How Well is Total Factor Productivity Approximated?*, LEM Working Paper 2017-03

Kerstens K., Van de Woestyne I., (2017), *Enumeration Algorithms for FDH Directional Distance Functions under Different Returns to Scale Assumptions*, LEM Working Paper 2017-04

Kerstens K., Van de Woestyne I., (2017), *How Harmless is Convexification for Nonparametric Cost Function Estimates?*, IESEG Working Paper Series 2017-EQM-03

Kerstens K., Cesaroni G., Van De Woestyne I., (2017), *Short-and Long-Run Plant Capacity Notions: Definitions and Comparison*, IESEG Working Paper Series 2017-EQM-04

Kerstens K., Daraio C., Nepomuceno T., Sickles R., (2017), *Productivity and Efficiency Analysis Software: An Exploratory Bibliographical Survey of the Options*, IESEG Working Paper Series 2017-EQM-05

Kerstens K., Sadeghi J., Van de Woestyne I., (2017), *Convex and Nonconvex Input-Oriented Technical and Economic Capacity Measures: An Empirical Comparison*, IESEG Working Paper Series 2017-EQM-08

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De Borger B., Kerstens K., Moesen W., Vanneste J., (1990), *Efficiency and Equity in Block Grant Design: Simulating some Alternatives for Flemish Municipalities*, UFSIA

Kerstens K., (1989), *Voorbij het Utilitarisme: A. Sen over Rechtvaardigheid en Autonomie*, UFSIA

SCIENTIFIC PRIZES AND AWARDS

Award

2013 Prime d'excellence scientifique (2010-2013), CNRS, France

2012 Prime d'excellence scientifique (2010-2013), CNRS, France

2011 Prime d'excellence scientifique (2010-2013), CNRS, France

2010 Prime d'excellence scientifique (2010-2013), CNRS, France

Honor

2012 Outstanding peer reviewer, Elsevier, Netherlands

1999 "Citation of Excellence" (Highest Quality Rating), ANBAR Electronic Intelligence, Unknown

EDITORIAL ACTIVITY

Associate Editor in an academic journal

2016 Data Envelopment Analysis Journal

2011 International Journal of Portfolio Analysis & Management

2010 Journal of Productivity Analysis

2000 - 2006 TOP

INSTITUTIONAL SERVICE

Supervision of HDR:

2013 Director, Public Economics and Industrial Organisation – Empirical and Theoretical Considerations

Supervision of Ph.D. Thesis:

2013 Director, The Relation Between Technical Efficiency and Stock Returns: Evidence from the Us Airline Industry (1990-2012)

2011 Director, Frontier Estimation of Efficiency and Productivity: Some New Perspectives for Firms and Industry

2010 Co-director, Novel Perspectives on Technology-Based Efficiency and Productivity Analyses

2010 Co-director, On the Use of the Shortage Function in Portfolio Theory

2007 Co-director, Multiple Criteria Decision Making in Fisheries Management: Fleet Structure Adjustment, Conservation Aspects and Stake Holder Attitudes