



EWEA 2009

XI European Workshop on Efficiency
and Productivity Analysis



CONFERENCE PROGRAM



Pisa, June 23-26, 2009

School of Engineering - University of Pisa
POLO ETRURIA - Via Diotalvi, 2 – Pisa

Local Organizers

Andrea Bonaccorsi, Department of Electrical Systems and Automation, University of Pisa

Cinzia Daraio, CIEG Department of Management, University of Bologna

Federico Perali and **Angelo Zago**, Department of Economics, University of Verona

Program at a glance

Pre Conference		Room F1	Room F8	Room F9
June 23	9:00-10:30	Are services provided efficiently?	Contributing to a better public sector	
	11:00-12:30	The role of ICT on production	Agriculture and Natural Resources	
	14:00-16:00	Productivity at the macro level	Does regulation contribute to efficiency?	Productivity of manufacturing firms
	16:30-18:30	Management issues in agriculture	Banking issues under financial stress	Innovative non parametric applications

Conference		Room F9	Room F8	Room F1	Room F3	Room F5	Room F2	Room F6	Room F7
June 24	10:30-12:30	Plenary session I: Methodological Advancements in Efficiency and Productivity Analysis							
	14:00-15:30	Agriculture & Productivity	Financial Applications	Questioning SFA		Innovative DEA Applications	Network Energy	Panel Advances	<i>Interfaces with Eng. Appl. Round Table I</i>
	16:00-18:00	Agriculture & Transition	Banking Efficiency	Distance Functions	Economic Models	Manufacturing Applications	Education & Universities	Eco-Efficiency I	<i>Interfaces with Eng. Appl. Round Table II</i>
June 25	09:00-10:30	Dairy Farms		Health	Public Services & non profit	Cost & Revenue Efficiency	Education & Universities II	Eco-Efficiency II	Retail
	11:00-12:30	Milk Production	Innovative DEA Applications II	Health II	Regulation	Manufacturing Applications II	Information Technology	Municipalities	FDI
	14:00-15:30	Plenary session II: Frontier of Frontiers Applications to Growth							
	16:00-18:00	Dynamic Efficiency	Banking Productivity	Health III	Transportation	Statistical Issues	Education & Universities III	Country Productivity	<i>Special Session COST on STRIKE I</i>
June 26	09:00-10:30	Agriculture: size & scope	Bank Heterogeneity	Scale Efficiency	Network transportation	Manufacturing Applications III	Water Provision	R&D	<i>Special Session COST on STRIKE II</i>
	11:00-12:30	Plenary session III: The Economics and Productivity of Science and Higher Education							
	14:00-16:00	Agriculture & Environment	Bank & size	Innovative Indicators	Human Capital	DEA Advances	Education & Universities IV	Productivity & R&D	External factors



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Pre-conference: Young Researchers Workshop

Chair: Antonio Alvarez, University of Oviedo, Spain

Pre-conference Program Committee: A. Alvarez, A. Bonaccorsi, C. Daraio, P. Vanden Eeckaut and A. Zago

JUNE 23, 2009

8:30 – 8:45 Pre-registration and Registration

8:45 – 9:00 Welcome and Introduction by Antonio Alvarez

09:00 - 10:30

ARE SERVICES PROVIDED EFFICIENTLY?

ROOM: F1

CHAIR: PHILIPPE VANDEN EECKAUT

THE EFFICIENCY OF GERMAN PUBLIC THEATERS: A STOCHASTIC FRONTIER ANALYSIS APPROACH

Anne-Kathrin Last, Heike Wetzel

Presenter: LAST

Discussant: Philippe Vanden Eeckaut

MEASURING TECHNICAL EFFICIENCY OF THE MAIN CONTAINER PORTS IN MEXICO: AN APPLICATION OF STOCHASTIC FRONTIER ANALYSIS

Cesar Rivera-Trujillo, Alejandro Guerrero-Corrales

Presenter: TRUJILLO

Discussant: Tim Coelli

CONTRIBUTING TO A BETTER PUBLIC SECTOR

ROOM: F8

CHAIR: ANDREA BONACCORSI

DO UNIVERSITY UNITS DIFFER IN THE EFFICIENCY OF RESOURCE UTILIZATION?

Zara Daghbashyan

Presenter: DAGHBASHYAN

Discussant: Gary Ferrier

PROPOSAL OF A MODEL FOR PLANNING AND CONTROL AT THE PUBLIC UNIVERSITY: CONTRASTING THROUGH DETERMINISTIC AND STOCHASTIC FRONTIERS

Teodoro Reyes, Francisco Manuel Somohano, Francisco Javier Martínez

Presenter: SOMOHANO

Discussant: Andrea Bonaccorsi

INFRASTRUCTURE ACCESS IN AFRICA: CATCHING-UP AND CONVERGENCE DYNAMICS

Achraf Tarsim

Presenter: TARSIM

Discussant: Victor Podinovski

10.30 - 11.00 Coffee Break

11:00 - 12:30

THE ROLE OF ICT ON PRODUCTION

ROOM: F1

CHAIR: ANTONIO ALVAREZ

FIRM OWNERSHIP AND TECHNICAL EFFICIENCY : STOCHASTIC FRONTIER ANALYSIS

Ali Nabil Belouard

Presenter: BELOUARD

Discussant: Sergio Perelman

MEASURING ICT CAPITAL AND ITS IMPACT ON THE FIRM PRODUCTIVITY: MANUFACTURING FIRMS VERSUS FIRMS IN SERVICES

Marina Rybalka

Presenter: RYBALKA

Discussant: Jaap Bos

ICT INVESTMENT AND FIRM TECHNICAL EFFICIENCY

Concetta Castiglione

Presenter: CASTIGLIONE

Discussant: Antonio Alvarez

AGRICULTURE AND NATURAL RESOURCES

ROOM: F8

CHAIR: ROBERT CHAMBERS

EFFICIENCY ANALYSIS OF PORTUGUESE ARTISANAL DREDGE FLEET

Manuela M. Oliveira, Ana S. Camanho, Miguel B Gaspar

Presenter: OLIVEIRA

Discussant: Giannis Karagiannis

THE EFFECT OF LAND QUALITY ADJUSTMENT ON MEASURED TECHNICAL INEFFICIENCY. AN APPLICATION TO KENYAN HOUSEHOLD FARMERS

Simone Pieralli

Presenter: PIERALLI

Discussant: Camilla Mastromarco

12.30 - 14.00 Lunch

14:00 - 16:00

PRODUCTIVITY OF MANUFACTURING FIRMS

ROOM: F9

CHAIR: ANGELO ZAGO

PERFORMANCE ASSESSMENT OF CONSTRUCTION COMPANIES USING MALMQUIST PRODUCTIVITY INDICES AND CLUSTER ANALYSIS

Isabel Horta, Ana Camanho, Jorge Moreira Da Costa

Presenter: HORTA

Discussant: Bert Balk

TECHNICAL EFFICIENCY IN THE ITALIAN MACHINE TOOL INDUSTRY: THE EFFECT OF OUTSOURCING, SIZE, TYPE OF OWNERHIP AND LOCATION

Fabio Pieri

Presenter: PIERI

Discussant: Angelo Zago

GERMAN ENGINEERING FIRMS DURING THE 1990'S. HOW EFFICIENT ARE EXPORT CHAMPIONS?

Alexander Schiersch

Presenter: SCHIERSCH

Discussant: Harold Fried

DOES REGULATION CONTRIBUTE TO EFFICIENCY?

ROOM: F8

CHAIR: DAVID SAAL

DOES REGULATION INFLUENCE THE PERFORMANCE OF THE SOLID WASTE UTILITIES?

Pedro Simoes, Rui Marques

Presenter: SIMOES

Discussant: Robert Chambers

EFFICIENCY ANALYSIS OF GERMAN WATER UTILITIES

Michael Zschille, Jörn Guder, Barnabas Kittlaus, Robert Moll, Matthias Walter

Presenter: ZSCHILLE

Discussant: David Saal

EFFICIENCY OF TEXAS ELECTRICITY MARKET AFTER THE REFORM OF 1996

Pavlo Demchuk

Presenter: DEMCHUK

Discussant: Tim Coelli

TECHNICAL EFFICIENCY OF NATURAL GAS TRANSMISSION COMPANIES - IMPROVING NON-PARAMETRIC ESTIMATION USING PCA-DEA

Maria Nieswand, Astrid Cullmann, Anne Neumann

Presenter: NIESWAND

Discussant: Victor Podinovski

PRODUCTIVITY AT THE MACRO LEVEL

ROOM: F1

CHAIR: ROBIN SICKLES

LABOR PRODUCTIVITY CONVERGENCE IN TRANSITION COUNTRIES BEFORE AND AFTER THE COLLAPSE OF SOVIET UNION

Gul H. Kisla, Ertugrul Deliktas

Presenter: KISLA

Discussant: Camilla Mastromarco

TOTAL FACTOR PRODUCTIVITY GROWTH, TECHNOLOGICAL PROGRESS, AND EFFICIENCY CHANGES: EMPIRICAL EVIDENCE FROM CANADIAN MANUFACTURING INDUSTRIES

Mahamat Hamit-Haggar

Presenter: HAGGAR

Discussant: Robin Sickles

CAN INTEGRATION HELP TO CATCH UP?

Ali Aljane

Presenter: ALJANE

Discussant: Chris O'Donnell

16.00 - 16.30 **Coffee Break**

16:30 - 18:30

MANAGEMENT ISSUES IN AGRICULTURE

ROOM: F1

CHAIR: WILLIAM GREENE

THE RELATIVE EFFICIENCY OF WATER USE IN BANGLADESH AGRICULTURE

Nasima Chowdhury

Presenter: CHOWDHURY

Discussant: Massimo Filippini

THE SOURCES OF PRODUCTIVITY CHANGE IN HUNGARIAN AGRICULTURE: A STOCHASTIC FRONTIER ANALYSIS WITH UNOBSERVED HETEROGENEITY

Lajos Baráth

Presenter: BARATH

Discussant: William Greene

THE EFFECT OF INFORMATION NETWORKS ON EFFICIENCY

Christian H. C. A. Henning, Arne Henningsen, Geraldine Henningsen

Presenter: A. HENNINGSEN

Discussant: Timo Sipilainen

INNOVATIVE NON PARAMETRIC APPLICATIONS

ROOM: F9

CHAIR: LUIZA BADIN

INNOVATION EFFICIENCY ANALYSIS FOR ROMANIA

Monica Matei

Presenter: MATEI

Discussant: Luiza Badin

A METHOD FOR FINDING STRONG DEFINING HYPERPLANES OF PPS IN DEA

Israfil Roshdi, Mostafa Davtalab

Presenter: ROSHDI

Discussant: Maria Portela

BANKING ISSUES UNDER FINANCIAL STRESS

ROOM: F8

CHAIR: METTE ASMILD

PERFORMANCE EVALUATION OF THE BANKING SECTOR IN VIETNAM: A BAYESIAN APPROACH

Ha Vu

Presenter: VU

Discussant: Kristiaan Kerstens

EFFICIENCY ANALYSIS OF BANKS WITH CORPORATE SOCIAL RESPONSIBILITIES: THE CASE OF GHANA

Kwaku Ohene-Asare, Mette Asmild

Presenter: OHENE-ASARE

Discussant: Meryem Fethi

EFFICIENCY AND COMPETITION IN THE EU ENLARGED BANK SECTOR: A TWO STAGE APPROACH

Giuseppe Lubrano Lavadera

Presenter: LUBRANO LAVADERA

Discussant: Mette Asmild

19.00 Welcome Cocktail



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Conference Program

Conference Program Committee: A. Bonaccorsi, C. Daraio, F. Perali, P. Vanden Eeckout and A. Zago

JUNE 24, 2009

09:00 - 10:00 Registration

10:00 - 10:30 Opening Speeches

Andrea Bonaccorsi, Department of Electrical System and Automation, University of Pisa

Pierangelo Terreni, Dean, School of Engineering, University of Pisa

Ottorino Bruno, Director of the Department of Electrical System and Automation, University of Pisa

Vito Albino, President of the Italian Association of Management Engineering (AiIG)

10:30 - 12:30

PLENARY SESSION I

METHODOLOGICAL ADVANCEMENTS IN EFFICIENCY AND PRODUCTIVITY ANALYSIS

JUNE 24, 2009 10:30 - 12:30

ROOM: F9

Chair: Robin Sickles, Rice University, Houston, TX-USA

Measuring Efficiency in Productivity Analysis. Choosing a Model: implications and challenges

Keynote Speaker: Léopold Simar, Institute of Statistics and CORE, Université Catholique de Louvain, Belgium

Discussant: William Greene, NYU Stern School of Business, NY-USA

Comments by Harold Fried, Union College, Schenectady, NY-USA and Paul W. Wilson, Clemson University, Clemson, SC-USA

12:30 - 14:00 Lunch

14:00 - 15:30

ROUND TABLE INTERFACES WITH ENGINEERING APPLICATIONS I

ROOM: F7

DISCUSSION FRAMEWORK AND ISSUES, FACILITATORS: ANDREW JOHNSON AND KOSTAS TRIANTIS



Sponsored by

PERFORMANCE EFFICIENCY OF WAREHOUSE OPERATIONS: A NETWORK DEA ANALYSIS

Andrew Johnson, Kostas Triantis, Nasim Sabounchi

PERFORMANCE ASSESSMENT OF ALGORITHM PORTFOLIOS USING EFFICIENCY ANALYSIS TECHNIQUES

Gian Carlo Cainarca, Cinzia Daraio, Armando Tacchella

TRANSPORTATION NETWORK PERFORMANCE MEASUREMENT-THE IMPACT OF THE DOWNTOWN SPACE RESERVATION SYSTEM: A NETWORK-DEA APPROACH

Yueqin Zhao, Kostas Triantis

INNOVATIVE DEA APPLICATIONS**ROOM: F5**

CHAIRS: GIANNIS KARAGIANNIS, JOSEPH PARADI

A FIRST STAGE BOOTSTRAP DIRECTIONAL DISTANCE FUNCTION APPROACH: AN APPLICATION TO VEGETABLES PRODUCTION EFFICIENCY IN BENIN (WEST AFRICA)

Alphonse Singbo, Alfons Oude Lansink

Presenter: SINGBO**BANKRUPTCY PREDICTION USING DATA ENVELOPMENT ANALYSIS**

Angela Tran, Joseph Paradi

Presenter: PARADI**ANALYZING THE OPERATING EFFICIENCY OF GREEK FOOTBALL CLUBS**

Thanasis Bouzidis, Giannis Karagiannis

Presenter: BOUZIDIS**FINANCIAL APPLICATIONS****ROOM: F8**

CHAIRS: KRISTIAAN KERSTENS, MOHAMED SHABAN

RISK-ADJUSTED EFFICIENCY OF DUTCH PENSION FUNDS: A LATENT CLASS FRONTIER APPROACH

Lu Zhang, Jaap Bos, Iman Van Lelyveld

Presenter: ZHANG**FINANCIAL CENTRES: ARE THEY REALLY EFFICIENT?**

Mohamed Shaban, Meryem Duygun Fethi

Presenter: SHABAN**NON-PARAMETRIC FRONTIER ESTIMATES OF MUTUAL FUNDS: SOME SPECIFICATION ISSUES**

Amine Mounir, Ignace Van De Woestyne, Kristiaan Kerstens

Presenter: MOUNIR**NETWORK ENERGY****ROOM: F2**

CHAIRS: ENDRE BJØRNDAL, GORAN EK

HOW MUCH OF AN INCREASE IN THE PRODUCTIVITY IS SHARED BY THE CUSTOMERS?

Göran Ek

Presenter: GORAN EK**DIVESTURE, DISTRIBUTION EFFICIENCY AND OFFSETTING BENEFITS FROM POWER SOURCING**

John Kwoka, Michael Pollitt, Thomas Triebs

Presenter: TRIEBS**WEIGHT RESTRICTIONS IN THE DEA BENCHMARKING MODEL FOR NORWEGIAN ELECTRICITY DISTRIBUTION COMPANIES**

Endre Bjørndal, Mette Bjørndal, Ana Camanho, Vera Miguéis

Presenter: E. BJØRNDAL**PANEL ADVANCES****ROOM: F6**

CHAIRS: JESUS PASTOR, HUNG-JEN WANG

PANEL DATA DEA

Oleg Badunenko

Presenter: BADUNENKO**THE BIENNIAL MALMQUIST PRODUCTIVITY INDEX**

Jesus Pastor, Mette Asmild, C.a. Knox Lovell

Presenter: ASMILD**AN ALTERNATIVE ESTIMATOR FOR PANEL STOCHASTIC FRONTIER MODELS**

Hung-Jen Wang, Yi-Yi Chen

Presenter: WANG

QUESTIONING SFA?**ROOM: F1**

CHAIRS: HUNG-PIN LAI, ROBIN SICKLES

THE EFFECTS OF ENDOGENEITY IN STOCHASTIC FRONTIER ANALYSIS

Christopher Parmeter, Subal Kumbhakar

Presenter: PARMETER**ESTIMATION OF A STOCHASTIC FRONTIER MODEL WITH A SAMPLE SELECTION PROBLEM**

Hung-Pin Lai, Solomon W. Polachek, Hung-Jen Wang

Presenter: LAI**A SPARSE STOCHASTIC FRONTIER ESTIMATOR**

Christopher Parmeter, Subal Kumbhakar, Efthymios Tsionas

Presenter: PARMETER**THE SKEWNESS PROBLEM IN STOCHASTIC FRONTIER MODELS: FACT OR FICTION?**

Robin Sickles, Pavlos Almanidis

Presenter: SICKLES**AGRICULTURE & PRODUCTIVITY****ROOM: F9**

CHAIRS: TIM COELLI, ROBERT CHAMBERS

MEASUREMENT OF AGRICULTURAL TOTAL FACTOR PRODUCTIVITY GROWTH INCORPORATING ENVIRONMENTAL FACTORS: A NUTRIENTS BALANCE APPROACH

Viet-Ngu Hoang, Tim Coelli

Presenter: HOANG**USING DEA TO COMPUTE AND DECOMPOSE A MOORSTEEN INDEX OF PRODUCTIVITY CHANGE IN WORLD AGRICULTURE**

Chris O'Donnell

Presenter: O'DONNELL**PRODUCTIVITY DECOMPOSITION WHEN PRODUCER AND MARKET PRICES DIFFER: THE CASE OF US AGRICULTURE**

Subhal Kumbhakar, Eldon Ball

Presenter: BALL**MEASURING STOCHASTIC AGRICULTURAL PRODUCTIVITY**

Iosif Kafkalas, Robert Chambers

Presenter: KAFKALAS**15:30 - 16:00 Coffee Break****16:00 - 18:00****ROUND TABLE INTERFACES WITH ENGINEERING APPLICATIONS II****ROOM: F7**

DISCUSSION FRAMEWORK AND ISSUES FACILITATORS: ANDREW JOHNSON AND KOSTAS TRIANTIS

Sponsored by**EVALUATING THE PRODUCTIVE EFFICIENCY OF HIGHWAY MAINTENANCE OPERATIONS: ENVIRONMENTAL AND DYNAMIC CONSIDERATIONS**

Saeideh Fallah Fini, Kostas Triantis, Jesus De La Garza

EVALUATION OF R&D CORROSION PROJECTS

Daniel Dunmire, George Keller

TOTAL FACTOR PRODUCTIVITY GROWTH AND CONVERGENCE IN PETROLEUM INDUSTRY: AN EMPIRICAL ANALYSIS TESTING FOR NON-CONVEXITY

Shunsuke Managi, Kristiaan Kerstens

EVALUATION OF SOCIAL SERVICE OPERATIONS – LESSONS LEARNED FROM A REAL-LIFE IMPLEMENTATION

Kalyan Pasupathy

AGRICULTURE & TRANSITION**ROOM: F9**

CHAIRS: ANAMARIA ALDEA, SUBAL KUMBHAKAR

SEMIPARAMETRIC STOCHASTIC FRONTIER ANALYSIS: AN APPLICATION TO POLISH FARMS DURING TRANSITION

Arne Henningsen, Subal Kumbhakar

Presenter: A. HENNINGSEN**DYNAMICS OF PRODUCTIVITY CHANGE IN RUSSIAN AGRICULTURE**

Raushan Bokusheva, Heinrich Hockmann

Presenter: BOKUSHEVA**A MODEL FOR AUTOCORRELATED INEFFICIENCY IN PRODUCTION. APPLICATION TO DAIRY FARMERS IN GERMANY AND THE NETHERLANDS**

Grigorios Emvalomatis, Spiro Stefanou, Alfons Oude Lansink

Presenter: EMVALOMATIS**BOOTSTRAPPING EFFICIENCY ESTIMATORS TO STUDY TRANSITION EFFECTS IN AGRICULTURE**

Anamaria Aldea, Georgeta Vidican-Sgouridis

Presenter: ALDEA**BANKING EFFICIENCY****ROOM: F8**

CHAIRS: ANA LOZANO-VIVAS, DAVID TRIPE

EVALUATING RISK-TAKING IN BANK COST EFFICIENCY IN EU COUNTRIES

Subal C. Kumbhakar, Ana Lozano-Vivas

Presenter: LOZANO-VIVAS**COMPETITION AND EFFICIENCY IN BANKING: WHAT AFFECTS INTEREST RATE MARGINS IN LATIN AMERICA?**

Georgios Chortareas, Jesus Garza-Garcia, Claudia Girardone

Presenter: GARZA-GARCIA**ASSESSING THE STRUCTURAL EFFICIENCY: THE CASE OF BANKING IN LUXEMBOURG**

Claudia Curi, Paolo Guarda

Presenter: CURI**USING DEA TO INVESTIGATE BANK SAFETY AND SOUNDNESS – WHICH APPROACH WORKS BEST?**

David Tripe

Presenter: TRIPE**DISTANCE FUNCTIONS****ROOM: F1**

CHAIRS: WILLIAM SCHWORM, KAORU TONE

EFFICIENCY, SHORTAGE FUNCTIONS, ARBITRAGE, AND MARTINGALES

Robert Chambers, Rolf Färe

Presenter: CHAMBERS**FAMILIES OF LINEAR EFFICIENCY MODELS BASED ON DEBREU'S LOSS FUNCTION**

Jesus T. Pastor, C.a. Knox Lovell, Juan Aparicio

Presenter: PASTOR**VARIATIONS ON THE THEME OF SLACKS-BASED MEASURE OF EFFICIENCY IN DEA**

Kaoru Tone

Presenter: TONE**BOUNDARY PROBLEMS WITH THE "RUSSELL" GRAPH MEASURE OF TECHNICAL EFFICIENCY: A REFINEMENT**

R. Robert Russell, William Schworm

Presenter: SCHWORM

ECO-EFFICIENCY I**ROOM: F6**

CHAIRS: SCOTT ATKINSON, GERALD GRANDERSON

THE IMPACTS OF ADJUSTMENT CLAUSES, EMISSIONS REDUCTION, AND REGULATION, ON INPUT SUBSTITUTION AND PRODUCTION COST

Gerald Granderson

Presenter: GRANDERSON**EFFICIENCY EFFECTS OF QUALITY OF SERVICE AND ENVIRONMENTAL FACTORS: EXPERIENCE FROM NORWEGIAN ELECTRICITY DISTRIBUTION**

Christian Growitsch, Tooraj Jamasb

Presenter: GROWITSCH**MEASURING ECO-EFFICIENCY: ABSOLUTE VS RELATIVE SHADOW PRICES**

Javier Ribal, Neus Sanjuán, Loreto Fenollosa, Gabriela Clemente

Presenter: RIBAL**ALLOCATIVE EFFICIENCY, TECHNICAL EFFICIENCY, AND PRODUCTIVITY CHANGE WITH GOODS AND BADS**

Scott Atkinson, Daniel Primont

Presenter: ATKINSON**ECONOMIC MODELS****ROOM: F3**

CHAIRS: BERT M. BALK, WALTER BRIEC

TOTAL FACTOR PRODUCTIVITY AND COMPETITIVE BEHAVIOR UNDER VARYING RETURNS TO SCALE

Sara Ambroso, Peter Kort, Bertrand Melenberg, Jef Plasmans, Mark Vancauteren

Presenter: VANCAUTEREN**MEASURING AND RELATING AGGREGATE AND SUBAGGREGATE PRODUCTIVITY CHANGE WITHOUT NEOCLASSICAL ASSUMPTIONS**

Bert M. Balk

Presenter: BALK**RATIONALISING DEA ESTIMATED INEFFICIENCIES**

Jens Leth Hougaard, Mette Asmild, Peter Bogetoft

Presenter: HOUGAARD**A B-CONVEX PRODUCTION MODEL FOR EVALUATING PERFORMANCE OF FIRMS**

Walter Briec, Charles Horvath

Presenter: BRIEC**MANUFACTURING APPLICATIONS****ROOM: F5**

CHAIRS: ROSA BERNARDINI PAPALIA, ALMAS HESHMATI

INNOVATION AND PRODUCTIVITY IN SMES: EMPIRICAL EVIDENCE FOR ITALY

Bronwyn Hall, Francesca Lotti, Jacques Mairesse

Presenter: MAIRESSE**ECONOMIC REFORMS AND REGIONAL INDUSTRIAL GROWTH IN INDIA**

Suresh Babu, Rajesh Raj

Presenter: BABU**TECHNICAL CHANGE AND TOTAL FACTOR PRODUCTIVITY GROWTH FOR SWEDISH MANUFACTURING AND SERVICE INDUSTRIES**

Donghyun Oh, Almas Heshmati, Hans Lööf

Presenter: HESHMATI**DECOMPOSING PRODUCTIVITY DIFFERENTIALS: EVIDENCE FROM FOREIGN OWNED AND DOMESTIC FIRMS IN ITALY**

Rosa Bernardini Papalia, Pinuccia Calia

Presenter: BERNARDINI PAPALIA

EDUCATION & UNIVERSITIES

ROOM: F2

CHAIRS: ANDREA BONACCORSI, CINZIA DARAIO

EFFICIENCY OF GERMAN UNIVERSITIES: A STOCHASTIC FRONTIER ANALYSIS ACCOUNTING FOR ENVIRONMENTAL FACTORS WITH RESPECT TO BOLOGNA

Maria Olivares, Heike Wetzel

Presenter: OLIVARES

COLLABORATIVE NETWORKS IN ACADEMIA: THE IMPACT OF NETWORK STRUCTURE ON NETWORK PERFORMANCE

Antonio Messeni Petruzzelli, Nunzia Carbonara, Daniele Rotolo

Presenter: ROTOLO

EXPLAINING REGIONAL DISPARITY IN EDUCATION IN BELGIUM - A R.E.S.T. APPROACH

Marijn Verschelde, Jean Hindriks, Glenn Rayp, Koen Schoors

Presenter: VERSHELDE

THE EFFICIENCY OF UNIVERSITY RESEARCH: AN EMPIRICAL ANALYSIS IN THE LOMBARDY REGION

Tommaso Agasisti, Antonio Dal Bianco, Paolo Landoni, Alessandro Sala, Mario Salerno

Presenter: AGASISTI

NOBODY IS SELLING THE IVORY TOWER. ANOTHER LOOK AT TRADE-OFFS IN UNIVERSITY PRODUCTION

Andrea Bonaccorsi, Cinzia Daraio, Léopold Simar

Presenter: BONACCORSI

20:30 Social Dinner at Chiostro di San Francesco, Pisa

JUNE 25, 2009

09:00 - 10:30

COST & REVENUE EFFICIENCY

ROOM: F5

CHAIRS: SUBAL KUMBHAKAR, PHILIPPE VANDEN EECKAUT

ENDOGENEITY IN DISTANCE FUNCTIONS AND GMM ESTIMATION

Zhengfei Guan, Subal Kumbhakar

Presenter: KUMBAKHAR

TECHNICAL EFFICIENCY BASED ON COST GRADIENT MEASURE

Miki Tsutsui, Kaoru Tone, Yuichiro Yoshida

Presenter: TSUTSUI

COMPUTATION OF COST EFFICIENCY IN NON CONVEX FRAMEWORK.

Philippe Vanden Eeckaut

Presenter: VANDEN EECKAUT

DAIRY FARMS

ROOM: F9

CHAIRS: ABID BURKI, ROBERTO MOSHEIM

DIRECTIONAL DISTANCE FUNCTION AND BOOTSTRAPPING : AN APPLICATION TO COOPERATIVES AND THE INVESTOR-OWNED FIRMS OF THE EUROPEAN DAIRY SECTOR

Rafat Soboh, Alfons Oude Lansink, Gert Van Dijk

Presenter: SOBOH

A COMPARISON OF CONVENTIONAL AND ORGANIC DAIRY PRODUCTION IN THE UNITED STATES

Roberto Mosheim

Presenter: MOSHEIM

EVALUATION OF EFFICIENCY IMPROVEMENT POTENTIAL ON FINNISH DAIRY FARMS

Timo Sipiläinen, Sami Ovaska

Presenter: SIPILAINEN

EFFECTS OF DEPRESSION ON TECHNICAL EFFICIENCY OF DAIRY FARMS IN RURAL PAKISTAN

Abid Burki, Mushtaq Khan

Presenter: BURKI

ECO-EFFICIENCY II

ROOM: F6

CHAIRS: TIM COELLI, MIKULAS LUPTACIK

ENVIRONMENTALLY SENSITIVE PRODUCTIVITY ANALYSIS: BAYESIAN ESTIMATION OF PRODUCTIVITY MEASURES

Atakelty Hailu

Presenter: HAILU

MEASURING ECONOMIES OF DIVERSIFICATION AND VERTICAL INTEGRATION IN THE US POWER INDUSTRY

Pablo Arocena, Tim Coelli, David Saal

Presenter: COELLI

PARAMETRIC MULTIPLICATIVE DIRECTIONAL DISTANCE FUNCTIONS: PROPERTIES, DUALITY AND AN ECONOMETRIC APPLICATION TO A PANEL DATA OF POLLUTING COUNTRY

Antonio Peyrache

Presenter: PEYRACHE

EXAMINING THE DRIVERS OF TOTAL FACTOR PRODUCTIVITY CHANGE: AN APPLICATION TO THE OECD COUNTRIES

Mikulas Luptacik, Bernhard Mahlberg, Biresh K. Sahoo

Presenter: LUPTACIK

EDUCATION & UNIVERSITIES II**ROOM: F2**

CHAIRS: MARIA PORTELA, WILLIAM WEBER

EVOLUTION OF PERFORMANCE AND VALUE-ADDED OF PORTUGUESE SCHOOLS

Maria Portela, Ana Camanho, Abolfazl Keshvari

Presenter: PORTELA**IMPLICATIONS OF ETEMS POLICY FOR THE PERFORMANCE OF MALAYSIAN SECONDARY SCHOOLS IN MATHEMATICS AND SCIENCE SUBJECTS**

Ismail Ihsan, Victor Podinovski, Estelle Shale

Presenter: IHSAN**EFFICIENCY AND EQUITY IN EDUCATION: AN INTERNATIONAL PERSPECTIVE**

Claudio Thieme, Víctor Giménez, Diego Prior

Presenter: PRIOR**THE PRODUCTIVITY OF NANOBIO TECHNOLOGY RESEARCH AND EDUCATION IN US UNIVERSITIES**

William Weber, Yin Xia

Presenter: WEBER**HEALTH****ROOM: F1**

CHAIRS: SABINA NUTI, ARUN BHATTACHARYYA

Sponsored by**THE IMPACT OF HEALTH SECTOR REFORM ON THE EFFICIENCY AND PRODUCTIVITY OF PUBLIC AND PRIVATE HOSPITALS IN TURKEY**

Osman Zaim

Presenter: ZAIM**DEVELOPING A COMBINED QUANTITATIVE BENCHMARKING SYSTEM FOR THE MEASUREMENT OF THE PERFORMANCE IN THE HEALTH CARE SECTOR: THE CASE OF THE TUSCANY REGION IN ITALY**

Sabina Nuti, Cinzia Daraio, Chiara Speroni, Milena Vainieri

Presenter: NUTI & DARAI**STOCHASTIC FRONTIER METHODOLOGY FOR IMPROVING PERFORMANCE MEASURES AND TARGETING APPROACH IN PHARMACEUTICAL INDUSTRY**

Arun Bhattacharyya, Julia Brodsky

Presenter: BHATTACHARYYA**MANUFACTURING APPLICATIONS II****ROOM: F5**

CHAIRS: DAVIDE CASTELLANI, GIORGIA GIOVANNETTI

INNOVATION AND EFFICIENCY: STOCHASTIC FRONTIER ANALYSIS OF MANUFACTURING INDUSTRIES IN 14 OECD ECONOMIES

Addisu Abebe Lashitew

Presenter: LASHITEW**INTANGIBLE ASSETS AND EFFICIENCY IN INTERNATIONAL TEXTILE AND CLOTHING INDUSTRY**

Magdalena Kapelko, Diego Prior Jiménez, Josep Rialp Criado

Presenter: KAPELKO**PRODUCTIVITY AND THE INTERNATIONAL FIRM: DISSECTING HETEROGENEITY**

Davide Castellani, Giorgia Giovannetti

Presenter: CASTELLANI & GIOVANNETTI

PUBLIC SERVICES & NON PROFIT**ROOM: F3**

CHAIRS: GIOVANNI CESARONI, PAULO MORAIS

PRODUCTIVITY OF VOLUNTEER LABOUR: DEA-BASED EVIDENCE FROM ITALY

Sergio Destefanis, Ornella Wanda Maietta

Presenter: MAIETTA**A MAXIMIZING PUBLIC VALUES MODEL FOR SUBSIDIZED NON-PROFIT FIRMS: AN APPLICATION TO DUTCH SOCIAL LABOR SERVICES**

Patrick Koot, Jos Blank

Presenter: KOOT**EFFICIENCY AND TECHNICAL CHANGE IN ITALIAN PENITENTIARIES**

Giovanni Cesaroni, Aldo Lamberti

Presenter: CESARONI**EVALUATION OF PERFORMANCE OF EUROPEAN CITIES WITH THE AIM TO PROMOTE QUALITY OF LIFE IMPROVEMENTS**

Paulo Morais, Ana Camanho

Presenter: MORAIS**RETAIL****ROOM: F7**

CHAIRS: ANA CAMANHO, LUIS OREA

BUSINESS MODELS AND PROFIT: THE CASE OF WAL-MART

Humberto Brea, Ramon Casadesus-Masanell, Emili Grifell-Tatjé

Presenter: BREA**PERFORMANCE COMPARISON BETWEEN RETAILING STORES USING A MALMQUIST-TYPE INDEX**

Clara Vaz, Ana Camanho

Presenter: CAMANHO**PERFORMANCE EFFICIENCY OF WAREHOUSE OPERATIONS: A NETWORK DEA ANALYSIS**

Nasim Sabounchi, Kostas Triantis, Andy Johnson

Presenter: JOHNSON**ENTRY EFFICIENCY AND BARRIERS TO ENTRY IN THE SPANISH RETAIL MARKET: A FRONTIER APPROACH**

Luis Orea

Presenter: OREA**10:30 - 11:00 Coffee Break****11:00 - 12:30****FDI****ROOM: F7**

CHAIRS: LUCIA PISCITELLO, R. ROBERT RUSSELL

THE ROLE OF FOREIGN MNES IN INFRASTRUCTURE AND SERVICE SECTORS ON LOCAL FIRM'S PRODUCTIVITY. EVIDENCE FROM ITALY

Marcella Nicolini, Lucia Piscitello

Presenter: NICOLINI**FOREIGN INVESTMENT AND PRODUCTIVITY OF TURKISH COMMERCIAL BANKS: PARAMETRIC VERSUS NONPARAMETRIC ANALYSIS**

Ozlem Olgu Akdeniz

Presenter: OLGU**FOREIGN DIRECT INVESTMENT AND CONVERGENCE: A NONPARAMETRIC PRODUCTION FRONTIER APPROACH**

Waner Gu, Robert Russell

Presenter: GU

HEALTH II**ROOM: F1**

CHAIRS: DIEGO PRIOR, PAUL W. WILSON

Sponsored by

**EVALUATION OF THE CONGESTION PHENOMENON**

Rui Marques, Pedro Simões

Presenter: SIMOES**GOVERNANCE AND COST EFFICIENCY IN DUTCH HOSPITALS: A TWO STAGE DEA APPROACH WITH BOOTSTRAPPING**

Jos Blank, Bart Van Hulst

Presenter: VAL HULST**EVALUATING ITALIAN PUBLIC HOSPITAL PRODUCTIVITY CHANGE: A ROBUST NON-PARAMETRIC APPROACH**

Paul W. Wilson, Simone Gitto, Paolo Mancuso

Presenter: GITTO**THE IMPACTS OF HOSPITAL SYSTEM MEMBERSHIP, SYSTEM SIZE, AND REPEALING CERTIFICATE OF NEED REGULATION, ON THE COST, ALLOCATIVE, AND TECHNICAL EFFICIENCY OF NON-PROFIT HOSPITALS**

Gerald Granderson, Diego Prior

Presenter: GRANDERSON**INFORMATION TECHNOLOGY****ROOM: F2**

CHAIRS: JÖRG OHNEMUS, BATTISTA SEVERGNINI

JACK IN THE BOX. A LATENT DISTRIBUTION APPROACH FOR IDENTIFYING ICT PRODUCTIVITY SPILLOVER

Battista Severgnini

Presenter: SEVERGNINI**OWNERSHIP AND PERFORMANCE: AN EVIDENCE IN ITALIAN NEW TECHNOLOGY-BASED FIRMS**

Samuele Murtinu, Annalisa Croce, Massimo G. Colombo

Presenter: CROCE**PRODUCTIVITY EFFECTS OF BUSINESS PROCESS OUTSOURCING (BPO): A FIRM-LEVEL INVESTIGATION USING PANEL DATA**

Jörg Ohnemus

Presenter: OHNEMUS**MILK PRODUCTION****ROOM: F9**

CHAIRS: ANTONIO ALVAREZ, EMILI GRIFELL-TATJÉ

GENETIC ATTRIBUTES AND TECHNICAL EFFICIENCY IN ICELANDIC DAIRY FARMING

Dadi Kristofersson, Sveinn Agnarsson

Presenter: AGNARSSON**BEHAVIORAL EVALUATION FOR SOCIAL ASSISTANCE: THE CASE OF THE MEXICAN MILK PROGRAM**

Hugo Fuentes, Emili Grifell-Tatjé, Pilar Marquès-Gou

Presenter: GRIFELL-TATJE'**THE IMPACT OF GENETICS IN MILK COMPOSITION**

Antonio Alvarez, David Roibas

Presenter: ALVAREZ

MUNICIPALITIES**ROOM: F6**

CHAIRS: LÉOPOLD SIMAR, KONSTANTINOS TRIANTIS

OUTPUT COMPLEXITY AND THE EFFICIENCY OF MUNICIPALITIES

Maria Teresa Balaguer-Coll, Diego Prior, Emili Tortosa-Ausina

Presenter: TORTOSA**THE MALMQUIST PRODUCTIVITY INDEX AND ITS DECOMPOSITIONS FOR A DEA MODEL WITHOUT INPUTS**

Giannis Karagiannis, Suzana, M. Palaiologou, Kyriakos Petakos

Presenter: KARAGIANNIS**THE IMPACT OF ENVIRONMENTAL VARIABLES ON THE PERFORMANCE OF GREEK MUNICIPALITIES: A COMPARATIVE EVALUATION BASED ON CONDITIONAL EFFICIENCY MEASURES AND MULTIVARIATE METHODS**

Cinzia Daraio, William Seaver, Leopold Simar, Konstantinos Triantis

Presenter: TRIANTIS & DARAIO**REGULATION****ROOM: F3**

CHAIRS: PER AGRELL, AOIFE BROPHY HANEY

AN INTERNATIONAL EFFICIENCY COMPARISON OF EUROPEAN RAIL INFRASTRUCTURE MANAGERS: AN ANALYSIS UTILISING SUB-COMPANY DATA

Andrew Smith, Phill Wheat

Presenter: SMITH**INDEXES OF PROFITABILITY, PRODUCTIVITY AND PRICE PERFORMANCE ACROSS MULTIPLE FIRMS AND TIME AND THEIR APPLICATION TO COMPARATIVE PERFORMANCE AND REGULATION**

Alexandros Maziotis, David Saal, Emmanuel Thanassoulis

Presenter: SAAL**DOUBLE UP OR THE ROBUSTNESS IMPLEMENTATION FOR FRONTIER YARDSTICK REGIMES IN GERMANY**

Per Agrell, Peter Bogetoft

Presenter: AGRELL**EFFICIENCY ANALYSIS OF ENERGY NETWORKS: AN INTERNATIONAL SURVEY OF REGULATORS**

Aoife Brophy Haney, Michael G. Pollitt

Presenter: HANEY**INNOVATIVE DEA APPLICATIONS II****ROOM: F8**

CHAIRS: TIMO KUOSMANEN, SVERRE AC KITTELSEN

THE CHOICE OF THE EFFICIENCY MEASUREMENT METHOD FROM A FIRM MARKET EXIT PERSPECTIVE

Maks Tajnikar, Ksenja Pušnik

Presenter: TAJNIKAR**NONPARAMETRIC EFFICIENCY ESTIMATION IN THE PRESENCE OF CONTEXTUAL VARIABLES**

Andrew Johnson, Timo Kuosmanen

Presenter: JOHNSON**STOCHASTIC DEA: MYTHS AND MISCONCEPTIONS**

Timo Kuosmanen, Andrew Johnson, Mika Kortelainen

Presenter: KUOSMANEN**ENDOGENOUS MODEL SELECTION USING BOOTSTRAPPED STEPWISE DEA**

Dag Fjeld Edvardsen, Finn R Forsund, Sverre Ac Kittelsen

Presenter: EDVARDSEN**12:30 - 14:00 Lunch**

PLENARY SESSION II:

FRONTIER OF FRONTIERS APPLICATIONS TO GROWTH

JUNE 25, 2009 14:00 - 15:30

ROOM: F9

Chair: Robert Chambers, University of Maryland, College Park, MD - USA

Economic Growth and Convergence: The Production-Frontier Approach

Keynote Speaker: R. Robert Russell, University of California, Riverside, CA - USA

Discussant: Giovanni Dosi, Sant'Anna School of Advanced Studies, Pisa, Italy

15:30 - 16:00 Coffee Break

16:00 - 18:00

COST ON STRIKE I

ROOM: F7

SCIENTIFIC PROGRAM COMMITTEE: MICHELE CINCERA, CINZIA DARAIO AND JACQUES MAIRESSE

CHAIRS: MICHELE CINCERA, JACQUES MAIRESSE

HARNESSING TALENT: THE ROLE OF CHINESE AND INDIAN JUNIOR SCHOLARS IN US SCIENTIFIC PRODUCTIVITY

Patrick Gaulé, Mario Piacentini

DO FINANCIAL INCENTIVES INDUCE SWISS PUBLIC RESEARCH INSTITUTIONS TO BEHAVE EFFICIENTLY?

Thomas Bolli, Frank Somogyi

THE IMPACT OF INTERNAL AND EXTERNAL BASIC SCIENCE ON RESEARCH PRODUCTIVITY IN THE PHARMACEUTICAL INDUSTRY

Bart Leten, Stijn Kelchtermans, René Belderbos

EFFICIENCY IN SCIENTIFIC RESEARCH: THE IMPACT OF FIELD AND PUBLICATION CATEGORIES

Tarmo Raty

BANKING PRODUCTIVITY

ROOM: F8

CHAIRS: CHENG-PING CHENG, ANATOLY PERESETSKY

PRODUCTIVITY OF BANKS IN VIETNAM: A NEW PARAMETRIC ANALYSIS

Ha Thu Vu, Daehoon Nahm

Presenter: VU

THE IMPACT OF CORPORATE GOVERNANCE ON TAIWAN'S BANKING

Cheng-Ping Cheng, Bih-Shiow Chen, Tze-Yi Lai

Presenter: CHENG-PING CHENG

BENCHMARKING, COMPETITION AND TOTAL FACTOR PRODUCTIVITY

Mircea Epure, Kristiaan Kerstens, Diego Prior

Presenter: EPURE

BANKS' COST EFFICIENCY. KAZAKHSTAN AND RUSSIA

Anatoly Peresetsky

Presenter: PERESETSKY

DYNAMIC EFFICIENCY**ROOM: F9**

CHAIRS: DOLORES AÑON HIGON, FINN FORSUND

MEASURING PRODUCTIVITY GROWTH IN THE PRESENCE OF STRUCTURAL CHANGE

Garth Holloway, Philip Jones, David Hadley, Euan Fleming

Presenter: FLEMING**TFP AND TRADE IN FINAL GOODS: THE IMPLICATIONS FOR AN INDEX OF INNOVATION**

Dolores Añon Higon, Paul Stoneman

Presenter: AÑON HIGON**EVALUATING THE PRODUCTIVE EFFICIENCY OF HIGHWAY MAINTENANCE OPERATIONS: ENVIRONMENTAL AND DYNAMIC CONSIDERATIONS**

Saeideh Fallah-Fini, Konstantinos Triantis

Presenter: FALLAH-FINI**DYNAMIC ANALYSIS OF STRUCTURAL CHANGE**

Finn Forsund, Lennart Hjalmarsson

Presenter: FORSUND**EDUCATION & UNIVERSITIES III****ROOM: F2**

CHAIRS: SERGIO PERELMAN, JOSE MANUEL CORDERO FERRERA

EVALUATIONS OF TEACHING PERFORMANCE: A ROBUST BOD APPROACH

Nicky Rogge

Presenter: ROGGE**THE EFFECT OF INNOVATIONS ON SECONDARY SCHOOL PERFORMANCE**

Carla Haelermans, Jos Blank

Presenter: HAELERMANS**BLAMING THE EXOGENOUS ENVIRONMENT? CONDITIONAL EFFICIENCY ESTIMATION WITH CONTINUOUS AND DISCRETE ENVIRONMENTAL VARIABLES**

Kristof De Witte, Mika Kortelainen

Presenter: KORTELAINEEN**DID TRAINING PROGRAMS RUN WELL? IMPACTS OF TRAINING TO TECHNICAL EFFICIENCY OF FOOD PROCESSING SMALL- AND MEDIUM-SIZED ENTERPRISES**

Chuc Nguyen Dinh

Presenter: NGUYEN DINH**MEASURING EFFICIENCY WITH PARAMETRIC DISTANCE FUNCTIONS: REGIONAL ANALYSIS OF SPANISH RESULTS IN PISA 2006**

Jose Manuel Cordero Ferrera, Eva Crespo Cebada, Francisco Pedraja Chaparro, Daniel Santin Gonzalez

Presenter: CORDERO FERRERA**HEALTH III****ROOM: F1**

CHAIRS: SHELTON S. SCHMIDT, SUTHATHIP YAISAWARNG

Sponsored by**CAPACITY UTILIZATION AND EFFICIENCY OF GREEK PUBLIC HOSPITALS**

Roxani Karagiannis

Presenter: KARAGIANNIS**FACTORS DETERMINING THE RESPONSE OF HOSPITALS TO DEMAND UNCERTAINTY**

Ana Rodríguez, David Roibás, Alan Wall

Presenter: WALL**MEASURING THE PERFORMANCE OF NHS HOSPITALS: A STOCHASTIC DISTANCE FUNCTION APPROACH**

Dev Vencappa, Paul Fenn

Presenter: VENCAPPA**THE COST EFFICIENCY OF NEW YORK STATE NURSING HOMES**

Harold O. Fried, Shelton S. Schmidt, Suthathip Yaisawarnng

Presenter: YAISAWARNG

COUNTRY PRODUCTIVITY**ROOM: F6**

CHAIRS: MERYEM DUYGUN FETHI, CAMILLA MASTROMARCO

A STATE SPACE APPROACH TO PRODUCTIVITY AND EFFICIENCY MEASUREMENT: THE ITALIAN ECONOMY, 1950-2003

Camilla Mastromarco, Ulrich Woitek

*Presenter: MASTROMARCO***DECOMPOSING MODIFIED LUENBERGER INDICATOR USING DIRECTIONAL SLACKS-BASED MEASURE OF TECHNICAL INEFFICIENCY**

Bernhard Mahlberg, Biresh K. Sahoo

*Presenter: MAHLBERG***AGGREGATE PRODUCTIVITY GROWTH MEASUREMENT: COMPARISONS BETWEEN GROWTH ACCOUNTING AND FRONTIER-BASED MEASURES**

Dimitris Giraleas

*Presenter: GIRALEAS***MEASURING THE PRODUCTIVITY OF NATIONS**

Meryem Duygun Fethi, Anders Isaksson, Robin Sickles

*Presenter: FETHI***STATISTICAL ISSUES****ROOM: F5**

CHAIRS: PETER SCHMIDT, PAUL W. WILSON

USING COPULAS TO MODEL TIME DEPENDENCE IN PANEL STOCHASTIC FRONTIER MODELS

Christine Amsler, Artem Prokhorov, Peter Schmidt

*Presenter: AMSLER***ESTIMATES OF TECHNICAL INEFFICIENCY IN STOCHASTIC FRONTIER MODELS WITH PANEL DATA: GENERALIZED PANEL JACKKNIFE ESTIMATION**

Panutat Satchachai, Peter Schmidt

*Presenter: SCHMIDT***ANALYSING THE BIAS OF CONDITIONAL EFFICIENCY ESTIMATORS: A MONTE CARLO STUDY**

Luiza Badin, Cinzia Daraio, Léopold Simar

*Presenter: BADIN***GOODNESS OF FIT TESTS IN STOCHASTIC FRONTIER MODELS**

Wei-Siang Wang, Christine Amsler, Peter Schmidt

*Presenter: AMSLER***A COMPUTATIONALLY EFFICIENT, CONSISTENT BOOTSTRAP FOR INFERENCE WITH NON-PARAMETRIC DEA ESTIMATORS**

Alois Kneip, Leopold Simar, Paul Wilson

*Presenter: WILSON***TRANSPORTATION****ROOM: F3**

CHAIRS: MASSIMO FILIPPINI, MATTHIAS WALTER

EFFICIENCY AND EFFECTIVENESS IN THE PUBLIC TRANSPORT SECTOR: A CRITICAL REVIEW WITH DIRECTIONS FOR FUTURE RESEARCH

Cinzia Daraio, Marco Diana

*Presenter: DIANA & DARAI0***EFFICIENCY IN LOCAL PUBLIC TRANSPORT: DOES COST EFFICIENCY IMPLY REVENUE EFFICIENCY?**

Marika Geissler, Matthias Walter

*Presenter: GEISSLER***ECONOMIES OF SCALE AND SCOPE IN URBAN PUBLIC TRANSPORT**

Matthias Walter

*Presenter: WALTER***UNOBSERVED HETEROGENEITY AND INTERNATIONAL BENCHMARKING - AN APPLICATION TO PUBLIC TRANSPORT**

Astrid Cullmann, Mehdi Farsi, Massimo Filippini

*Presenter: CULLMANN***20:30 Free dinner**

June 26, 2009

09:00 - 10:30

COST ON STRIKE II

ROOM: F7

SCIENTIFIC PROGRAM COMMITTEE: MICHELE CINCERA, CINZIA DARAIO AND JACQUES MAIRESSE

CHAIRS: MICHELE CINCERA, JACQUES MAIRESSE

CAREER PROGRESS IN CENTRALIZED ACADEMIC SYSTEMS : AN ANALYSIS OF FRENCH AND ITALIAN PHYSICISTS

Michele Pezzoni, Valerio Sterzi, Francesco Lissoni

UNDERSTANDING INEQUALITY IN SCIENTIFIC PRODUCTIVITY: EMPIRICAL EVIDENCE FROM INDIVIDUAL RESEARCHERS IN SEVEN EUROPEAN COUNTRIES

Najib Harabi

MEASURING THE EFFICIENCY OF PUBLIC SPENDING ON R&D

Michele Cincera, Andrea Conte

AGRICULTURE: SIZE & SCOPE

ROOM: F9

CHAIRS: JEAN-PHILIPPE BOUSSEMARY, VANGELIS TZOUVELEKAS

ANALYZING TOTAL FACTOR PRODUCTIVITY IN EXTENSION SERVICES PROVISION

Spiro Stefanou, Vangelis Tzouvelekas

Presenter: TZOUVELEKAS

A JOINT ANALYSIS OF TECHNICAL INEFFICIENCY AND PRODUCTION RISK OF CASSAVA FARMS IN SOUTHWEST NIGERIA

Kolawole Ogundari, Bernhard Brummer

Presenter: OGUNDARI

ENERGY IN THE U.S. AGRICULTURAL SECTOR

Eldon Ball, Rolf Färe, Shawna Grosskopf, Dimitri Margaritis

Presenter: BALL

MEASURING POTENTIAL GAINS OF SPECIALIZATION UNDER NON-CONVEX TECHNOLOGIES

Stéphane Blancard, Jean-Philippe Boussemart, Hervé Leleu

Presenter: BOUSSEMARY

BANK HETEROGENEITY

ROOM: F8

CHAIRS: JOSEPH PARADI, JELENA ZORIC

COMPETITION AND INNOVATION: SCALE ECONOMIES AND HETEROGENEOUS RESPONSES

Jaap Bos, Claire Economidou, Ryan Van Lamoen

Presenter: VAN LAMOEN

IDENTIFYING MANAGEMENT GROUPS IN A LARGE CANADIAN BANK BRANCH NETWORK WITH DEA APPROACH

Joseph Paradi, Haiyan Zhu, Barak Edelstein

Presenter: PARADI

ACCOUNTING FOR HETEROGENEITY IN BANKING EFFICIENCY OF THE NEW EU MEMBER STATES

Jelena Zoric, Marko Kosak

Presenter: ZORIC

MANUFACTURING APPLICATIONS III**ROOM: F5**

CHAIRS: JAAP BOS, MEI-YING HUANG

PRODUCTIVITY DIFFERENCES IN THE SPANISH'S MANUFACTURING FIRMS: EFFECTS OF R&D AND FIRM CHARACTERISTICSM^a Jesús Delgado-Rodríguez, Desiderio Romero-Jordan, Inmaculada Alvarez-Ayuso*Presenter:* DELGADO**PRODUCTIVITY, EFFICIENCY AND TECHNOLOGICAL CHANGE IN THE EUROPEAN PRODUCTIVE SECTORS: EVIDENCE FROM THE MALMQUIST INDEX**María Jesus Delgado-Rodríguez, Inmaculada Alvarez-Ayuso, M^a Del Mar Salinas-Jimenez*Presenter:* DELGADO**PRODUCTIVITY EVALUATION OF TAIWANESE SEMI-CONDUCTOR COMPANIES USING A THREE-STAGE MALMQUIST DEA APPROACH**

Mei-Ying Huang

Presenter: HUANG**FIRM PRODUCTIVITY AND EXPORT MARKETS: A STOCHASTIC FRONTIER APPROACH**

Jaap Bos, Claire Economidou, Mark Sanders

Presenter: BOS**NETWORK TRANSPORTATION****ROOM: F3**

CHAIRS: ANDREW SMITH, HEIKE WETZEL

PRODUCTIVITY GROWTH IN EUROPEAN RAILWAYS: TECHNOLOGICAL PROGRESS, EFFICIENCY CHANGE AND SCALE EFFECTS

Heike Wetzel

Presenter: WETZEL**TRANSPORTATION NETWORK PERFORMANCE MEASUREMENT-THE IMPACT OF A DOWNTOWN SPACE RESERVATION SYSTEM: A NETWORK-DEA APPROACH**

Yueqin Zhao, Konstantinos Triantis

Presenter: ZHAO**THE APPLICATION OF TIME VARYING EFFICIENCY MODELS TO THE STUDY OF PASSENGER RAIL FRANCHISING IN BRITAIN (1996-2006)**

Andrew Smith, Phill Wheat

Presenter: WHEAT**R & D****ROOM: F6**

CHAIRS: ANDREA CONTE, PETRA ZLOCZYSTI

EFFICIENCY AND EFFECTIVENESS OF PUBLIC R&D SPENDING AND THE INSTITUTIONAL FRAMEWORK

Andrea Conte, Adriaan Dierx, Fabienne Ilzkovitz, Philip Schweizer

Presenter: CONTE**PUBLIC R&D AND AGRICULTURAL PRODUCTIVITY GROWTH IN THE U.S.**

Ling Sun Wang, Eldon Ball, Lilyan Fulginiti, Alejandro Plastina

Presenter: WANG**WHAT DRIVES R&D EFFICIENCY IN THE OECD? A TWO STAGE SEMI-PARAMETRIC APPROACH**

Astrid Cullmann, Jens Schmidt-Ehmcke, Petra Zloczynski

Presenter: ZLOCZYSTI**SCALE EFFICIENCY****ROOM: F1**

CHAIRS: FINN FØRSUND, VICTOR PODINOVSKI

BOUNDED LINEAR EFFICIENCY MODELS

Mette Asmild, Jesus Pastor

Presenter: ASMILD**SOME ADDITIONAL THEOREMS ON RETURNS TO SCALE IN DEA MODELS**

Vladimir Krivonozhko, Finn Forsund

Presenter: FORSUND**A UNIFYING APPROACH TO THE DERIVATION OF SCALE ELASTICITY IN POLYHEDRAL PRODUCTION TECHNOLOGIES**

Victor Podinovski, Finn Førsund, Vladimir Krivonozhko

Presenter: PODINOVSKI

WATER PROVISION**ROOM: F2**

CHAIRS: FABRIZIO ERBETTA, FRANCESCO VIDOLI

COST INEFFICIENCY OR JUST HETEROGENEITY? AN APPLICATION OF STOCHASTIC FRONTIER MODELS TO THE ITALIAN WATER INDUSTRY

Graziano Abrate, Fabrizio Erbetta, Giovanni Fraquelli

Presenter: ERBETTA**DOES MANAGERIAL OWNERSHIP MATTER IN IMPROVING PERFORMANCE IN URBAN WATER SUPPLY? APPLICATION TO UGANDA**

Dorcas Mbuvi, Achraf Tarsim

Presenter: MBUVI**IS A LITTLE SUNSHINE ALL WE NEED? ON THE IMPACT OF SUNSHINE REGULATION ON PROFITS, PRODUCTIVITY AND PRICES IN THE DUTCH DRINKING WATER SECTOR**

Kristof De Witte, David Saal

Presenter: DE WITTE**EVALUATING THE WATER SECTOR IN ITALY THROUGH A TWO STAGE METHOD USING THE ROBUST NONPARAMETRIC FRONTIER AND MULTIVARIATE ADAPTIVE REGRESSION SPLINES**

Francesco Vidoli

Presenter: VIDOLI**10:30 - 11:00** Coffee Break**11:00 - 12:30****SESSION III:****THE ECONOMICS AND PRODUCTIVITY OF SCIENCE AND HIGHER EDUCATION**

JUNE 26, 2009 11:00 - 12:30

ROOM: F9*Chair:* Andrea Bonaccorsi, University of Pisa, Italy**Productivity in Science and Technology***Keynote Speaker:* Jacques Mairesse, CREST (France) and Maastricht University (Netherlands)*Discussant :* Paula Stephan, Andrew Young School of Policy studies, Atlanta, GA - USA*Comments by* Maurizio Sobrero, IRIS Project Coordinator, University of Bologna, Italy**12:30 - 14:00** Lunch**14:00 - 16:00****BANK & SIZE****ROOM: F8**

CHAIRS: GARY D. FERRIER, KARLIGASH KENJEGALIEVA

DOES DISTANCE BETWEEN TARGET AND ACQUIRER MATTER FOR BANK MERGERS?

Gary D. Ferrier, Timothy J. Yeager

Presenter: FERRIER**EFFICIENCY EFFECTS OF BANK MERGERS: THE US MERGER WAVES FROM 1984 TO 2004**

Jaap Bos, Jared Fotis, Michael Koetter

Presenter: FOTIS**RETURNS TO SCALE AND ECONOMIES OF SCOPE IN LUXEMBOURG'S BANKING INDUSTRY**

Paolo Guarda, Michael Vardanyan

Presenter: VARDANYAN**AN ANALYSIS OF POTENTIAL GAINS OF BANK MERGERS IN INDONESIA**

Maximilian J. B. Hall, Karligash Kenjegalieva, Richard Simper

Presenter: KENJEGALIEVA

DEA ADVANCES**ROOM: F5**

CHAIRS: NIELS CHRISTIAN PETERSEN, VALENTIN ZELENYUK

CATEGORICAL VARIABLES IN NON-PARAMETRIC STOCHASTIC FRONTIER ESTIMATION

Valentin Zelenyuk

*Presenter: ZELENYUK***STREAMING DEA COMPUTATIONS**

Jose Dula, Francisco Lopez

*Presenter: DULA***SECURE, SIMPLE AND EFFICIENT MULTI-ATTRIBUTE PROCUREMENT**

Peter Bogetoft, Kurt Nielsen

*Presenter: NIELSEN***INCORPORATION OF PROFIT RATIOS IN DATA ENVELOPMENT ANALYSIS - METHODOLOGY AND EMPIRICAL EVIDENCE**

Niels Christian Petersen, Ole Bent Olesen

*Presenter: PETERSEN***EXTERNAL FACTORS****ROOM: F7**

CHAIRS: GILBERTO TURATI, ANGELO ZAGO

A MIXED MODEL APPROACH TO THE ESTIMATION OF STOCHASTIC PRODUCTION FRONTIERS

Renato Salvatore, Alessandro Viviani

*Presenter: SALVATORE***ON THE ROBUSTNESS OF ESTIMATED EFFICIENCIES: A NONPARAMETRIC ANALYSIS OF DETERMINISTIC AND STOCHASTIC FRONTIER BASED ESTIMATES**

David Conesa, Emili Tortosa-Ausina

*Presenter: TORTOSA***THE ROLE OF BAIL OUT EXPECTATIONS IN INFLUENCING THE EFFICIENCY OF PUBLIC HEALTH EXPENDITURE**

Massimiliano Piacenza, Gilberto Turati

*Presenter: PIACENZA & TURATI***MAXIMUM LIKELIHOOD ESTIMATION OF CENSORED STOCHASTIC FRONTIER MODELS: AN APPLICATION TO THE THREE-STAGE DEA METHOD**

Wen-Jen Tsay, Cliff Huang, Tsu-Tan Fu, I-Lin Ho

*Presenter: HUANG***ENVIRONMENTAL INFLUENCES IN PRODUCTIVITY MEASUREMENT**

Camilla Mastromarco, Angelo Zago

*Presenter: ZAGO & MASTROMARCO***HUMAN CAPITAL****ROOM: F3**

CHAIRS: ORNELLA WANDA MAIETTA, VANIA SENA

HUMAN CAPITAL AND FIRMS' DYNAMICS: SOME EVIDENCE FOR BRITAIN AND ITALY

Camilla Mastromarco, Vania Sena

*Presenter: SENA***IS PRODUCTIVITY GROWTH HUMAN CAPITAL-LED IN AGRICULTURE? EVIDENCE FROM EUROPEAN REGIONS**

Ornella Wanda Maietta, Biagia De Devitiis, Teresa Panico

Presenter: MAIETTA

INNOVATIVE INDICATORS**ROOM: F1**

CHAIRS: HAROLD FRIED, LOREN TAUER

FDH EFFICIENCY ASSESSMENT USING IDEAL AND ANTI-IDEAL DECISION MAKING UNITS

Shinn Sun

Presenter: SUN**ALIGNING SALARY REVIEWS TO PRODUCTIVITY INDICATORS: THE CASE OF MAURITIUS**

Dinesh Kumar Hurreeram

Presenter: HURREERAM**MEASURING THE PERFORMANCE OF REGIONAL HEALTH CARE: EVIDENCE FROM A DECENTRALIZED NHS SYSTEM**

Marina Cavalieri, Calogero Guccio

Presenter: GUCCIO**UNDERSTANDING THE ENTREPRENEUR: AN INDEX OF ENTREPRENEURIAL SUCCESS**

Harold Fried, Loren Tauer

Presenter: FRIED & TAUER**PRODUCTIVITY & R&D****ROOM: F6**

CHAIRS: JONG-RONG CHEN, SUBAL KUMBHAKAR

CORPORATE R&D AND THE DISTANCE TO THE FRONTIER: EVIDENCE FROM EUROPE'S TOP-R&D INVESTORS

Subal Kumbhakar, Raquel Ortega-Argilés, Lesley Potters, Marco Vivarelli, Peter Voigt

Presenter: VOIGT**ON THE ROLE OF PROCESS INNOVATIONS ON SMES PRODUCTIVITY**

Juan A. Máñez-Castillejo, María E. Rochina-Barrachina, Amparo Sanchis-Llopis, Juan A. Sanchis-Llopis

Presenter: MÁÑEZ-CASTILLEJO**R&D INEQUALITY AND PRODUCTIVITY GROWTH IN THE OECD MANUFACTURING INDUSTRIES**

Jong-Rong Chen, Yun-Peng Chu, Yi-Pey Ou

Presenter: J-R CHEN**EDUCATION & UNIVERSITIES IV****ROOM: F2**

CHAIRS: TSU-TAN FU, JIRO NEMOTO

SPANISH PUBLIC UNIVERSITIES' CLASSIFICATION. HOW PRODUCTIVE ARE THEY?

Davinia Palomares-Montero, Adela García-Aracil

Presenter: PALOMARES-MONTERO**SPANISH PUBLIC UNIVERSITIES: COMPLEMENTARITIES AMONG THEIR MISSIONS**

Emilia Lopez-Inesta, Adela Garcia-Aracil

Presenter: LOPEZ-INESTA**AN EFFICIENCY MEASUREMENT OF BUSINESS COLLEGE IN TAIWANESE UNIVERSITIES USING STUDENT-BASED PERFORMANCE INDICATORS AND TWO-STAGE DEA MODELS**

Tsu-Tan Fu, Wen-Hsin Kong, Yung-Lieh Yang

Presenter: T-T FU**THE EFFECT OF MONETARY INCENTIVES ON FACULTY RESEARCH PRODUCTIVITY**

Flora Tien

Presenter: TIEN**COST STRUCTURE AND EFFICIENCY OF JAPANESE PRIVATE UNIVERSITIES REVISITED**

Jiro Nemoto, Noriko Furumatsu

Presenter: NEMOTO

AGRICULTURE & ENVIRONMENT

ROOM: F9

CHAIRS: WILLIAM GREENE, YILMAZ KILICASLAN

EFFICIENCY ANALYSIS OF FOREST ENTERPRISES: EVIDENCE FROM TURKEY

Yilmaz Kilicaslan, Sebnem Tosunoglu, Mehmet Basar

Presenter: KILICASLAN

ATTRIBUTING THE HEALTH EFFECTS OF PESTICIDES USE TO TFP CHANGES

Kostas Chatzimichael, Giannis Karagiannis, Vangelis Tzouvelekas

Presenter: CHATZIMICHAEL

HSN1 MEASURES AND COST EFFICIENCY OF BROILER FARMS IN THAILAND

Wirat Krasachat

Presenter: KRASACHAT

SELECTIVITY CORRECTED STOCHASTIC PRODUCTION FRONTIER ESTIMATES: PRELIMINARY RESULTS FOR HILLSIDE FARMERS IN HONDURAS

Boris E. Bravo-Ureta, William Greene, Daniel Solis

Presenter: BRAVO-URETA & GREENE

16:00 - 16:30 Coffee Break

16:30 - 17:00 Closing Remarks

Andrea Bonaccorsi, Department of Electrical System and Automation, University of Pisa

Robin Sickels, Rice University, Houston, TX - USA

18:15 Meeting point for buses in front of the Conference site

20:00 Conference Gala Dinner

SPECIAL THANK FOR THEIR SUPPORT TO:



UNDER THE PATRONAGE OF:



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