FINAL PROGRAM

TENTH EUROPEAN WORKSHOP
ON
EFFICIENCY AND PRODUCTIVITY ANALYSIS

Lille, June 27-30, 2007

Efficiency and Productivity Analysis:
Retrospect and Prospect

Organised by
GAPEM
P. Agrell, K. Kerstens, P. Vanden Eeckaut

Hosted by
IÉSEG School of Management
Lille Economics & Management (CNRS)
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<th>Time</th>
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**Session 1** Wednesday, June 27, 2007 11:00 - 12:30

**Keynote I**
Building B - Ground Floor - Room B050

Efficiency and Productivity: Malmquist and More  
*Fare, Rolf*

Comment on: Efficiency and Productivity: Malmquist and More  
*Oulton, Nicholas*

Comment on: Efficiency and Productivity: Malmquist and More  
*ten Raa, Thijs*

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**Session 2** Wednesday, June 27, 2007 12:00 - 12:00 (next day)

**Poster I**
Building B - Ground Floor - Room EMF

An Assessment of Efficiency and Productivity Change of Central Administrative Services of UK Universities using Data Envelopment Analysis.  
*Bakoulas, Konstantinos - Thanassoulis, Emmanuel*

Productivity Performance of Regional Electric Cooperatives in the Philippines  
*Posadas, Ramon - Cabanda, Emelyn*

Corruption, Efficiency and Productivity Growth. A Non-Parametric Approach  
*Salinas-Jimenez, M. Mar - Salinas-Jiménez, Javier*

Random vs Fixed Restricted SUR Model: Case Study on a System of Cost and Factor Share Equations  
*Ouertani, Mohamed Nejib - Ben Jedidia, Lotfi*

Bridging Radial and Non-radial Measures of Efficiency in DEA  
*Tone, Kaoru - Tsutsui, Miki - Avkiran, Necmi*

Estimating Efficiency within the Manufacturing Sector in Kenya during the Structural Reform Period: An Empirical Analysis  
*Ngui, Dianah Mukwate - Thomi, Walter*

The Generalized Distance Function as a Solution to Infeasibility of Super Efficiency Models  
*Andrew, Johnson - McGinnis, Leon*

*Pachkova, Elena*

Improving Supply Chain Efficiency – A Strategic Decision-Making Analysis  
*Pasa, Iulia*

Is There a Link between Productivity Growth and Investment Bursts?  
*Geylani, Pinar - Stefanou, Spiro*
Session 3 Wednesday, June 27, 2007  14:00 - 15:30

Session 3 A  Network Industry (De)Regulation
Building A - First Floor - Room A101 J.M KEYSNES

Efficiency Measurement and Regulation in U.S. Telecommunications: a Robustness Analysis
Resende, Marcelo
European Railway Deregulation: The Influence of Regulatory and Environmental Conditions on Efficiency
Wetzel, Heike
Wheat, Phillip - Smith, Andrew
A Comparison of Railway Performance in Europe: an Application of Multi-Directional Efficiency Analysis
Holvad, Torben - Hougaard, Jens Leth - Kronborg, Dorte

Session 3 B  University Performance
Building A - Second Floor - Room A201 J. MONNET

Educational Offer Evaluation in Romanian Universities by Efficiency Techniques
Spircu, Tiberiu - Spircu, Liliana - Albu, Crisan
Budget Constrained Productivity of University Production
Räty, Tarmo - Kangasharju, Aki
Assessing the Performance of Spanish University Technology Transfer Offices
Caldera, Aida - Debande, Olivier
Scale, Age, Substitution Effects and their Interactions in Academic Production. A Disaggregated Analysis at Discipline Level
Bonaccorsi, Andrea - Daraio, Cinzia - Simar, Leopold

Session 3 C  Electricity Regulation I
Building A - First Floor - Room A103 M. CROZIER

Evaluating The Regulator: Winners and Lossers in the Spanish Electricity Distribution
Blazquez Gomez, MÂª Leticia - Grifell-Tatjé, Emili
Hybrid Frontier Yardstick Regulation for the German Energy Networks
Agrell, Per
Regulatory Benchmarking with Panel Data
Weyman-Jones, Thomas - Bagdadioglu, Necmiddin
**Session 3** Wednesday, June 27, 2007  14:00 - 15:30

**Session 3 D  Health I**  
Building A - First Floor - Room A121 M.E. PORTER

Membership in Hospital Organizations, Productivity Growth, and Technical Change for Non-profit Hospitals  
*Granderson, Gerald* - *Tauchen, Helen*

Resource Utilization in U.S. Hospital Markets  
*Valdmanis, Vivian* - *Ferrier, Gary* - *Leleu, Herve*

Complications! Complications! Complications! : Measuring Efficiency in Healthcare  
*Lordan, Grace*

Understanding (In)efficiency in Thai Publicly Owned Hospitals  
*Asavadachanukorn, Preecha* - *Yaisawarng, Saowaros* - *Yaisawarng, Suthathip*

**Session 3 E  Deregulation in Banking**  
Building A - First Floor - Room A120 E. MALINVAUD

Cost Structure, Ownership Effect and Competition: The Role of Deregulation and Prudential Re-Regulation  
*Zhao, Tianshu* - *Casu, Barbara* - *Ferrari, Alessandra*

Social Banking, Deregulation, and Profitability of Banks: The Indian Case  
*Mukherjee, Kankana* - *Das, Abhiman* - *Ray, Subhash*
Session 4 Wednesday, June 27, 2007 16:00 - 17:30

Session 4 A Health II
Building A - First Floor - Room A101 J.M KEYNES

Competition and Market Power in Physician Private Practices
Gunning, Timothy - Sickles, Robin

Economies of Scale and Efficiency Measurement in the Swiss Nursing Homes Industry
Farsi, Mehdi - Filippini, Massimo - Lunati, Diego

The Relationship between Physician Quality and Hospital Efficiency
Bernet, Patrick - Valdmanis, Vivian - Michael, Rosko

Motivating Physicians to Improve Their Efficiency: An Evaluation of a Pilot Scheme
Staat, Matthias

Session 4 B School Performance
Building A - Second Floor - Room A201 J. MONNET

The 65 Percent Problem
Grosskopf, Shawna - Hayes, Kathy - Taylor, Lori

Measuring Efficiency of Tunisian School in the Presence of Quasi-Fixed Inputs: A Bootstrap DEA Approach
Essid, Hedi - Ouelette, Pierre - Vigeant, Stéphane

Performance Evaluation of Portuguese Secondary Schools
Portela, Maria - Camanho, Ana

Session 4 C Electricity Regulation II
Building A - First Floor - Room A103 M. CROZIER

Total Factor Productivity and Technical Efficiency Measurement under Factor Nonsubstitution: An Application to US Electric Utilities
Genius, Margarita - Tzouvelekas, Vangelis - Stefanou, Spiro

A Synergy Effect between Electricity and Gas in US Energy Utility Industry: A Combined Use of DEA and DEA-Discriminant Analysis
Goto, Mika - Sueyoshi, Toshiyuki

Do Mergers Really Increase Efficiency? A Cost Efficiency Analysis of Electricity Distributors in the US
Hess, Borge

Productivity Development in the Swedish Electricity Distribution 2001-2005
Ek, Arvid Goran
Session 4 Wednesday, June 27, 2007  16:00 - 17:30

Session 4 D  Agriculture I
Building A - First Floor - Room A121 M.E. PORTER

Technical Efficiency and Technological Gaps for Dairy Farms in Three Southern Cone Countries
  Moreira, Victor - Bravo-Ureta, Boris
Productivity Differentials on Dairy Farms in Nordic Countries – The Metafrontier Approach
  Sipiäinen, Timo - Kumbhakar, Subal - Kuosmanen, Timo
Efficiency in Turkish Agriculture: A Household Level Analysis
  Dudu, Hasan - Çakmak, Erol Hasan - Öcal, Nadir
Farm Heterogeneity and Efficiency in Polish Agriculture: A Stochastic Frontier Analysis
  Hockmann, Heinrich - Pieniadz, Agata

Session 4 E  Insurance Applications
Building A - First Floor - Room A120 E. MALINVAUD

The Transition to the Single Market in the German Insurance Industry
  Url, Thomas - Mahlberg, Bernhard
Efficiency and Productivity in Thai Non-life Insurance Industry
  Yaisawarng, Saowaros - Asavadachanukorn, Preecha - Yaisawarng, Suthathip
Deregulation and Cost Efficiency: The Case of European Insurance
  Vencappa, Dev - Fenn, Paul

Session 4 F  Strategic and Industrial Issues in Banking
Building B - Second Floor - Room B253

Benchmarking and Industry Performance
  ten Raa, Thijs
Evaluation of Mix-Product Strategies among Different Market Environments: The Case of Retail Banking Industry
  Hubrecht, Aude - Leleu, Herve
The Shadow Price of Non Performing Loans in Tunisian Commercial Banks: A Directional Distance Approach
  Chaffai, Mohamed - Lassoued, Samia
Session 5 Thursday, June 28, 2007  09:00 - 10:30

Session 5 A  Nonparametric Statistical Estimation
Building A - First Floor - Room A101 J.M KEYNES

A Smooth Nonparametric Conditional Quantile Frontier Estimator  
Martins-Filho, Carlos - Yao, Feng
Statistical Inference in Conditional Robust Nonparametric Frontier Models  
Daraio, Cinzia - Simar, Leopold
Nonparametric Stochastic Frontier: The Multivariate Case with Stochastic Versions of  
FDH/DEA Estimators  
Simar, Leopold - Zelenyuk, Valent
Bandwidth Selection Problems for Nonparametric Estimation of Conditional Efficiency  
Scores  
Badin, Luiza - Simar, Leopold

Session 5 B  Advances in Production Theory I
Building A - Second Floor - Room A201 J. MONNET

Estimating Translated Demand Functions  
Fare, Rolf - Grosskopf, Shawna - Hayes, Kathy - Margaritis, Dimitri
A "Calculus" for Data Envelopment Analysis  
Chambers, Robert - Fare, Rolf
Properties of the Directional Distance Function as a Measure of Efficiency  
Russell, R. Robert - Schworm, William
The Partial Technical Efficiency Measure of Production  
Li, Sung-ko

Session 5 C  Methodological Advances in Banking Performance
Building A - First Floor - Room A103 M. CROZIER

Profit and Productivity: Differences Across Organizational Form  
Grifell-Tatjé, Emili - Lovell, C.A.Knox
Stochastic Frontiers with Bounded Inefficiency  
Qian, Junhui - Sickles, Robin
Quality Adjusted Inputs, Outputs and Productivity Change in Indian Banking: A Hedonic  
Approach  
Das, Abhiman - Kumbhakar, Subal
Foreign Ownership and Efficiency: The Case of Ukrainian Banking  
Dushkevych, Natalya
Session 5 Thursday, June 28, 2007 09:00 - 10:30

Session 5 D  Agriculture II
Building A - First Floor - Room A121 M.E. PORTER

Agglomeration Externalities and Technical Efficiency in Pig Production
_Larue, Solène - Latruffe, Laure_

Technology Adoption in French Agriculture and the Role of Financial Constraints
_Blancard, Stephane - Brièc, Walter - Boussemart, Jean-Philippe - Kerstens, Kristiaan_

Session 5 E  Electricity Regulation III
Building A - First Floor - Room A120 E. MALINVAUD

Incorporating Quality of Service in a Benchmarking Model: An Application to French Electricity Distribution Operators
_Plagnet, Marie-Anne - Crespo, Hélène - Perelman, Sergio - Romano, Elliot - Coelli, Tim_

Efficiency Effects of Integrating Quality of Service in Incentive Regulation: Experience from Norwegian Electricity Distribution
_Growitsch, Christian - Jamasb, Tooraj_

Regulation of Distribution Companies – DEA with Separable Costs
_Bjørndal, Endre - Bjørndal, Mette_

Incorporating Environmental Factors in the Regulatory Benchmarking Model for Electricity Distribution Companies in Norway.
_Grammelvedt, Thor Erik - Hansen, Wiljar - Langset, Tore - Wiull, Stig Olav_
Session 6 Thursday, June 28, 2007  11:00 - 12:30

Session 6 A  Semi-Parametric Approaches (YR)
Building A - First Floor - Room A101 J.M KEYNES

How to Expand Capacity of Tunisian’s Local Hospital in the Network Schema of Public Hospitals and Global Budgeting System: A Semi-Parametric Approach
   Chokri, Arfa - Leleu, Herve - Mohamed, Goaïed
Dealing with Environmental Variables in Efficiency Analysis of Transition Banking: A Comparison of Semi-Parametric and Non-Parametric Approaches
   Karligash, Kenjegaliieva - Weyman-Jones, Thomas - Simper, Richard
Semiparametric Estimation of Stochastic Frontiers under Regularity Conditions: A Single-Index Approach
   Kortelainen, Mika

Session 6 B  Efficiency & Productivity in Manufacturing (YR)
Building A - Second Floor - Room A201 J. MONNET

Convergence at the Industrial Level: Evidence from the OECD
   Wu, Xiaoyu - Russell, R. Robert
   Ngui, Dianah Mukwate - Becker, Claudia
Technical Change, Competitiveness and Poverty Reduction in the Ghanaian Apparel Industry
   Ayitey, Donatus Kosi

Session 6 C  Health (YR)
Building A - First Floor - Room A103 M. CROZIER

Measuring Efficiency in Healthcare: An Application to Out of Hours Primary Care Services on the Island of Ireland
   Lordan, Grace
Evaluating the Performance of Public Health Units Using DEA
   Lavado, Rouselle

Session 6 D  Agriculture (YR)
Building A - First Floor - Room A121 M.E. PORTER

Productivity Growth in Agriculture: Regional Evidence from Romania
   Aldea, Anamaria - Vidican, Georgeta
A Comparison of Stochastic Frontier Approaches to Estimating Inefficiency and Total Factor Productivity: An Application to Irish Dairy Farming
   Carroll, James - Newman, Carol - Thorne, Fiona
Distinguishing Technologies and Measuring Performance in Farm Production: The Case of Pennsylvania Dairy
   Emvalomatis, Grigorios - Stefanou, Spiro
Session 7 Thursday, June 28, 2007 12:00 - 12:00 (next day)

Poster II
Building B - Ground Floor - Room EMF

The Cell as an Economic Unit: Comparing the Efficiency of Metabolic Networks
Castelli, Lorenzo - Pesenti, Raffaele - Segrè, Daniel - Silli, Maddalena

On the Use of Ratios in DEA
Emrouznejad, Ali

Training Effects on Productivity and Wages Considering the Average Human Capital of Workers in the Production Function
Dumas, Audrey

Economic Growth and Foreign Direct Investment Inflows: A Stochastic Frontier Analysis
Villano, Renato - Dollery, Brian - Wijeweera, Albert

The Efficiency of US Gas Transmission Operators: Lessons for Regulators
Jamasb, Tooraj - Pollitt, Michael - Triebs, Thomas

Accounting for Environmental Differences in Estimating Productivity Change in the Australian Wool Industry
Villano, Renato - Fleming, Euan - Fleming, Pauline

Exploring Production-Theoretical Insights for Economic-Environmental Trade-Off Analysis
Van Meensel, Jef - Lauwers, Ludwig

Comparing Statistical Properties of Frontier Estimates When Some Outputs Are Undesirable
Salnykov, Mykhaylo

Total Factor Productivity of Ukraine: First Decade
Demchuk, Pavlo

Accounting for Undesirable Outputs and Non-Discretionary Inputs in the Olive Oil Industry Efficiency Analysis
Dios-Palomares, Rafaela - Prieto Gijarro, Ángel M. - Martínez-Paz, José Miguel

How Did Mandated Quality Investments Influence the Productivity and Profitability of English and Welsh Water Companies?
Maziotis, Alexandros - Saal, David - Thanassoulis, Emmanuel

Do Performance and Environmental Conditions influence Cross-Country Banking Activity in Europe?
Lozano-Vivas, Ana - Pastor, Jesús T.

Session 8 Thursday, June 28, 2007 14:00 - 15:30

Keynote II
Building B - Ground Floor - Room B050

DEA - The Mathematical Programming Approach to Efficiency Analysis
Thanassoulis, Emmanuel

Comment on: DEA - The Mathematical Programming Approach to Efficiency Analysis
Tind, Jørgen

Comment on: DEA - The Mathematical Programming Approach to Efficiency Analysis
Wilson, Paul
Session 9 Thursday, June 28, 2007  16:00 - 17:30

Session 9 A Advances in Production Theory II
Building A - First Floor - Room A101 J.M KEYNES

Quantile Estimation of Production Profile
Huang, Cliff - Fu, Tsu-tan - Yang, Yung-Lieh

Cost Allocation and Convex Envelopment
Hougaard, Jens Leth - Tind, Jørgen

The Estimation of Dual Cost Functions for Stochastic Technologies
Chambers, Robert

Stochastic Nonparametric Envelopment of Panel Data with Fixed and Random Effects
Kuosmanen, Timo

Session 9 B Nonparametric Specification Issues
Building A - Second Floor - Room A201 J. MONNET

Nonparametric Efficiency Analysis under Economies of Scope
De Rock, Bram - Cherchye, Laurens - Vermeulen, Frederic

Dynamic Measures of Economies of Scope
Oude Lansink, Alfons - Silva, Elvira - Stefanou, Spiro

Nonparametric Test of Congestion
Cavaignac, Laurent - Peypoch, Nicolas - Barros, Carlos

The Validity of Input Aggregation in DEA Models: A Statistical Test
Ray, Subhash - Mukherjee, Kankana

Session 9 C Banking Applications
Building A - First Floor - Room A103 M. CROZIER

South East Asian Banking after the Crisis: A Non-Parametric Analysis of the Impact of Environmental Factors
Mohd Khan, Shazida - Casu, Barbara

Consolidation and Innovation in U.S. Banking: A Dynamic Reallocation Approach
Bos, Jaap - Kolari, James W.
**Session 9** Thursday, June 28, 2007  16:00 - 17:30

**Session 9 D  Transport**
Building A - First Floor - Room A121  M.E. PORTER

Introducing Regulation in the Measurement of Efficiency, with an Application to the Canadian Air Carriers Industry  
*Ouellette, Pierre - Petit, Patrick - Vigeant, Stéphane*

Efficiency Measurement of Road Maintenance  
*Ozbek, Mehmet Egemen - De la Garza, Jesus M. - Triantis, Konstantinos*

Cost Efficiency and Economics of German Public Bus Operators - A Parametric Approach  
*von Hirschhausen, Christian - Wilhelm, Axel - Nieswand, Maria - Geissler, Marika*

**Session 9 E  Water Utilities**
Building A - First Floor - Room A120  E. MALINVAUD

Designing Incentives in Local Public Utilities, an International Comparison in the Drinking Water Sector  
*De Witte, Kristof - Marques, Rui Cunha*

Cost Efficiency of Slovenian Water Distribution Utilities: an Application of Stochastic Frontier Panel Data Methods  
*Zoric, Jelena - Filippini, Massimo - Hrovatin, Nevenka*

The Impact of OFWAT Incentives on Company Performance  
*Portela, Maria - Thanassoulis, Emmanuel - Horncastle, Alan - Maugg, Tobias*

Taking Into Account Environmental Variables in Frontier Models, a Metafrontier Approach to the Drinking Water Sector  
*De Witte, Kristof - Marques, Rui Cunha*

**Session 9 F  Asian and Middle East Banking**
Building B - Second Floor - Room B253

The Impact of Operational Risk toward the Efficiency of Banking: A Comparison of Taiwan’s and China’s Banking Industries  
*Cheng, Cheng-ping - Chen, Bih-Shiow*

The Efficiency Productivity of Jordanian Banking Sector in the Presence of Negative Output  
*Emrouznejad, Ali - Anouze, Abdel Latef*

On Measuring the Efficiency of Banks in Taiwan: A Stochastic Metafrontier Analysis  
*Sun, Chia-Hung*

A Comparison Between DEA and SFA Method in Japanese Banking Industry  
*Le, T.P.*
**Session 10** Friday, June 29, 2007  09:00 - 10:30

**Session 10 A  Banking: Industry Analysis**  
Building A - First Floor - Room A101  
J.M KEYNES

Robust Non-parametric Quantile Estimation of Efficiency and Productivity Change in U.S. Commercial Banking, 1985--2004  
*Wilson, Paul - Wheelock, David*

Measuring Market Power and Efficiency in Latin American Banking  
*Garza-Garcia, Jesus G. - Girardone, Claudia - Chortareas, Georgios*

Consolidation in the European Banking Industry: How Effective is it?  
*Lozano-Vivas, Ana - Kumbhakar, Subal - Fethi, Meryem Duygun - Shaban, Mohamed*

Efficiency in Islamic and Conventional Banking: An International Comparison  
*Abdul Majid, Mariani - Saal, David*

**Session 10 B  Agriculture III**  
Building A - Second Floor - Room A201  
J. MONNET

Farming Type and Performance: A Comparison of Conventional and Organic Dairy Production in the United States  
*Mosheim, Roberto*

Using Production Theoretic Concepts to Construct Soil Quality Indicators  
*Hailu, Atakelty - Chambers, Robert*

Estimating the Organizational Cost of Managing the Farm  
*Tauer, Loren*

The Decomposition of Cost Efficiency for the Italian Wine Industry: Co-Operatives vs Investor-Owned Firms  
*Maietta, Ornella Wanda - Perali, Federico*

**Session 10 C  Exploring Sources of Manufacturing Efficiency and Productivity**  
Building A - First Floor - Room A103  
M. CROZIER

Cost Efficiency of Electronic Firms in China  
*Xuejie, Bai - Hu, Jin-Li*

Analysis of Technical Efficiency of Manufacturing Firms in Spain  
*Arias, Carlos - Álvarez, Antonio*

Drivers of Productivity Differentials between Southern and Northern Manufacturing in Italy: Technical Inefficiencies or Allocative Distortions?  
*Petraglia, Carmelo - Erbetta, Fabrizio*

Do Infrastructure and Banking Efficiency Boost Productivity? Evidence from Italian Manufacturing Firms  
*Mastromarco, Camilla - Zago, Angelo - Aiello, Francesco*
**Session 10** Friday, June 29, 2007  09:00 - 10:30

**Session 10 D  Engineering Applications of Efficiency Analysis**  
Building A - First Floor - Room A121  M.E. PORTER

Developing Berth Planning System of Hyundai-Steel Dang-jin Port : Focused on Port Productivity  
*Young Yeon, Hwang*

Benchmarking Performance in Warehouse Operations  
*Andrew, Johnson - McGinnis, Leon*

Software Production Efficiency Measurement without Software Size Parameters Using DEA  
*Paradi, Joseph - McEachern, Christopher*

Real-Time Efficiency/Performance Evaluation: Iterative Aerospace Scheduler Algorithm Optimization for Multi-Payload Next Generation Commercial Satellite Imagers  
*Eichensehr, Phil - Triantis, Konstantinos*

**Session 10 E  Parametric Panel Production Analysis**  
Building A - First Floor - Room A120  E. MALINVAUD

Estimating Panel Stochastic Frontier Models with Fixed Effects by Model Transformation  
*Wang, Hung-Jen - Ho, Chia-Wen*

On the Sensitivity of US Electric Utilities' Efficiency Estimates – A Distance Function Approach  
*Hess, Borge - Growitsch, Christian*

**Session 10 F  Round Table**  
Building B - Second Floor - Room B253

Reforming Railways: Theoretical Insights and Practical Lessons  
*McMahon, Paul (UK Office of Rail Regulation) - Bouf, Dominique (Laboratoire d'Economie des Transports) - Rivera Trujillo, César (Instituto Mexicano del Transporte) - Holvad, Torben (European Railway Agency)*
Session 11 Friday, June 29, 2007  11:00 - 12:30

Session 11 A  Methodological Advances in Efficiency & Productivity I (YR)
Building A - First Floor - Room A101 J.M KEYNES

   *del Corral, Julio - Álvarez, Antonio - Alejandro, Fernández*
Improving Statistical Inference on Malmquist Productivity Indices.
   *Curi, Claudia - Daraio, Cinzia - Mancuso, Paolo - Simar, Leopold*
Dynamical Analysis of Malmquist Productivity Index.
   *Daskovska, Alexandra - Simar, Leopold - Van Bellegem, Sebastien*

Session 11 B  Transport (YR)
Building A - Second Floor - Room A201 J. MONNET

Measuring the Technical Efficiency of Railways in North America Before and After Privatization.
   *Rivera-Trujillo, Cesar - Mendoza-Diaz, Alberto*
Next Stop: Increased Efficiency? - A Non-parametric Efficiency Analysis of German Public Transport Companies
   *Cullmann, Astrid*

Session 11 C  Applications of Efficiency Analysis (YR)
Building A - First Floor - Room A103 M. CROZIER

German Higher Education Institutions and Efficiency - Empirical Evidence from a Data Envelopment Analysis Accounting for Heterogeneity
   *Olivares, Maria*
Technical Efficiency under Risk Aversion and Interconnection between Uncertainty Components: Assessment from Olive-Growing Farms in Tunisia
   *Ben Jemaa, Mohamed Mekki*
Session 12  Friday, June 29, 2007  12:00 - 12:00 (next day)

Poster III
Building B - Ground Floor - Room EMF

A Critique of the Minimax Approach to Efficiency Measurement.
  Tofallis, Chris

Stochastic Nonparametric Envelopment of Data: Cross-Sectional Frontier Estimation
  under Regularity Conditions
  Kortelainen, Mika - Kuosmanen, Timo

Innovations in the US Textile Industry: The Nonwoven Sector
  Christoffersen, Susan - Datta, Anusua

Technical Efficiency and Market Competitiveness in Electric Utility Industry
  Nemoto, Jiro - Goto, Mika

The Productive Performance of Public Health Care Centres in Cienfuegos, Cuba.
  Garcia Fariñas, Anaí

Social and Financial Performances in Microfinance Industry. Empirical Evidence from the
  Application of DEA and a Mutivariate Analysis to 28 Peruvian Microfinance Institutions.
  Cornée, Simon - Thenet, Gervais

On the Reliability of Approximating Shadow Prices by the VRS Piecewise Linear Frontier
  Li, Sung-ko - Sun, Jinchun

A Study of the Efficiency of Malaysian Anchor Banks: A DEA Analysis Approach
  Yoong Hon, Lee - Cheah, Eng Tuck - Lin Yu, Koay

Effects of FDI Flows on Aggregate Productive Efficiency: An Application on a Panel of the
  OECD Countries
  Kodjo-Komina, Kodjo - Kinda, Tidiane

Transportation Procurement Support Using Data Envelopment Analysis
  Brusset, Xavier - Agrell, Per - Bogetoft, Peter

Sustainable Value Analysis with Best Practice Benchmarks: A Nonparametric Frontier
  Approach
  Kuosmanen, Natalia - Kuosmanen, Timo

Session 13  Friday, June 29, 2007  14:00 - 15:30

Keynote III
Building B - Ground Floor - Room B050

The Econometric Approach to Efficiency Analysis
  Greene, William

Comment on: The Econometric Approach to Efficiency Analysis
  Sevestre, Patrick

Comment on: The Econometric Approach to Efficiency Analysis
  Simar, Leopold
Session 14  Friday, June 29, 2007  16:00 - 17:30

Session 14 A  Methodological Aspects in Nonparametric Analysis  
Building A - First Floor - Room A101 J.M KEYNES

Target and Technical Efficiency in DEA - Controlling for Environmental Characteristics  
Olesen, Ole B. - Petersen, Niels Christian
Computation Algorithms for DEA Models with Weight Restrictions  
Podinovski, Victor
Alternative Approaches to Include Exogenous Variables in Efficiency Analysis: A 
Comparison Using Monte Carlo Experimentation  
Cordero-Ferrera, J. M. - Pedraja Chaparro, F. - Santín González, D.
Separation of Uncontrollable Factors and Time Shift Effects from DEA Scores: Multi-Stage 
Data Adjustment Model Using DEA and Tobit with DMU Dummies  
Tsutsui, Miki - Tone, Kaoru

Session 14 B  Eco-Efficiency  
Building A - Second Floor - Room A201 J. MONNET

Incorporating both the Undesirable Output and the Uncontrollable Variables in DEA: The 
Performance of Chinese Coal-fired Power Plants  
Yang, Hongliang - Pollitt, Michael
Electric Utilities, Environmental Externalities and Cost Measured Productivity Growth  
Prior, Diego - Granderson, Gerald
Production-Theoretical Underpinnings of Eco-Efficiency: Marrying Diverse Methodological 
Approaches  
Lauwers, Ludwig - Meul, Marijke - Van Meensel, Jef - Van Passel, Steven
Eco-Efficiency as a New Principle for the Allowance Allocation Mechanism in Emission 
Trading  
Luptacik, Mikulas

Session 14 C  Socio-Economic and Environmental Performances  
Building A - First Floor - Room A103 M. CROZIER

A DEA Model as a Generalized Human Development Index  
Estellita Lins, Marcos - Moreira da Silva, Angela Cristina - Carvalho Pereira, Bárbara
Ranking Corporations Based On Their Social and Environmental Performance  
Constantin, Belu
Doing Bad to Do Better? Slack Patterns, Financial Performance and the Link to Corporate 
Social Responsibility  
Asmild, Mette - Chapple, Wendy - Hougaard, Jens Leth
**Session 14** Friday, June 29, 2007  16:00 - 17:30

**Session 14 D  Human Resources, Regulation, Incentives and Productivity**
Building A - First Floor - Room A121 M.E. PORTER

Productivity And Downsizing: Who Gets Fired? Evidence from One Consumer-Goods Industry in Russia
  *Rinaldi, Gustavo*
Secure Relative Performance Pay
  *Nielsen, Kurt*
Application of Efficiency Measurement in the Analysis of Entrepreneurial Processes
  *Tajnikar, Maks - Pusnik, Ksenja*
Price Cap Regulation with Imperfect Information
  *Lay, Helen - Weeks, Melvyn*

**Session 14 E  Marketing Performance**
Building A - First Floor - Room A120 E. MALINVAUD

Comparison of Two Alternative Store Formats using a Malmquist-Type Index
  *Vaz, Clara - Camanho, Ana*
Total Factor Productivity and the Role of Location & Ownership: Evidence from the UK Retail Sector
  *Anon Higon, Dolores*
Session 15 Saturday, June 29, 2007  09:00 - 10:30

Session 15 A  Parametric Frontier Applications
Building A - First Floor - Room A101  J.M KEYNES

Profit Efficiency in Social Labor Services
   Blank, Jos - Koot, Patrick
What Does the Distribution of Efficiency Look Like? A Nonparametric Deconvolution Approach
   Parmeter, Christopher - Horrace, William
Foreign Capital, Human Capital and Efficiency: A Stochastic Frontier Analysis for Developing Countries
   Mastromarco, Camilla - Ghosh, Sucharita
Productivity Differentials or Different Production Technologies?
   Bos, Jaap - Economidou, Claire - Koetter, Michael - Kolari, James W.

Session 15 B  Public Sector Contributions to Productivity
Building A - Second Floor - Room A201  J. MONNET

Research Efficiency in Public Centers: The Case of the Spanish Food Technology Program
   Zofio Prieto, Jose Luis - Zabala Iturriagagoitia, Jon Mikel - Jiménez Sáez, Fernando
Testing for Substitutability between Factors of Production with an Application to University Administration
   Ferrari, Alessandra - Casu, Barbara - Thanassoulis, Emmanuel - Despic, Ozren
Productivity, Spillovers and Human Capital
   Sena, Vanla

Session 15 C  Innovative DEA Applications
Building A - First Floor - Room A103  M. CROZIER

Co-plot: A Useful Tool to Detect Outliers in DEA
   Mahlberg, Bernhard - Raveh, Adi
Analyzing the Structure of Inefficiency
   Asmild, Mette - Bogetoft, Peter - Hougaard, Jens Leth
The Effect of Age on the Performance of Professional Golfers
   Fried, Harold - Tauer, Loren
What Can we Learn from the Application of Frontier Analysis to Sporting Performance
   Simpson, Gary
Session 15 Saturday, June 29, 2007  09:00 - 10:30

Session 15 D  IT and Productivity
Building A - First Floor - Room A121 M.E. PORTER

IT Productivity and Productivity Paradox: A Semiparametric Smooth Coefficient Estimation
Chen, Jong-Rong - Huang, Cliff - Liu, Ting-Kun

Does IT-Outsourcing Increase Firm Success? A Firm-level Investigation for Germany
Ohnemus, Joerg

Innovation, Investment and Imitation: How Information and Communication Technology Affected European Productivity Performance
Los, Bart - Timmer, Marcel

Session 15 E  Portfolio Performance
Building A - First Floor - Room A120 E. MALINVAUD

Portfolio Selection with Higher-Order L-Moments: A Robust Non-Parametric Mean-Variance-Skewness-Kurtosis Efficient Frontier
Jurczenko, Emmanuel - Maillet, Bertrand - Merlin, Paul - Yanou, Ghislain

Geometric Representation of the Mean-Variance-Skewness Portfolio Frontier: A Shortage Function Approach
Kerstens, Kristiaan - Van de Woestyne, Ignace - Mounir, Amine

Session 15 F  Round Table
Building B - Second Floor - Room B253

Efficiency Consultation in Engineering: Is it Worth the Investment?
Lay, Helen (Indepen Consulting) -
Walden, John B. (NOAA/NEFSC) -
Johnson, Andrew (Texas A&M University) -
Triantis, Kostas (Virginia Tech)
Session 16  Saturday, June 29, 2007  11:00 - 12:30

Session 16 A  Public Utilities & Regulation (YR)
Building A - First Floor - Room A101 J.M KEYNES

Incorporating the Price of Quality into Benchmarking UK Electricity Distribution
Yu, William - Jamasb, Tooraj - Pollitt, Michael

Predicting Efficiency Differentials for Operators under Multiple Regulators
Lorenz, Mathias - Agrell, Per

Spatial-Temporal Dimensions of Efficiency Among Electric Cooperatives in the Philippines
Lavado, Rouselle - Barrios, Ernie

Efficiency and Effectiveness in Water Distribution: A Challenge for African Companies
Tarsim, Achraf - Estache, Antonio – Perelman, Sergio – Saal, David

Session 16 B  Macro Economic and Environmental Issues (YR)
Building A - Second Floor - Room A201 J. MONNET

Regional Dimension of the Impact of Foreign Direct Investment on the Host Economy: A Case of Ukraine
Kravtsova, Victoria

Efficiency and Export Activities of Vietnamese Small and Medium Enterprises: Does Export Matter?
Nguyen Dinh, C. - Simpson, G. - Thanassoulis, E. - Nguyen Ngoc, A.

The Impact of ICT-use on Efficiency and Productivity
Bin, Wang - Hailin, Liao

Estimation of Environmental Efficiencies and Shadow Prices of Pollutants: Stochastic Frontier Analysis Approach
Salnykov, Mykhaylo

Session 16 C  Financial Sector (YR)
Building A - First Floor - Room A103 M. CROZIER

Cost and Revenue Efficiency in the German Life Insurance Industry: Direct versus Agent-based Insurers
Trigo Gamarra, Lucinda - Growitsch, Christian

Parametric Estimation of Merger Related Efficiency Gains
Gourlay, Adrian - Ravishankar, Geetha - Weyman-Jones, Thomas

Session 16 D  Methodological Advances in Efficiency & Productivity (YR)
Building A - First Floor - Room A121 M.E. PORTER

State-Space Models, Technological Change and Initial Conditions
Severgnini, Battista

Stochastic Frontier Model with Discrete Valued Dependent Variables
Fe-Rodriguez, Eduardo