June 26-29
2017

Czech Republic
University of Economics
Prague

15th International Conference on Data Envelopment Analysis

deaconference.com/dea2017
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Welcome

Dear conference participants,

it is a great pleasure for me to welcome you on behalf of the Organising Committee, University of Economics, Prague, and the Czech Society of Operational Research to the 15th International Conference on Data Envelopment Analysis. This year the DEA conference takes place at the University of Economics in Prague, which is the largest school of economics and business in the Czech Republic, consisting of six faculties, and serving more than fifteen thousand students.

The high number of conference participants (almost 250) from more than 50 countries over the world shows that data envelopment analysis is an attractive scientific discipline with many new theoretical developments and practical applications. I believe that you find interesting the conference programme, including tutorials, plenary talks, invited and contributed parallel sessions as well as social events and tours. I hope that the conference can be the opportunity to meet colleagues, friends and establish new contacts for future research for all participants. Enjoy your time in the beautiful historical city of Prague.

I would like to express my personal thanks to all members of the Scientific and Organising Committees for their work in preparation of the conference programme.

Josef Jablonský
Chair of the Organizing Committee
Conference Organization

Scientific Committee

Afsharian, Mohsen (Germany)
Alp, Ihsan (Turkey)
Amin, Gholam Reza (Canada)
Amirteimoori, Alireza (Iran)
An, Qingxian (China)
Anouz, Abdel Latef (Qatar)
Aparicio, Juan (Spain)
Ara, Shamin (Bangladesh)
Arabi, Behrouz (Portugal)
Avkiran, Necmi (Australia)
Bal, Hasan (Turkey)
Banker, Rajiv (USA)
Branda, Martin (Czech Republic)
Brožová, Helena (Czech Republic)
Camanho, Ana (Portugal)
Cengiz, Mehmet Ali (Turkey)
Chen, Lei (China)
Chung, William (Hong Kong)
Dash Wu, Desheng (Canada)
Davutyan, Nurhan (Turkey)
De Witte, Kristof (Belgium)
Despotis, Dimitris (Greece)
Dlouhý, Martin (Czech Republic)
Emrouznejad, Ali (UK)
Eslami, Robabeh (Iran)
Fábry, Jan (Czech Republic)
Farzipoor Saen, Reza (Iran)
Fores, Sarah (Belgium)
Forsund, Finn (Norway)
Fukuyama, Hiroyoshi (Japan)
Gattoufi, Said (Tunisia)
Grosskopf, Shawna (USA)
Hančlová, Jana (Czech Republic)
Hatami-marbini, Adel (UK)
Hollingsworth, Bruce (Australia)
Hsihui, Chang (USA)
Huang, Shu-Chin (Taiwan)
Ignatius, Joshua (Malaysia)
Ishizaka, Alessio (UK)
Jablonský, Josef (Czech Republic)
Johnson, Andy (USA)
Karagiannis, Giannis (Greece)
Kao, Chiang (Taiwan)
Kazemi-matin, Reza (Iran)
Kerstens, Kristiaan (France)
Khodabakhshi, Mohammad (Iran)
Khoveyni, Mohammad (Iran)
Kleine, Andreas (Germany)
Krasachat, Wirat (Thailand)
Krivonozhko, Vladimir (Russia)
Kweh, Quian Long (Malaysia)
Lee, Chun-Yi (Taiwan)
Li, Yongjun (China)
Liang, Liang (China)
Lim, Sungmook (South Korea)
Liu, Shiang Tai (Taiwan)
Lu, Louis Yu-Yang (Taiwan)
Manos, Basil (Greece)
Marques, Rui Cunha (Portugal)
Moreno, Placido (Spain)
Morita, Hiroshi (Japan)
Neralic, Luka (Croatia)
Olesen, Ole (Denmark)
Ouenniche, Jamal (United Kingdom)
Pastor, Jesus (Spain)
Podinovski, Victor (UK)
Portela, Maria (Portugal)
Ray, Subhash (USA)
Rolf, Fare (USA)
Rostamy-Malkhalifeh, Mohsen (Iran)
Ruggeiro, John (USA)
S. Liu, John (Taiwan)
Sahoo, Biresh (India)
Sherman, David (USA)
Tichý, Tomáš (Czech Republic)

Toloo, Mehdi (Czech Republic)
Tone, Kaoru (Japan)
Triantis, Kostas (USA)
Vargas, Francisco (Mexico)
Vincent, Charles (Peru)
Wang, Ke (China)
Wang, Ying-Ming (China)
Wanke, Peter (Brazil)
Wu, Jie (China)
Xie, Bai-Chen (China)
Yang, Guoliang (China)
Yesilyurt, M. Ensar (Turkey)
Yu, Ming-Miin (Taiwan)
Zervopoulos, Panagiotis (Turkey)
Zhu, Nan (China)
Zimková, Emília (Slovakia)
Organizing Committee

Josef Jablonský, University of Economics, Prague CZ (chair)
Mehdi Toloo, Technical University of Ostrava, CZ (co-chair)
Rajiv Banker, Temple University, USA (IDEAs’ president)
Ali Emrouznejad, Aston University, UK (program chair)
Martin Dlouhý, University of Economics, Prague, CZ
Jan Fábry, University of Economics, Prague, CZ
Lukáš Frýd, University of Economics, Prague, CZ
Jana Hančlová, Technical University of Ostrava, CZ
Miroslav Holý, University of Economics, Prague, CZ
Michal Pieter, University of Economics, Prague, CZ
Tomáš Tichý, Technical University of Ostrava, CZ
Petra Tomanová, University of Economics, Prague, CZ
The 15th International Conference on DEA is hosted by:

The University of Economics, Prague
Faculty of Economics, VŠB - Technical University of Ostrava
International Data Envelopment Analysis Society (iDEAs)
The Czech Society of Operational Research
General Information

Conference Venue

The conference will be held at the University of Economics, Prague, 4 Winston Churchill Square, Prague 3. Use tram 5, 9, 15 or 26, or bus 135. The nearest METRO stations, about 5-10 minutes walk, are “Hlavní nádraží” (line C “red”) and “Masarykovo nádraží” (line B “yellow”).
The main university campus in the city centre consists of four main buildings:

NB = NEW Building (Nová budova)
SB = OLD Building (Stará budova)
RB = RAJSKÁ Building (Rajská budova)
MI = ITALSKA Building (Budova Italská)

**Registration Desk**

The registration desk is located in ITALSKA Building. The opening hours of the registration desk are:

**Monday, June 26**  08:00 – 18:00
**Tuesday, June 27**  08:00 – 18:00
**Wednesday, June 28**  08:00 – 12:00
Registration Fee, Badges

The registration fee includes admittance to all sessions, conference materials, welcome party, half-day tour, gala dinner, lunches and coffee breaks. The registration fee for accompanying persons includes the same except admittance to all sessions and conference materials.

All participants will receive a personal badge upon registration. You are kindly requested to wear your name badge when attending the meeting or social events. Only participants who are wearing their name badge will be admitted to the sessions and social events.

Internet Access

During the conference you will be provided with access to Internet. You will obtain your username and password at the registration desk.

Language

The official conference language is English. No simultaneous translation will be provided.

Welcome Party, Lunches, Coffee Breaks, Smoking

Free Welcome Party will take place in the Academic Club on the 3rd floor of the ITALSKÁ Building.

Lunches will be served in the Academic Club in ITALSKÁ building. Tickets are requested for lunch.

Coffee breaks will be organized in several places in ITALSKÁ building

Smoking is prohibited at the University of Economics Prague. Smoking outside the buildings is allowed.
Climate, Time Zone, Electricity Network

Prague is a city with four distinct seasons and a fairly continental climate. Summers are hot, winters are cold. The normal summer temperature varies between 23°C (73°F) and 29°C (84°F).

The Czech Republic is on the Central European Time, i.e. Greenwich Mean Time (GMT) plus 1 hour. From April to October is summer time, i.e. GMT + 2 hours.

The Czech Republic uses a 220 volt 50 Hz system, sockets have the European standard and plugs are three-prong grounded. To use electric appliances from your country you may need a special voltage converter with an adapter plug.

Currency, Credit Cards, Tipping

The currency unit in the Czech Republic is the Czech Koruna (Kč, CZK). Major credit cards are accepted for payments in most hotels, restaurants and shops. ATM machines and exchange offices are easily available. Two ATM machines are available at the University campus (one ATM is located in ITALSKÁ building, one ATM is located outside the OLD building at the main entrance).

Tipping is regular practice and 5-10% is the usual rate, depending on service and satisfaction.

Tours

Tours have been arranged exclusively for the DEA Conference delegates and their accompanying persons. The tours will start from the University of Economics (in front of the entrance to the OLD Building) and they will be accompanied by an English speaking guide.
Transportation

Public transportation

Prague has an extensive public transport system that includes bus, tram, and METRO (underground system with three lines: A “green”, B “yellow”, and C “red”). The underground system operates till midnight. After midnight, the system of night trams and night buses is in operation with different numbers and lines than during the day.

To reach the University of Economics (conference venue), please use tram lines 5, 9, 15 or 26 (tram stop HUSINECKA, 250 m from the University, or bus route 135 (bus stop NÁMĚSTÍ W. CHURCHILLA – W. CHURCHILL SQUARE, 30 m from the university).

The connections to nearest METRO stations:

- Hlavní nádraží (line C “red”), 10 minutes by walk, one stop by tram 5, 9, 26.
- Masarykovo nádraží (line B “yellow”), 10 minutes by walk, two stops by tram 5 or 26.
- Florenc (lines C “red” and B “yellow”), one stop by bus 135.
- Náměstí Míru (line A “green”), three stops by bus 135.
- Můstek (lines A “green” and B “yellow”), three stops by tram 9.

Transferable tickets for all lines (tram, bus, metro) valid for 90 minutes cost CZK 32. Tickets for 30 minutes are for CZK 24. A good option for conference participants is a 24- or 72-hour ticket that costs CZK 110 and CZK 310 respectively. More information about public transport in Prague can be found at http://www.dpp.cz/en.

Taxi

Due to the good public transportation network it is not necessary to use taxis at all (except to/from airport). Not all taxis in Prague do accept credit cards! In the city, taxis are easy to hail from the street. Please check the price list or ask the driver about the price before you get into the car. Regular price of taxi is CZK 28 (approx. EUR 1) per 1 km plus fixed rate CZK 40. However it is recommended to call a taxi in advance. Feel free to contact the registration desk staff or your hotel reception for help.
Conference Sponsors

Česká spořitelna, a. s. is the general partner of the University of Economics Prague.

Česká spořitelna, a.s. is a modern bank with a focus on retail clients, small- and medium-sized enterprises, municipalities and cities and plays an important role in financing large corporations and providing financial market services. With almost 5 million clients, it is the Czech Republic’s largest bank. Česká spořitelna boasts the longest tradition among the banks on the Czech market; in 2015 it marked the 190th anniversary of the Company’s founding. The bank provides our clients with the broadest range of banking services in the Czech Republic through a branch network, ATMs and payment terminals.

The University of Economics, Prague (VŠE) is the biggest public economic university in the Czech Republic. VŠE has six faculties offering applicants a broad spectrum of study fields and branches in bachelor’s, master’s and doctoral degree study programs. Five faculties are located in the centre of Prague – the Faculty of Finance and Accounting, the Faculty of International Relations, the Faculty of Business Administration, the Faculty of Informatics and Statistics and the Faculty of Economics. The Faculty of Management is located in the city of Jindřichův Hradec.
The Faculty of Economics of the VŠB - Technical University of Ostrava was founded in 1977 and today it has approximately 5,200 students and is the biggest faculty of the University. The Faculty of Economics offers a wide range of degree programmes – including Bachelor’s, Master’s and doctoral degrees – from the fields of economics, management, economic policy and administration, informatics and systems engineering. The Faculty also organises a number of short-term and long-term courses of lifelong education for companies, institutions and individuals. Graduates of the Faculty of Economics go on to make careers in companies, public administration, banking, and individual business activity.
Social Events

Welcome Party

Venue: Academic Club, 3rd floor of the ITALSKÁ building
Date: Monday, June 26, 2017
Time: 18:30 - 21:00
Admission: free

Half Day Tour

Venue: The City of Kutná Hora
Date: Wednesday, June 28, 2017
Time: 12:30 – 18:00
Admission: free

Kutná Hora was developed as a result of the exploitation of the silver mines. In the 14th century it became a royal city endowed with monuments that symbolized its prosperity. The Church of St Barbara, a jewel of the late Gothic period, and the Cathedral of Our Lady at Sedlec, which was restored in line with the Baroque taste of the early 18th century, were to influence the architecture of central Europe. These masterpieces today form part of a well-preserved medieval urban fabric with some particularly fine private dwellings.
Gala Dinner

Venue: Strahov Monastery
Date: Wednesday, June 28, 2017
Time: 18:30 - 21:00
Admission: free

Founded in 1140 by Prince Vladislav II, the Strahov Monastery is a large impressive building at the back of Petrin Hill and Prague Castle. This elevated area of the city offers visitors a calm oasis, somewhere to stroll around, enjoy views over the Lesser Town (and indeed the whole of Prague), and to visit one of the city’s finest churches. The dinner will be organized in one of the restaurants within the monastery area.

Optional Dinner

Venue: Kredenc Restaurant
(Seifertova 6, Praha 3)
Date: Tuesday, June 27, 2017
Time: 18:30 - 21:00
Admission: 30 EUR
Optional Post-Conference Tour

Venue: Karlovy Vary and the Moser Factory
Date: Friday, June 30, 2017
Time: 8:30 – 18:00
Admission: 75 EUR

The world famous spa town of Karlovy Vary, also known by its German name of Karlsbad (or Carlsbad in English), was founded in 1350 by the Czech King and Holy Roman Emperor Charles IV. The town’s visitors over the years have included Casanova, Ludwig van Beethoven, Wolfgang Amadeus Mozart, Franz Kafka, Alphonse Mucha and many representatives of the world film industry who come to Karlovy Vary as guests of the International Film Festival held every year in July. Karlovy Vary lies in a green valley of the river Teplá (meaning „Warm”) and its setting alone gives it an atmosphere of beauty and peace.

The town has been recapturing its former glory with its Baroque and Art Nouveau buildings being restored and people rediscovering all the town has to offer. History of the Moser glassworks is historically associated with the name of Ludwig Moser (1833 - 1916), one of the most outstanding personalities of glass manufacturing in the world. He first opened his own shop and engraver’s workshop in the center of Karlovy Vary and in the same town in 1893 he starts production in his own glass workshop, which has been operating successfully until today. Within a short time he gained the reputation as the most prestigious producer of crystal in the Austrian-Hungarian monarchy. The titles of the court suppliers of emperor Franz Joseph I (1873), Persian Shah Musaffereddine (1901) and King Edward VII of England (1908) further increased the reputation of the crystal and the interest of other politicians and emperors. Then, in the year 1922, Moser glass manufactory became the biggest producer of luxurious drinking and decorative glass in Czechoslovakia. The success of Ludwig Moser, whose heritage has been developed since then, consists in the production of ecologically friendly lead-free crystal, of a unique color spectrum, specially designed by the most prestigious designers and in excellent hand manufacturing.
Conference Publications

There are several special issues of journals at the occasion of the International Conference on Data Envelopment Analysis, Prague, Czech Republic, June 26-29, 2017.

European Journal of Operational Research

Special issue on Advances in Data Envelopment Analysis celebrating the 40th anniversary of Data Envelopment Analysis and the 100th anniversary of Professor Abraham Charnes’ birthday.

Guest editors:

Ali Emrouznejad, Aston University, UK
Rajiv Banker, Temple University, USA
Luka Neralic, University of Zagreb, Croatia

Manuscript preparation:

Please refer to the Journal Information and Instructions for Authors about manuscript preparation. When submitting the manuscript please select the article type “Advances in DEA”. Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere.

Important dates:

July 31, 2017: Submission deadline (early submission recommended, referee process starts once the paper received)
November 30, 2017: Notification of status & acceptance or invitation for revision of paper
January 31, 2018: Revised manuscripts
March 31, 2018: Final version of manuscripts
July, 2018: Anticipated publication
Central European Journal of Operations Research

Special issue on Performance and Efficiency Evaluation: Recent Developments and Applications.

Guest editors:

Josef Jablonsky, University of Economics, Prague, Czech Republic
Mehdi Toloo, Technical University of Ostrava, Czech Republic
Ali Emrouznejad, Aston University, UK

Manuscript preparation:

Please refer to the Journal Information and Instructions for Authors about manuscript preparation – use online submission system of the journal at www.edmgr.com/cjor. When submitting the manuscript please select the article type “SI: DEA2017”. Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere.

Important dates:

September 30, 2017: Submission deadline (early submission recommended, referee process starts once the paper received)
December 31, 2017: Notification of status & acceptance or invitation for revision of paper
March 31, 2018: Revised manuscripts
May 31, 2018: Final version of manuscripts
December, 2018: Anticipated publication
Iranian Journal of Management Studies

Special issue on Recent Advances in Data Envelopment Analysis.

**Guest editors:**

Mehdi Toloo, Technical University of Ostrava, Czech Republic  
Josef Jablonsky, University of Economics, Prague, Czech Republic  
Adel Hatami-Marbini, De Montfort University, Leicester, UK

**Manuscript preparation:**

All manuscripts submitting in the SI should conform to the standard editorial and publication policies as mentioned in the journal. The authors should submit the manuscript via online system at https://ijms.ut.ac.ir. Please select the article type “SI: Data Envelopment Analysis” when submitting the manuscript.

**Important dates:**

September 30, 2017: Submission deadline (early submission recommended, referee process starts once the paper received)  
December 31, 2017: Notification of status & acceptance or invitation for revision of paper  
March 31, 2018: Revised manuscripts  
May 31, 2018: Final notification of acceptance  
December, 2018: Anticipated publication
The Data Envelopment Analysis Journal

Special issue of DEAJ for the selected papers in DEA2017

Guest editors:
Ali Emrouznejad, Aston University, UK
Rajiv Banker, Temple University, USA
Josef Jablonsky, University of Economics, Prague, Czech Republic

Editor:
Rajiv Banker, Temple University, USA

The details will be announced.

Proceedings of DEA2017

This is a post-conference proceedings and the deadline for full paper submission to appear in the proceedings is July 31, 2017. Please note that papers submitted for this proceedings will be peer-reviewed by at least two reviewers + guest editors. Please guideline and template downloadable at the conference web pages for manuscript preparation.

Important dates:

July 31, 2017: Submission Deadline (early submission recommended, referee process starts once the paper received)
August 31, 2017: Notification of status & Review reports
September 30, 2017: Revised manuscripts
October 31, 2017: Final version of manuscripts
Autumn, 2017: Anticipated publication
Scientific Program

Speaker and Session Chair Information

Each conference room is equipped with PC connected to a projector. The computers contain software for the usual presentation formats (MS PowerPoint, MS Word, PDF) and have the USB connections for memory sticks. You can either use your own notebook or transfer your presentation onto the desktop. Please make sure to arrive at your session at least five minutes before its scheduled beginning.

Please be on time for your session, check in with the session chair, and test the A/V equipment. Presentations should be limited to key issues with a brief summary. Feel free to bring along copies of your paper to distribute or to provide handouts.

The role of the session chair is to ensure the smooth execution of the session. The session chair should:

- contact the speakers before the session and prevent any technical problems.
- begin the session on time.
- keep presentations in the order shown in the program to allow participants to jump between sessions.
- introduce the speakers and the title of each presentation.
- inform the speaker how many minutes are left.
- ensure that the presentations, including questions, do not overstep their time frame.
- ask for questions, manage discussion, and thank the speaker.
Conference Schedule

MONDAY (June 26, 2017)
- 08:00-18:00  Registration
- 08:30-09:45  Tutorial 1
- 09:45-11:00  Tutorial 2
- 11:00-11:30  Coffee break
- 11:30-12:45  Tutorial 3
- 12:30-14:00  Lunch
- 14:00-15:15  Tutorial 4
- 15:15-16:30  Tutorial 5
- 16:30-17:00  Coffee Break
- 17:00-18:15  Tutorial 6
- 18:30-21:00  Welcome Party

TUESDAY (June 27, 2017)
- 08:00-18:00  Registration
- 09:00-10:00  Opening Session (TA1)
- 10:00-10:30  Coffee Break
- 10:30-12:00  Parallel Sessions (TB1-TB8)
- 12:00-13:30  Lunch
- 13:30-15:00  Parallel Sessions (TC1-TC8)
- 15:00-15:30  Coffee Break
- 15:30-17:30  In Memoriam of Professor Abraham Charnes, 1917-1992 (TD1)
- 18:00-21:00  Optional Dinner

WEDNESDAY (June 28, 2017)
- 08:00-12:00  Registration
- 08:00-09:30  Parallel Sessions (WA1-WA8)
- 09:30-10:00  Coffee Break
- 10:00-11:30  Parallel Sessions (WB1-WB8)
- 11:30-12:30  Lunch
- 12:30-18:30  Half-Day Tour (city of Kutna Hora) and transfer to Strahov Monastery
- 18:00-21:00  Gala Dinner at Strahov Monastery

THURSDAY (June 29, 2017)
- 08:30-10:00  Parallel Sessions (RA1-RA8)
- 10:00-10:30  Coffee Break
- 10:30-12:00  Parallel Sessions (RB1-RB8)
- 12:00-13:30  Lunch
- 13:30-15:00  Parallel Sessions (RC1-RC8)
- 15:00-15:30  Coffee Break
- 15:30-17:00  Closing Session (RD1)
- 17:00-18:30  Workshop: The Art and Science of Publishing Papers (RE1)
FRIDAY (June 30, 2017)

- 08:30-18:30 Depart for the optional full-day tour to Karlovy Vary spa and the Moser glass factory

- 18:30 Arrival back to the University
Tutorials
June 26, 2017 (Room B)

**Tutorial 1** - 08:30 - 9:45
Subhash Ray
*Selection of inputs and outputs in DEA*

**Tutorial 2** - 09:45 - 11:00
Victor Podinovski
*Efficiency analysis with weight restrictions and trade-offs*

**Tutorial 3** - 11:30 - 12:45
Ali Emrouznejad
*Benchmarking software: Latest development in PIM-DEA*

**Tutorial 4** - 14:00 - 15:15
Rajiv Banker
*Introduction to two-stage DEA Models*

**Tutorial 5** - 15:15 - 16:30
Konstantinos Triantis
*Modelling and applications of DEA in manufacturing*

**Tutorial 6** - 17:00 - 18:15
Rolf Färe and Prof Shawna Grosskopf
*Network DEA*
Sessions

SESSION TA1: Opening Session
June 27, 2017, 09:00-10:00 (Room RB101)
Session Chair: Josef Jablonsky

SESSION TB1: DEA Modeling and Algorithms
June 27, 2017, 10:30 - 12:00 (Room RB210)
Session Chair: Finn Forsund

P53 Jesus T. Pastor, Juan Aparicio and Vidal Jiménez Fernando
*The Weighted Additive Distance Function*

P177 Vladimir Krivonozhko and Andrey Lychev
*Algorithms for FDH frontier visualization*

P76 Giovanni Cesaroni, Kristiaan Kerstens and Ignace Van de Woestyne
*Short- and Long-Run Plant Capacity Notions: Definitions and Comparison*

P78 Finn Forsund, Vladimir Krivonozhko and Andrey Lychev
*On the concept and measurement of frontier smoothness in DEA models*

SESSION TB2: DEA Modeling and Algorithms
June 27, 2017, 10:30 - 12:00 (Room RB213)
Session Chair: Rolf Fare

P73 Milan Hladik
*A novel data envelopment analysis ranking based on a robust approach*

P149 Juan Aparicio and Magdalena Kapelko
*Accounting for Slacks to Measure Dynamic Inefficiency in Data Envelopment Analysis*
P145  Tihomir Hunjak and Tomislav Bogović
Measuring governance efficiency in Croatian cities

P102  Rolf Fare, Giannis Karagiannis and Shawna Grosskopf
On Technical Inefficiency Indicators at the Industry Level

SESSION TB3: DEA in Banking and Finance
June 27, 2017, 10:30 - 12:00 (Room RB205)
Session Chair: Martin Branda

P77  Shu-Chin Huang
How can central banks’ interest-rate policies affect commercial banks’ technological development?

P229  Dráč Radovan and Kristina Kočičková
Change in technical efficiency in European Union banking

P115  Ana María Reyna, Hugo Fuentes and José Antonio Nuñez
The Low Interest Rates Environment and the Performance Response of the Mexican Insurance Companies

P127  Martin Branda
Risk-aversion in diversification-consistent data envelopment analysis models

SESSION TB4: DEA in Supply Chain Management
June 27, 2017, 10:30 - 12:00 (Room RB206)
Session Chair: Romain Petiot

P64  Patcharaporn Yanpirat, Suneeporn Ounsamai and Sansanee Supapa
Integrated Balanced Score Card and Total Quality Management in Supplier Performance Measurement using the Combined Methods of Factor Analysis, VAHP and Multistage

P189  Francisco Daladier Marques Júnior, Kelvin Lopes Dias, Paulo Roberto Freire Cunha and Marco Antônio de Oliveira Domingues
A Multiobjective way to select the best settings using Super-Efficiency SBM DEA models to deliver network virtualization services - a stochastic case of study
P208 Alessandro Cortes
A triple bottom line approach for measuring supply chains sustainability using Data Envelopment Analysis

P61 Romain Petiot and Laurent Cavaignac
Performance Analysis of French Logistics Services Providers: A First Data Envelopment Analysis

SESSION TB5: DEA in Education
June 27, 2017, 10:30 - 12:00 (Room RB207)
Session Chair: Matthias Klumpp

P18 Shiu-Wan Hung, Dong-Sing He, Min-Jhih Cheng and Chen-En Hou
Is Government Funding Critical to the Operation Performance of Technology Universities? A Case Study of Taiwan

P258 Audrone Jakaitiene and Dovile Stumbriene
Data Envelopment Analysis in Construction a Composite Indicator for Education Monitoring

P314 Maja Mihaljević Kosor, Lena Malešević Perović and Silvia Golem
Efficiency of Public Spending on Education: A Data Envelopment Analysis for EU-28

P176 Matthias Klumpp
DEA Malmquist Index Application for University Ranking Data

SESSION TB6: DEA in Health and Hospital Efficiency
June 27, 2017, 10:30 - 12:00 (Room RB203)
Session Chair: Selin Ceren Turan

P88 Tamás Koltai, Rita Dénes and Zoltán Dénes
Examination of the effect of patients' functional status on the operation of neuro-musculoskeletal rehabilitation units in Hungary using data envelopment analysis
P186  Miroslav Huzvar and Mária Grausová
Efficiency of Health Systems in European Countries Assessed with DEA

P226  Roxani Karagiannis
Productivity Growth in the Greek Pharmaceutical Industry

P294  Selin Ceren Turan and Mehmet Ali Cengiz
Second stage Stochastic Frontier Analysis using heuristic algorithm methods for estimation of health system efficiency for OECD countries

SESSION TB7: DEA in Energy
June 27, 2017, 10:30 - 12:00 (Room RB204)
Session Chair: Mark Anderson

P50  Yao-Yao Song and GuoLiang Yang
Measuring the productivity evolution of Chinese regional thermal industries using malmquist-luenberger productivity index

P163  Subhash Ray and Shilpa Sethia
Efficiency benchmarking of power generation utilities in India for assessing the opportunity cost of pollution reduction

P210  Tripta Thakur and Pavan Khetrapal
Benchmarking of Indian Electricity Distribution Utilities Using Data Envelopment Analysis

P217  Mark Anderson, Rajiv Banker, Yan Ma and Han-Up Park
Production Efficiency in a Volatile Environment: Evidence from the Oil and Gas Industry

SESSION TB8: DEA in Firms/Industry
June 27, 2017, 13:30 - 15:00 (Room RB212)
Session Chair: Fazıl Gökgöz

P277  Wan Qiang, Zhu Nan and Huang Qiang
Frontier Analysis of Chinese Securities Companies: DEA Approach

P152  Fazıl Gökgöz and Mustafa Taylan Güvercin
Investigating the Super-Efficiency of the Top ICT Companies Worldwide
P153  Fazıl Gökgöz and Mustafa Taylan Güvercin  
*Performance Benchmark of the Top Telecom Operators in the Mobile Era*

P71   Anand Venkatesh and Shivam Kushwaha  
*Efficiency of Test Cricket Teams Using Data Envelopment Analysis*

**SESSION TC1: DEA Modeling and Algorithms**

**June 27, 2017, 13:30-15:00 (Room RB210)**

Session Chair: Subhash Ray

P14   Maryam Allahyar, Mehdi Toloo and Jana Hanclova  
*A directional distance method on classifying inputs and outputs in DEA*

P43   Victor John Cantor and Kim Leng Poh  
*A Modified SBM-NDEA Approach Considering Non-homogeneity of Sub Processes*

P173  Jiyoung Lee, Chulyeon Kim and Gyunghyun Choi  
*Exploring the quantum-jump benchmarks using frontier relaxation approach in DEA*

P93   Subhash Ray  
*Production Correspondence, Technical Efficiency, and the CCR Ratio*

**SESSION TC2: DEA Modeling and Algorithms**

**June 27, 2017, 13:30-15:00 (Room RB213)**

Session Chair: Mohsen Afsharian

P87   Yongjun Li, Lizheng Wang and Liang Liang  
*Robust Data Envelopment Analysis with Undesirable Outputs: An application to Measure Performance of National Basketball Association Players*

P44   Sören Guntram Harms, Mohsen Afsharian and Heinz Ahn  
*An Alternative Meta-Frontier Malmquist Index for Measuring Productivity Over Time*
P96  Oncu Hazir and Klaus Werner Schmidt  
A DEA Application for Multi-Mode Project Planning

P45  Mohsen Afsharian, Heinz Ahn and Sören Guntram Harms  
DEA-based Performance Comparison of Management Groups under Centralized Management

SESSION TC3: DEA in Banking and Finance  
June 27, 2017, 13:30-15:00 (Room RB212)  
Session Chair: Nan Zhu

P243  Mengtian Xiao, Nan Zhu and Jingwen Lai  
Board gender diversity and firm performance: A study of Chinese commercial banks

P292  Natalia Iwaszczuk and Grzegorz Ginda  
A DEA-based framework for financial investment portfolio identification

P331  Veljko Bojovic  
Subsidizing (foreign) direct investments - ex post efficiency analysis with DEA

P247  Nan Zhu, Qiang Huang, Luman Chen and Renbian Mo  
On Competitive Power of Chinese Commercial Banks: DEA Approach

SESSION TC4: DEA in Supply Chain Management  
June 27, 2017, 13:30 - 15:00 (Room RB207)  
Session Chair: Kurt Nielsen

P320  Junfei Chu  
A new common-weight multi-criteria decision-making approach for technology selection

P26  Kamran Rashidi and Kevin Cullinane  
Sustainable Logistics Performance: An international Case Study
P57 Abdollah Noorizadeh and Antti Peltokorpi
*A key supplier efficiency analysis in construction projects: application of data envelopment analysis*

P327 Jens Leth Hougaard, Kurt Nielsen and Athanasios Papakonstantinou
*A Simplified Two-attribute Yardstick Procurement Auction with Endogenous Scoring*

**SESSION TC5: DEA in Eco-efficiency**
June 27, 2017, 13:30 - 15:00 (Room RB206)
Session Chair: Guoliang Yang

P83 Tomas Balezentis, Lingling Hou and Lena Kuhn
*Technical and environmental efficiency of Chinese hog farms measured by a DEA approach*

P253 Zhuang Miao and Tomas Balezentis
*Performance Decomposition and Pathway Optimization of China’s Air Pollution Control: Evidence from “Three Regions and Ten Urban Agglomerations”*

P312 Jin-Li Hu and Yi-Chun Lin
*Disaggregate Output and Input efficiencies of Taiwan’s Regions*

P47 Ali Emrouznejad, Guoliang Yang and Marianna Marra
*Eco-efficiency considering CO2 emissions and Data Envelopment Analysis: A critical and structured literature review*

**SESSION TC6: DEA in Health and Hospital Efficiency**
June 27, 2017, 13:30 - 15:00 (Room RB205)
Session Chair: Lei Chen

P62 Indranil Bardhan and Chenzhang Bao
*Measuring the Relative Performance of Accountable Care Organizations using DEA*

P91 M. Ensar Yesilyurt, Filiz Yesilyurt and Ali Emrouznejad
*A comparative study of SFA and DEA for measuring efficiency of hospital in Turkey*
SESSION TC7: DEA in Energy
June 27, 2017, 13:30 - 15:00 (Room RB204)
Session Chair: Leonid Galchinsky

P330 Rolando Valdivia

P181 Laura Carosi, Giovanna D’Inverno, Giulia Romano and Andrea Guerrini
*Estimating efficiency of Italian water utilities by accounting for quality issues*

P299 Wen Song and Gong-Bing Bi
*A performance evaluation of China’s coal-fired power generation from models comparison perspective*

P63 Leonid Galchinsky and Andriy Svydenko
*Evaluating the effectiveness of market prices in the petroleum products market for DEA methodology*

SESSION TC8: Network DEA and Dynamic Efficiency
June 27, 2017, 13:30 - 15:00 (Room RB203)
Session Chair: Dimitris Despotis

P137 Qingxian An, Haoxun Chen and Beibei Xiong
*Target intermediate products setting in a two-stage system with fairness concern*
P309 Erwin Lin  
*Evaluating Performance of Rail Transport using Network DEA Model*

P187 Antonio Peyrache and Maria Silva  
*Multi-level Parallel Network models*

P156 Dimitris Despotis, Gregory Koronakos and Dimitris Sotiros  
*Restatement of different network DEA methods in a common modelling framework*

**SESSION TD1: In Memoriam Professor Abraham Charnes, 1917 - 1992**

**June 27, 2017, 15:30 - 17:30 (Room RB101)**

Session Chair: Luka Neralic

Kaoru Tone  
*Souvenir of Abe Charnes - video*

Fred Phillips  
*Personal Recollections of Abraham Charnes and the Early Years of DEA*

Boaz Golany  
*Challenges and Opportunities in Measuring Efficiency Through DEA*

John Semple  
*Abraham Charnes and Sensitivity Analysis in DEA*

Thyago C. Nepomuceno  
*Methodological and Empirical Advances in the Assessment of the Performance of Productive Efficiency Since the Introduction of DEA: A Bibliometric Analysis*

Luka Neralic  
*In Memoriam Professor Abraham Charnes, 1917 – 1992 on the Occasion of Hundred Years Since His Birthday*
SESSION WA1: Stochastic DEA
June 28, 2017, 08:00 - 09:30 (Room RB213)
Session Chair: Rajiv Banker

P364 Christopher F. Parmeter
*Improved data-driven smoothed DEA*

P365 Ole Bent Olesen and John Ruggiero
*An improved Afriat-Diewert-Parkan nonparametric production function estimator*

P366 Samah Jradi and John Ruggiero
*Stochastic DEA: Measuring the production frontier in a composed error model*

SESSION WA2: DEA Modeling and Algorithms
June 28, 2017, 08:00 - 09:30 (Room RB212)
Session Chair: Andreas Kleine

P38 Sahand Daneshvar and Mustapha D. Ibrahim
*A New Efficiency Improvement Direction in Data Envelopment Analysis: Based on Most Productive Scale Size*

P49 Mohsen Rostamy-Malkhalifeh and Motahare Ebrahimzade-Adimi
*A new linear method to finding congestion hyperplane in DEA*

P58 Andreas Dellnitz and Andreas Kleine
*RTS-Mavericks in DEA: A first application for cross-returns to scale*

P81 Reza Kazemi Matin and Mahdi Mirjaberi
*Calculating Directional Scale Elasticity in DEA Models with Undesirable Outputs*

P22 Robabeh Eslami and Mohammad Khoveyni
*Estimating returns to scale of two-stage network processes*
SESSION WA3: DEA in Banking and Finance
June 28, 2017, 08:00 - 09:30 (Room RB210)
Session Chair: Dimitris Margaritis

P98    Avijit Bakshi and Deepankar Sinha
       *A DEA based Framework for Proposed Merger of Public Sector Banks in India*

P233   Süleyman Kale and Mehmet Hasan Eken
       *Bank Efficiency and Growth in OECD Countries*

P227   Lucie Chytilová and Jana Hanclova
       *Comparison of efficiency results for financial institutions using classical DEA model and StoNED model with contextual variables*

P280   Maryam Hasannasab, Dimitris Margaritis and Psillaki Maria
       *Acquisition premiums and performance of EU-15 banks*

SESSION WA4: DEA Modelling and Algorithms
June 28, 2017, 08:00 - 09:30 (Room RB207)
Session Chair: Sungmook Lim

P224   Luiza Badin, Cinzia Daraio and Leopold Simar
       *Bandwidth selection issues in nonparametric conditional frontier models*

P212   Sungmook Lim
       *Data envelopment analysis with imprecise data based on robust optimization*

P307   Shadi Mohseni, Razieh Mehrjoo and Mohsen Rostamy-Malkhalifeh
       *Measuring Supply chain cost efficiency with interval data by DEA Models*
SESSION WA5: DEA in Agriculture
June 28, 2017, 08:00 - 09:30 (Room RB206)

Session Chair: Subir Sen

P66 Maryam Mohaghegh Tabar
*Modified super-efficiency data envelopment analysis models for fixed input allocation problems*

P222 Lukas Fryd and Ondrej Sokol
*Effectivity of the agriculture business in EU: How subsidies affect effectivity?*

P207 Subir Sen
*Relationship between Rainfall and Foodgrains Productivity: Study of selected Indian States*

P159 Alireza Khoshroo, Mohammad Izadikhah and Ali Emrouznejad
*Improving energy efficiency in chickpea production in Iran: A Data Envelopment Analysis approach with undesirable output*

SESSION WA6: DEA in Health and Hospital Efficiency
June 28, 2017, 08:00 - 09:30 (Room RB205)

Session Chair: Yuri Fedotov

P142 Almoghirah Abdellah and Babiker Mohammed Ali
*Rural hospitals in Gezira State : Productive efficiency and its determinant factors 2016*

P334 Mehmet Sinan Iyisoy
*Assessing efficiency in different departments of a hospital using data envelopment analysis*

P204 Kazimir Iablonskii, Yuri Fedotov and Nikolai Hovanov
*Performance Assessment of Saint Petersburg Public Hospitals with DEA and APIS*

P118 Asmita Chitnis and Shivam Kushwaha
*Assessment of Technical and Scale Efficiencies of Indian Drug and Pharmaceuticals Industry using Data Envelopment Analysis*
SESSION WA7: DEA in Energy
June 28, 2017, 08:00 - 09:30 (Room RB204)
Session Chair: Maria Friese

P216 Sai Amulya and Mukul Kulshrestha
  Productivity growth, Technical Progress and Efficiencies in the Indian urban Water Supply sector

P30 Iswahyudi Sondi Putra
  Measurement of Oil and Gas Upstream Industry Performance in Indonesia: A Data Envelopment Approach.

P131 Maria Friese
  Efficiency of German incineration plants

P33 Nasser Amani and Hadi Bagherzadeh Valami
  Application of Malmquist Productivity Index with Carry-Over Index in Power Industry

SESSION WA8: Network DEA and Dynamic Efficiency
June 28, 2017, 08:00 - 09:30 (Room RB203)
Session Chair: Mehdi Toloo

P195 Thanasis Bouzidis and Giannis Karagiannis
  Output Interdependency in Network DEA

P35 Chandra Raman and Rajbhir Bhatti
  Performance Measurement of Heavy Equipment Dealerships using Data Envelopment Analysis (DEA)

P92 Debora Di Caprio, Francisco Javier Santos Arteaga and Madjid Tavana
  Knowledge Accumulation and Technological Evolution within a Dynamic Slacks-Based Measure Multi-Stage Data Envelopment Analysis Model

P339 Jiri Franek and Mehdi Toloo
  A two-stage DEA approach to analysis of economies of scope: case of China Mobile
P15  Fariba Khalafi and Reza Kazemi Matin

Efficiency Decomposition in Network Data Envelopment Analysis with Non-Radial Models

SESSION WB1: DEA Modeling and Algorithms
June 28, 2017, 10:00 - 11:30 (Room RB213)
Session Chair: Victor Podinovski

P184  Antonio Peyrache

Homothetic Nonparametric Production Frontiers

P191  Giannis Karagiannis

Pure output and pure input DEA models: A tour de force

P206  Francisco Vargas, Arnulfo Castellano and Luis Rentería

Optimal propensity to consume, shadow prices and the Great Recession

P143  Victor Podinovski

Interpreting optimal weights in DEA models with weight restrictions

SESSION WB2: DEA Modeling and Algorithms
June 28, 2017, 10:00 - 11:30 (Room RB212)
Session Chair: Ole Bent Olesen

P318  Pekka Korhonen, Akram Dehnokhalaji and Nasim Nasrabadi

A Lexicographic Radial Projection onto the Efficient Frontier in Data Envelopment Analysis

P337  Mária Trnovská and Margaréta Halická

Semidefinite programming approach to the hyperbolic measure model in DEA

P353  Marijn Verschelde, Laurens Cherchye, Bram De Rock and Thomas Demuynck

Nonparametric production analysis with unobserved heterogeneity

P250  Ole Bent Olesen, Niels Christian Petersen and Victor V. Podinovski

DEA Models with Ratio Measures & Potential Ratio Inefficiency
SESSION WB3: DEA in Banking and Finance
June 28, 2017, 10:00 - 11:30 (Room RB210)
Session Chair: Subhash Ray

P231 Lukas Fryd and Nataliya Soldatyuk  
*Measuring dependency between efficiency of financial sector and the economic growth.*

P134 Subhash Ray, Kankana Mukherjee and Abhiman Das  
*The MPSS and Target Setting for Optimal Scale of Indian Bank Branches*

P140 Martin Boda, Martin Dlouhý and Emilia Zimkova  
*Technical efficiency measurement with unobservable production variables of differing relative importance*

P162 Subhash Ray, Kankana Mukherjee and Abhiman Das  
*Financial Deregulation, Efficiency and Productivity Dynamics of Indian Banks*

SESSION WB4: DEA in Supply Chain Management
June 28, 2017, 10:00 - 11:30 (Room RB207)
Session Chair: Petr Fiala

P75 Amir Shabani, Paolo Barbieri, Wout Dullaert, Daniele Vigo and Franco Visani  
*Bridging the Gap Between Supplier Total Cost of Ownership and Data Envelopment Analysis*

P104 Sadiye Eylul Sadanoglu  
*A Multi-Stage Dynamic Network Data Envelopment Analysis Model for Evaluating Supply Chain Sustainability*

P234 Petr Fiala  
*Applications of DEA in revenue management*

P298 Alireza Amirteimoori and Ali Ahadzadeh Ghannad  
*Network Data Envelopment Analysis for Supply Chain Performance Evaluation: Case of Poultry Industry*
**SESSION WB5: DEA in Eco-efficiency**

June 28, 2017, 10:00 - 11:30 (Room RB206)

Session Chair: Mikulas Luptacik

P95 Yujiao Xian and Ke Wang
*Carbon emissions abatement cost savings from trading: an parametric and nonparametric combined estimation of China's pilot carbon trading markets*

P175 Jing Fu
*Facilitating Sino-Japan Clean Air Collaboration: An Application of Clustering Two-Stage Data Envelopment Analysis with Undesirable Intermediate Measures*

P209 Jana Hanclova, Mehdi Toloo, Lukas Melecky and Michaela Stanickova
*Energy Efficiency Comparison of EU28 Countries Based on Various Undesirable Outputs of Air Emissions*

P155 Eduard Nezinsky and Mikulas Luptacik
*Measuring income inequalities beyond Gini coefficient*

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**SESSION WB6: Fuzzy DEA Modeling**

June 28, 2017, 10:00 - 11:30 (Room RB205)

Session Chair: Joshua Ignatius

P278 Ayhan Gölcükcü and Hasan Bal
*Adding a Different Meaning to FDEA by Triangular Norms*

P279 Hasan Bal and Ayhan Gölcükcü
*Comparison of Alpha-Levels in Fuzzy Data Envelopment Analysis*

P343 Joshua Ignatius and Mohammadreza Ghasemi
*Improving Discriminant Power of VRS by Fuzzy Concept*

P20 Hadi Bagherzadeh Valami
*Introduction a fuzzy efficiency score in Data Envelopment Analysis with fuzzy data*
**SESSION WB7: Malmquist Productivity Index**

June 28, 2017, 10:00 - 11:30 (Room RB204)

Session Chair: Shawna Grosskopf

- **P10**  
  Eduardo Gonzalez, Ana Carcaba and Juan Ventura  
  *Malmquist decomposition of the evolution of QoL in Spanish municipalities (2001-2011)*

- **P158**  
  Pontus Mattsson, Christian Andersson, Fredrik Bonander and Jonas Månsson  
  *A bootstrapped Malmquist index applied on Swedish district courts*

- **P150**  
  Rolf Fare, Shawna Grosskopf and Daniel Primont  
  *Circularity of the Malmquist Productivity Index Revisited*

- **P251**  
  Said Gattoufi, Nadia Abaoub Ouertani and Yosra Boughdiri  
  *A Dynamic analysis of the efficiency of regional development programs in Tunisia using Malmquist Index*

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**SESSION WB8: DEA in Manufacturing**

June 28, 2017, 10:00 - 11:30 (Room RB203)

Session Chair: Maria da Conceição Andrade e Silva

- **P248**  
  Mark Anderson, Rajiv Banker and Soonchul Hyun  
  *Innovation, Incentives and Productivity in Manufacturing*

- **P281**  
  Behrouz Arabi, Rui Sousa, Maria da Conceição Andrade e Silva and Ana Camanho  
  *Manufacturing Strategies and Operations Performance: a Frontier Approach*

- **P291**  
  Grzegorz Ginda and Mirosław Dytczak  
  *What makes DEA successful in civil engineering applications?*

- **P164**  
  Mrinal Dasgupta and Deepankar Sinha  
  *Pricing of port services in Indian major ports – a DEA based approach*
SESSION RA1: DEA Modeling and Algorithms
June 29, 2017, 8:30 - 10:00 (Room RB213)
Session Chair: Mohammad Khoveyni

P193  Atakeley Hailu
Bad outputs in DEA models: Clearing some confusions

P6    Mahnaz Mirbolouki
Identifying type of right and left returns to scales: Hyperplane approach

P70   Ioannis Gkouvitsos and Ioannis Giannikos
Using a MACBETH based multicriteria approach for virtual weight restriction in each step of a DEA multi-stage ranking process

P21   Mohammad Khoveyni and Robabeh Eslami
Finding the stability region of efficiency of efficient firms for upward variations of inputs and downward variations of outputs

SESSION RA2: DEA Modeling and Algorithms
June 29, 2017, 8:30 - 10:00 (Room RB212)
Session Chair: Sheng Ang

P116  Arif Muhammad Tali, Tirupathi Rao and Qaiser Dar
Non-radial DEA models in series type two-stage production processes

P90   M. Ensar Yesilyurt, Mehmet Dogan Elbi, Ali Emrouznejad, Mehmet Ulas Koyuncuoglu, Emre Sahin, Filiz Yesilyurt and Aydin Kizilkaya
Computing single outputs for DEA

P110  Sheng Ang, Menghan Chen and Feng Yang
A DEA cross-efficiency evaluation for Taiwan hotel groups

P108  Mehdi Effatparvar
Load Balancing Approach based on DEA in Grid Computing Environment
SESSION RA3: DEA in Banking and Finance
June 29, 2017, 8:30 - 10:00 (Room RB210)
Session Chair: Mark Anderson

P12 Joyeeta Deb and Santa Kar
Efficiency Determinants of Microfinance Institutions in India

P188 Simona Alfiero, Alfredo Esposito, Parisa Madhooshiairzanag and Mehdi Toloo
The efficiency measures of the European commercial banking sector.
A relational network DEA application.

P332 Chunxia Jiang, Chunan Hu and Shujie Yao
Friend and Foe: The impact of shadow banking on bank performance, financial stability, and economic growth in China

P262 Mark Anderson and Dongning Yu
Operating and Investing Efficiency of Real Estate Investment Trusts (REITs)

SESSION RA4: DEA in Education and Sports
June 29, 2017, 8:30 - 10:00 (Room RB207)
Session Chair: Assem Tharwat

P167 Sanjeet Singh and Prabhat Ranjan
Efficiency Analysis of Higher Education Institutions: Use of Categorical Variables

P218 V. Alpaqut Yavuz
Performance Measurement of Departments in Universities as a Basis of Policy Development

P236 Marcus Vinicius Pereira de Souza and Helaine Aparecida Da Silva
On Assessing the Quality in Education of Public School Using IDEB and DEA

P214 Assem Tharwat, Basma El-Demerdash and Ihab El-Khodary
Evaluating the Performance of European Football Teams Using Data Envelopment Analysis
SESSION RA5: DEA in Transportation
June 29, 2017, 8:30 - 10:00 (Room RB206)
Session Chair: Laurant Cavaignac

P84 Hana Fitzová and Markéta Matulová
Transformation of Urban Public Transport Financing and its Effect on Operators’ Efficiency

P342 Wenxue Tu
The Historical Evolution of Urban Space in Major Cities of Hubei Province and Its Application Using DEA

P326 Chao-Chung Kang
Performance Evaluation of Metro-Transit System: A Network DEA with Parallel Network Structure

P60 Laurent Cavaignac and Romain Petiot
The Contributions of DEA to Airports Efficiency Analysis: A 20 Years Meta-Analysis

SESSION RA6: Fuzzy DEA Modeling
June 29, 2017, 8:30 - 10:00 (Room RB205)
Session Chair: Reza Tavakkoli-Moghaddam

P46 Ali Ebrahimnejad and Farhad Hosseininzadeh Lotfi
Fuzzy Efficiency Measures in Data Envelopment Analysis with Undesirable Outputs Using Fuzzy Arithmetic Approach

P68 Nur Fatin Bari’ah and Adam Baharum
An integrated Fuzzy DEA-QFD approach in Eco Efficiency system for Malaysia green airplane assessment.

P132 Rooollah Abbasi Shureshjani, Sina Asgarinejad and Ali Asghar Foroughi
Evaluating the efficiency of decision making units in fuzzy two-stage data envelopment analysis models

P69 Raziyeh Heidari, Reza Tavakkoli-Moghaddam, Reza Yazdanparast and Leyla Aliabadi
A Fuzzy Data Envelopment Analysis for Assessment of Supply Chain Resilience: An Iranian Car Manufacturer
SESSION RA7: DEA in Transportation and Tourism

June 29, 2017, 8:30 - 10:00 (Room RB204)

Session Chair: Martina Kuncova

P79 Adeola Osundiran and Prof Felix Okonta
Application of Data Envelopment Analysis to selected Ports in Southern and East Africa

P354 Seddigheh Babaee, Yongjun Shen, Elke Hermans, Mehdi Toloo, Tom Brijs and Geert Wets
A Common Weight Multiple Layer DEA approach to assess road user behavior in Europe

P82 Hana Vojáčková, Martina Kuncová and Jaromír Rux
Data Envelopment Analysis Applied on the Potential of the Tourism in Municipalities

SESSION RA8: DEA in Manufacturing

June 29, 2017, 8:30 - 10:00 (Room RB203)

Session Chair: Ali Mirsalehy

P148 Muhammad Omer Chaudhry and Firdous Kousar
An Efficiency Analysis of Small Scale Industrial Units: A Case Study of Power Looms in Multan (Pakistan)

P172 Osman Zaim
Measuring Energy Intensity in U.S Manufacturing: A New Approach

P39 Bahareh Vaisi
Productivity improvement in a manufacturing system using computer simulation: A comparison between DEA and DEAGP

P355 Hamed Abdipourvosta and Ali Mirsalehy
To set a benchmark of safety efficiency of construction contractors through data envelopment analysis
SESSION RB1: DEA Modeling and Algorithms
June 29, 2017, 10:30 - 12:00 (Room RB213)
Session Chair: Amar Oukil

P308 Nasim Arabjazi, Asieh Gholaminezhad and Mehdi Toloo
*A goal programming model in data envelopment analysis cross-efficiency evaluation*

P344 Hamid Nilsaz Dezfooli and Ali Mirsalehy
*The Centralized Resource Allocation for Enhanced ADD Model*

P36 Amar Oukil and Srikrishna Madhumohan Govindaluri
*Towards an efficient approach for ranking football players worldwide*

P305 Mohsen Rostamy-Malkhalifeh, Asieh Gholaminezhad and Nasim Arabjazi
*Determine stability region in DEA with maintenance of classification of extreme efficient DMUs*

SESSION RB2: DEA Modeling and Algorithms
June 29, 2017, 10:30 - 12:00 (Room RB212)
Session Chair: Yuri Fedotov

P151 Mojtaba Ghiyasi
*Extended assignment and transportation problems based on DEA models*

P169 Ali Mirsalehy, Maryam Khorshidi Rad and Masoud Sanei
*Centralized Resource Allocation Models in a Unified Framework*

P178 Sara Fanati Rashidi
*Determination of right/left return to scale in two-stage processes based on dual simplex*

P197 Yuri Fedotov, Nikolai Hovanov and Kazimir Iablonskii
*DEA models with undesirable inputs and outputs: Application of Power Normalization over the Spread of Variables in a Sample*
SESSION RB3: DEA in Banking and Finance  
June 29, 2017, 10:30 - 12:00 (Room RB210)  
Session Chair: Don Galagedera

P27 Younos Vakil Alroaia  
Evaluating the Performance of Companies Listed in Tehran Stock Exchange based on Financial Ratios Using DEA (The Case of Chemical & Medical Company)

P34 Janet Ganouati and Stéphane Vigeant  
Optimal portfolio selection under higher moments: DEA-Cross efficiency approach

P65 Iveta Palečková  
Technical efficiency of selected CEE banking sectors applying the Dynamic DEA model

P42 Don Galagedera, Israfil Roshdi, Hirofumi Fukuyama and Joe Zhu  
Intermediate resource imbalance in network DEA: assessment and implication on overall and stage level performance

SESSION RB4: Network DEA and Dynamic Efficiency  
June 29, 2017, 10:30 - 12:00 (Room RB207)  
Session Chair: Josef Jablonsky

P72 Bruno Torres, Mariana Almeida, Lidia Angulo Meza and João Carlos Soares de Mello  
A Network DEA approach for the H-index

P165 Trishit Bandyopadhyay  
Measuring the scoring efficiency of a soccer match – a case study of Indian Super League

P359 Michal Pieter  
Generalizing the Hybrid structure Network DEA model

P268 Josef Jablonsky  
Ranking of countries in sporting events: a two-stage data envelopment analysis model (a case of Olympic Games 2016)
**SESSION RB5: DEA in Agriculture**  
*June 29, 2017, 10:30 - 12:00 (Room RB206)*  
*Session Chair: Basil Manos*

P74 Helena Brozova and Ivana Bohackova  
*Efficiency of the Agricultural Sector in the Visegrad States – Comparisons using Malmquist index*

P114 Wenqiang Bao and Subhash Ray  
*Productivity Growth and Its Components in Chinese Agriculture*

P144 Subhash C Ray, Shweta Nawani and Anand Venkatesh  
*Are Indian Sugar Mills operating at Right Size? Finding the Most Productive Scale Size (MPSS) using DEA*

P124 George Vlontzos and Basil Manos  
*Assessing the efficiency of olive trees cultivation by implementing the DEA methodology*

**SESSION RB6: DEA and Data Mining**  
*June 29, 2017, 10:30 - 12:00 (Room RB205)*  
*Session Chair: Vincent Charles*

P202 Steffen Hoffmann, Andreas Kleine and Andreas Dellnitz  
>Selecting data and DEA results for visualization*

P67 Shahin Ashkiani and Cecilio Mar Molinero  
*Visualization of Cross-Efficiency Matrices Using Multidimensional Unfolding*

P282 Emre Dünder, Serpil Gümüstekekin and Mehmet Ali Cengiz  
*A second stage approach in efficiency analysis via multivariate adaptive regression splines*

P336 Vincent Charles and Juan Aparicio  
*Assessing the Ease of Doing Business across Economies*
SESSION RB7: Malmquist Productivity Index
June 29, 2017, 10:30 - 12:00 (Room RB204)
Session Chair: Madjid Tavana

P97  Yu Zhao, Yukihiro Maruyama and Hiroshi Morita
*The measurement and categorization of productivity change in consideration of allocative efficiency*

P259  Arezoo Gazori Neishabori, Kaveh Khalili Damghani and Ashkan Hafez Alkotob
*Development of Network Dynamic Data Envelopment Analysis for Industrial Management Institute performance evaluation system using Games Theory*

P107  Nazila Aghayi and Bentolhoda Maleki
*The Malmquist Productivity Index with Interval Data and Undesirable Outputs*

P192  Mona Alibeik and Mohsen Rostamy Malkhalifeh
*A novel optimal method for calculating the Malmquist Productivity Change Index*

SESSION RB8: DEA in Industries
June 29, 2017, 10:30 - 12:00 (Room RB203)
Session Chair: Gordon Potter

P246  Labanya Pal and Chiranjib Neogi
*Sources of Productivity Growth in Indian Manufacturing Industries: A DEA Approach*

P274  Pegah Hajimirzakhoshnevis and Peter Teirlinck
*Geographical proximity and economic performance of space industry actors in Belgium*

P261  Juha Eskelinen and Abolfazl Keshvari
*Efficiency evaluation of public employment services in Finland - a non-parametric matching function approach*

P296  Rajiv Banker, Hyunjin Oh, Gordon Potter and Kyung-A Sun
*Impact of Franchising on the Operating Efficiency of Hotels*
SESSION RC1: DEA Modeling and Algorithms
June 29, 2017, 13:30 - 15:00 (Room RB213)
Session Chair: Panagiotis Zervopoulos

P135 Carla Amado, Sérgio Santos and José São José

Measuring and Decomposing the Gender Pay Gap: A New Frontier Approach

P235 Grigory Pishchulov, Heinz Tüselmann and Rudolf R. Sinkovics

A bargaining solution approach to aggregation of ordinal preferences by means of DEA

P200 Panagiotis Zervopoulos, Ali Emrouznejad and Sokratis Sklavos

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P125 Marzieh Moradi Dalini and Abbas Ali Noura

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P276 Israfil Roshdi, Maryam Hasannasab, Rolf Fare, Paul Rouse and Dimitri Margaritis

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P271 Reza Maddahi

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P160 Haochen Guo
*An MADM-based method to evaluate the cargo insurance products*

P120 Shamim Ara, Mahfuza Akther and Farida Parveen
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P80 Skarleth Carrales and Jamal Ouenniche
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P348 Seyad Hadi Nasseri, Maryam Olfati and Mehdi Ahmadi Khatir
*Fuzzy Data Envelopment Analysis with Undesirable Output: A possibility approach*

P161 Adel Hatami-Marbini
*Network DEA with Common Weights*

P86 Pooja Bansal and Aparna Mehra
*Directional Distance based Super Efficiency Model for Integer-Valued Data Envelopment Analysis*
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P201 Vladimír Holý and Karel Šafr
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P329 Au Ton Nu Hai, Ludwig Lauwers and Stijn Speelman
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P223 Tatiana Bouzdine-Chameeva, Samah Jradi, Bernard Delhomme and Anicia Jaegler
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P323 Ibrahim Hassan Osman, Abdellatef Majed Anouze, Habin Lee, Zahir Irani, Baydaa Al-Ayoubi, Tunç Medeni and Vishanth Weerakkody
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P297 Seyed Hassan Aghili and Mohsen Rostami Malkhalife
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P141 Hamid Haghighinia and Reza Kargar
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P360 Luka Neralic
Algorithmic Approaches to Sensitivity and Stability Analysis in Data Envelopment Analysis
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*Cyclicality and productivity in the German property/liability insurance industry: Empirical evidence for 1957–2015*

P300 Hédi Essid and Sofiene Omri
*DEA Game Cross-Efficiency Approach to Portfolio Selection*

P168 Raheleh Jalili, Alireza Vahidi and Abdolsadeh Neisy
*DEA-Risk efficiency of Banks Indices*

P48 Shokoofeh Banihashemi
*Portfolio optimization with risk measures VaR and CVaR under VG process in DEA models: A comparison with Gaussian process*

P286 Somayeh Tabatabaei
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Session Chair: Mehdi Toloo

P19 Chen-En Hou, Shiu-Wan Hung and Wen-Min Lu
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P358 Emmanuel Kwasi Mensah and Mehdi Toloo
*Robust optimisation for nonnegative decision variables: A DEA approach*

P288 Razieh Mehrjoo
*Investigating some results in DEA production games, using FDH models*

P190 Ayşe Çoban, Orhan Çoban and Duygu Baysal Kurt
*Technical and Scale Efficiency of the Turkish Automotive Industry Using Data Envelopment Analysis*
P310 Zenaida Garambas

*Performance Evaluation Using Data Envelopment Analysis: A Case of a Philippine University*

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Discussion panel

*Past and Future of Data envelopment analysis*

**SESSION RE1: Workshop**

June 29, 2017, 17:00 – 18:30 (Room RB213)

Session Chair: Mehdi Toloo

Madjid Tavana

*Publish or Perish. The Art and Science of Publishing Journal Papers*
### Conference Statistics

**ICDEA Prague 2017**
Number of participants: 259  
Number of countries: 54  
Number of presentations: 233

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