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Dear Colleague,

We would like to take this opportunity to warmly welcome you to the 14th European Workshop on Efficiency and Productivity Analysis – XIV EWEPA 2015. Over the years the ‘workshop’ has grown to a four-day conference with over 200 presentations and participants from all over the world. Still, the EWEPA conferences maintain casual atmosphere of a workshop that offers opportunities to discuss, debate, and exchange ideas.

In the previous conference in 2013 we introduced several practical ideas to the EWEPA conference, including software tutorials, special sessions intended for practitioners and the industry, three different types of parallel sessions - “Discuss”, “Express”, and “Explain” – and last but not least, Aalto “That’s Interesting!” paper competition. This year we have focused on further development of innovations that worked well last time.

In this year’s EWEPA conference we want to draw attention to fresh new ideas. The first plenary session on Tue 16 features two up-and-coming researchers, Chris Parmeter and Andy Johnson, who present their recent works on nonparametric smoothing and shape constraints. This theme is important for building further bridges between different approaches in our field. Econometrician Parmeter and industrial engineer Johnson approach the theme from different perspectives, and hence it is interesting to see whether and to what extend they can agree or disagree on the issues. In the second plenary session on Wed 17, the three finalists of Aalto “That’s Interesting!” paper competition - Daniela Puggioni, Thomas Triebs, and Russel Cooper - present their works. Selecting plenary speakers through a competition is one way to encourage and celebrate to new ideas.

The social events are extremely important for networking and informal exchange of ideas. After the young researcher’s pre-conference workshop and software tutorials on Mon 15, we host an informal get-together at Aalto University School of Business. On Tue 16, the City of Helsinki sponsors a reception at the City Hall where all conference participants are welcome to join for some snacks and wine. The Conference Dinner with a three course meal and a nice sea-side view to the city will take place on Wed 17. The conference ends on Thu 18 with a farewell coffee.

We wish you a fascinating and productive conference experience in Helsinki!

Timo Kuosmanen, General Chair
Antti Saastamoinen, Event Chair
Abolfazl Keshvari, Program Chair
COMMITTEES

Organizing Committee
Timo Kuosmanen (General Chair), Aalto University School of Business, Finland
Antti Saastamoinen, (Event Chair) Aalto University School of Business, Finland
Abolfazl Keshvari, (Program Chair) Aalto University School of Business, Finland

Scientific Committee
Ex Officio Members:
- Timo Kuosmanen, Aalto University School of Business, Helsinki, Finland
  Representative of the current organisers of EWEPA
- Cinzia Daraio, Sapienza University of Rome, Italy
  Representative of the organisers of EWEPA XI and XII
- Kristiaan Kerstens, IESEG School of Management, France
  Representative of the organisers of EWEPA IX and X
- Meryem Duygun Fethi, University of Leicester, UK
  Representative of the Euro Working Group Efficiency and Productivity Analysis
- Tsu-Tan Fu, Soochow University, Taiwan
  Coordinator from the Asia-Pacific Productivity Conference scientific committee
- C. A. Knox Lovell, University of Georgia, USA and University of Queensland, Australia
  Coordinator from the North American Productivity Workshop scientific committee
- Robin Sickles, Rice University, USA
  Former Editor-in-chief of the Journal of Productivity Analysis

Other Members (elected by the ex officio members):
- Alfons Oude Lansink, Wageningen University, Netherlands
- Victor Podinovski, Loughborough University, UK
- Maria Conceição A. Silva Portela, Universidade Católica Portuguesa, Portugal
- Léopold Simar, Catholic University of Louvain-la-Neuve, Belgium
- Angelo Zago, University of Verona, Italy
SPONSORS

Funding and support for EWEPA'15 from the following organizations is gratefully acknowledged:

Liikesivistysrahasto - The Foundation for Economic Education
HSE Foundation

Yrjö Jahnsson Foundation
City of Helsinki

Aalto University School of Business
CONFERENCE VENUES

Main conference – Scandic Grand Marina Congress Center

Scandic Marina Congress Center is a unique congress venue located right in the heart of Helsinki - next to waterfront and Kauppatori (Market Square). The trademark seaside view of Helsinki is right next to the conference center. Many of the famous sights and locations, such as the Helsinki Cathedral and the Uspenski Cathedral are right next to the venue. The area of Katajanokka, where venue is located, is filled with historic buildings. The special feature of the location is that cruise ships to Stockholm and Tallinn depart right next to the conference venue.

The conference venue offers 11 meeting rooms with exceptionally flexible solutions for all types of events. The facilities are ideal for hosting conferences, congresses, exhibitions and banquets for up to 2,500 people. The meeting rooms vary from modern and spacious halls to a private dining room with seaside view. The conference venue has approximately 500 events annually.
YR workshop – Aalto University School of Business (Chydenia building)

Aalto University School of Business is part of the Aalto University. Established in 2010, the Aalto University is a new university that has centuries of experience. The Aalto University was created from the merger of three Finnish universities: Helsinki School of Economics, Helsinki University of Technology and The University of Art and Design Helsinki. The combination of three schools opens up new possibilities for strong multi-disciplinary education and research. The name "Aalto University" symbolizes change and is a tribute to a courageous, overarching renaissance man, Alvar Aalto. Aalto himself is one of our alumni as well as being the architect of the School of Science and Technology main building.

The School of Business (former Helsinki School of Economics) is both the largest and the highest ranking business school in Finland, consistently listed among the best business schools in Europe and worldwide by the Financial Times. The School was awarded AACSB accreditation in 2007. Its MBA and EMBA Programs are the first business management programs in Finland and the Nordic Countries to receive AMBA accreditation. In addition it was among the first European business schools to receive EQUIS accreditation. The Finnish Higher Education Evaluation Council (FINHEEC) has audited the Business School quality system. Aalto University School of Business is also a member of CEMS, the Global Alliance in Management Education and PIM, Partnership in International Management.

The Chydenia building is one of the buildings of the Business School. The Business School took this building for its use in 1970. Before that, it was used by a high school for girls.
PROGRAM HIGHLIGHTS

PLENARY SESSIONS

Plenary session 1: Tuesday 16 June, 9:00 - 10:30

Nonparametric smoothing and shape constraints
Christopher Parmeter
Andrew Johnson

Plenary session 2: Wednesday 17 June, 9:00 - 10:30

Finalists of Aalto "That's Interesting!" paper competition
The prize jury has selected the following three papers as the finalists:

The value of being Socially Responsible: A DEA Approach for Recovering Shadow Prices of CSR Activities in the Food Manufacturing Sector
Daniela Puggioni* and Spiro Stefanou

Management in Production: From Unobserved to Observed
Thomas Triebs* and Subal Kumbhakar

The Productivity of the Internet from the Perspective of Households
Russel Cooper

The three finalists will present their works in the plenary session. Each finalist should give a presentation of 20 min, followed by questions and comments from the jury consisting of Jaap Bos, Victor Podinovski, and Timo Kuosmanen. After the plenary session, the jury meets to decide the winner. The winner will be announced at the Conference Dinner held at the Grand Marina Congress Center, on the evening of 17th of June.
SOFTWARE TUTORIALS

The following software tutorials are offered during the pre-conference day 15 June.

Basic R tutorial

*Introduction to SFA and DEA estimation using R*

**Time:** 9:00-12:00  
**Location:** Classroom C-250, The main building of Aalto University School of Business  
**Instructor:** Tomasz Czekaj

Advanced R tutorial

*R tutorial for advanced users, including kernel regression and density estimation*

**Time:** 13:00-16:00  
**Location:** Classroom G-113, Chydenia building of Aalto University School of Business  
**Instructor:** Chris Parmeter

GAMS tutorial

*Frontier estimation and efficiency analysis using GAMS (General Algebraic Modeling System)*

**Time:** 13:00-16:00  
**Location:** Classroom C-250, The main building of Aalto University School of Business  
**Instructor:** Andrew Johnson

Contact Antti Saastamoinen for a trial license of GAMS.
CONFERENCE MECHANICS

Venues

Main conference 16-18 June
Grand Marina Congress Center
Street address: Katajanokanlaituri 6

Pre-Conference, 15 June
Chydenia building of Aalto University School of Business.
Street address: Runeberginkatu 22-24.

Location and maps
The location of the conference venues and the indoor maps are at the end of this program book.

Session rooms

Pre-conference:
The young researchers’ pre-workshop is held in the room G-324 (Stora Enso) of the Chydenia building. The room is located on the third floor of the building.

Main conference:
The conference rooms are located in the first and second floor of the Grand Marina Congress Center. See the indoor map at the end of this book.

Note that each room has a laptop for the presentations.

Registration

On 15th of June, registration takes place at the lobby of Chydenia building in Aalto University School of Business.

On 16th-18th of June registration takes place at the registration desk in the main lobby of Grand Marina Congress Center.

Internet connections
See separate instructions provided in the conference bag.

Name Badges
Name badges are provided at the registration. The name badges must be worn at all sessions and social events throughout the conference.

Language
Official language of the conference is English. No simultaneous translation will be provided.
**Local currency**
The local currency is Euro (€). In the city center, money exchange can be found for example from Central Railway Station and from the shopping mall Kamppi.

**Credit cards**
Common credit cards such as Visa, Mastercard, Eurocard, Diners Club and American Express are accepted almost everywhere.

**Transportation**
The city center is within walking distance from the main conference venue. If you want to explore Helsinki further, we would recommend to use public transportation. Within the city center, tram is the most effective way to move around. Single tickets can be bought from the driver. Further information about the tickets and the tram routes can be found from the following link: http://www.hsl.fi/EN/

**Weather**
The weather in mid-June in Helsinki is pleasant, varying from 20-25 Celsius degrees of daily high temperature during the daytime to around 10 Celsius degrees at the night time. Occasional showers and wind from the sea are possible.

**The conference package:**
Your conference package should include the following items:
- This program book
- Name badge
- Vouchers for the Conference Dinner (for those who registered for these events)
- A pen and a notebook

**Information Desk/Conference office**
During the conference you may ask assistance from the student assistants at the registration desk. The conference office during the main conference is located at the Meeting Room 1 of Grand Marina Congress Center (see the maps at the end of the book for rooms)

**Lunches**
- **Pre-conference:** Restaurants Proffa/Rafla in the Main building. Please show your name badge at the cashier to identify yourself as a conference delegate.
- **Main conference:** Restaurant of the Grand Marina Congress Center (2nd floor).

**Coffee Breaks**
During the main conference, coffee is available all the time at the lobby of Congress center. During the scheduled coffee breaks, some light snacks are provided.

**Smoking**
The conference venue is a non-smoking site, smoking is not permitted anywhere inside the building. Smokers should use the designated smoking areas outside the building.

**Toilets**
See the maps given at the end of this program book to see the location of toilets.
Announcements
News, announcements, or last minute changes to the conference program will be posted on the conference website at ewepa.org and on the bulletin board next to the registration desks.

Changes and cancellations to the program
Further requests to change the conference program will not be processed at this juncture as the final program has gone to print. Please inform to the event chair Antti Saastamoinen (antti.saastamoinen@aalto.fi) or the program chair Abolfazl Keshvari (abolfazl.keshvari@aalto.fi) about any last minute cancellations.

Hotel Information
Scandic Grand Marina is the official main conference hotel. The hotel is located right next to the Grand Marina Congress Center.

Scandic Grand Marina
Katajanokanlaituri 7
00160, Helsinki
+358 9 16661
grandmarina@scandichotels.com

Below we have listed the contacts of two hostels that we have recommended and which offer affordable accommodation.

<table>
<thead>
<tr>
<th>Hotel</th>
<th>Street address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Euro Hostel</td>
<td>Linnankatu 9</td>
<td>+358 9 622 0470</td>
</tr>
<tr>
<td>Hostel Academica</td>
<td>Hietaniemenkatu 14</td>
<td>+358 9 1311 4334</td>
</tr>
</tbody>
</table>

Important telephone numbers
General emergency number 112
Helsinki City Tourist Information +358 9 3101 3300
Helsinki-Vantaa Airport Information +358 200 14636
Taxi (Taksi Helsinki) +358 100 0700
SOCIAL EVENTS

The following social events are arranged. Except for the Conference Dinner, all social events are included to the conference fee and thus are free for all conference participants. The name badge is however required for all events. For the Conference Dinner, also the dinner voucher is needed.

Informal Get-together
Date and Time: Monday June 15, 17:30 onwards
Location: Third floor lobby in the Chydenia building of Aalto University School Business

When the academic program ends on Tuesday, the party begins in the hallway. Wine, beverages, and snacks will be served.

A reception/networking event sponsored by the City of Helsinki
Date and Time: Tuesday June 16, 18:00-19:30
Location: Helsinki City Hall, Pohjoisesplanadi 11–13

City Hall is located at Kauppatori (‘Market Square’) and it is within walking distance from the main conference venue. See the location from the maps at the end of this book.

Conference Dinner
Date and Time: Wednesday June 17, 18:30-00:00
Location: Fennia 1 hall, Grand Marina Congress Center

Welcome drinks are served at 18:30 and the dinner itself starts at 19:00. Please have your dinner voucher with you, these will be collected by our student assistants at the registration desk. After the dinner, a cash bar for beverages opens to the second floor lobby of the Congress Center.

Farewell Coffee
Date and Time: Thursday June 18, 15:30-16:00
Location: The first floor hallway of the Congress Center

Informal farewell coffee.
HOW TO READ THE PROGRAM

Each session has been assigned an alphanumeric session code that helps one to see immediately the time, the type of session, and the session room.

The first two letters (capital letter and a lower case letter) indicate the conference day. The third capital letter indicates the session time. The two numbers after a hyphen indicate the parallel session number. The parallel sessions with the same number are always in the same conference room.

<table>
<thead>
<tr>
<th>ThC-03</th>
<th>Parallel Session Number</th>
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</thead>
<tbody>
<tr>
<td>Session Day</td>
<td>Session Time</td>
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</table>

<table>
<thead>
<tr>
<th>Conference days:</th>
<th>Session Time</th>
<th>Parallel Session Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mo: Monday 15</td>
<td>A: (9:00-10:30)</td>
<td>00-09</td>
</tr>
<tr>
<td>Tu: Tuesday 16</td>
<td>B: (11:00-12:30)</td>
<td>If possible, parallel sessions have been numbered such that the same topic has the same number throughout the workshop. Plenaries are numbered as 00.</td>
</tr>
<tr>
<td>We: Wednesday 17</td>
<td>C: (14:00-15:30)</td>
<td></td>
</tr>
<tr>
<td>Th: Thursday 18</td>
<td>D: (16:00-17:30)</td>
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</tbody>
</table>

For co-authored papers, the presenting author is indicated by asterisk *. 
**GUIDELINES FOR SESSIONS**

**SESSION CHAIRS**

As a general rule, the last presenter of each parallel session has been assigned as the session chair, unless otherwise indicated in the conference program. All session chairs should be aware of the session type as the presentation times differ across session type. In general, the session chair should arrive to the conference room at least 15 minutes before the session starts. Note that each room has a laptop for the presentations.

The session chair is responsible for keeping the session on time. For this purpose, the session chairs can show the presenters a card that indicates the remaining presentation time when there is 5 minutes or 1 minute of presentation time left. These cards are provided in the rooms.

The recommended presentation times are the following:

- **Discuss sessions** (3 papers): 20 min presentation + 5 min discussant + 5 min general discussion
- **Explain sessions** (3 papers): 25 min presentation + 5 min general discussion
- **Express sessions** (depending on the number of papers)
  - 5 papers: 15 min presentation + 3 min general discussion
  - 4 papers: 18 min presentation + 4 min general discussion
  - 3 papers: 25 min presentation + 5 min general discussion

In the case of last minute cancellations, the presentation times can be adjusted accordingly. It is recommended to use all the time allocated for the session and not leave gaps in the program.
PRESENTERS
Presenters are kindly asked to adhere to the following general guidelines. Note that each room has a laptop for the presentations.

1. Prepare your presentation to match the session type. Unless otherwise agreed with the session chair, the presentation times are the following:
   - **Discuss sessions** (3 papers): 20 min presentation + 5 min discussant + 5 min general discussion
   - **Explain sessions** (3 papers): 25 min presentation + 5 min general discussion
   - **Express sessions** (depending on the number of papers)
     - 5 papers: 15 min presentation + 3 min general discussion
     - 4 papers: 18 min presentation + 4 min general discussion
     - 3 papers: 25 min presentation + 5 min general discussion

2. Arrive to the conference room at least 15 minutes before your session starts and identify yourself to the session chair. Bring your presentation with you on a memory stick, and keep a copy of the file accessible through the internet (e.g., in your own webmail inbox).

3. Copy your presentation to the desktop of the PC used for presentation.

DISCUSSANTS
Presenters in the Discuss session are expected to discuss one paper if they have been assigned a discussant role in the session program. Please check carefully from the session program which paper you are expected to discuss. If you have not received the paper you are discussant for, please contact the author/presenter directly.

**Some general instructions and tips:** Discussants have approximately 5 minutes to make their comments and questions. Please keep this time. Discussants can use visual aids (e.g., PPT presentation) but this is not mandatory. The discussants are not expected to summarize the paper (this is the job of the author). Present your critical comments in a constructive manner. All authors appreciate comments and questions that can help them to improve their paper. Keep focus on the contribution of the paper and avoid discussion of minor details.
## OVERALL SCHEDULE

<table>
<thead>
<tr>
<th>Time</th>
<th>Track</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
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<tbody>
<tr>
<td>8:30 - 17:00</td>
<td></td>
<td>Registration</td>
<td>Registration</td>
<td>Registration</td>
<td>Registration</td>
</tr>
<tr>
<td>9:00 - 10:30</td>
<td>A</td>
<td>Young researcher workshop</td>
<td>Plenary session 1</td>
<td>Plenary session 2: That's Interesting</td>
<td>Discuss sessions ThA</td>
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<tr>
<td></td>
<td></td>
<td>Software tutorials</td>
<td>TuA</td>
<td>Competition WeA</td>
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<tr>
<td>10:30 - 11:00</td>
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<td>Coffee break</td>
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<td>11:00 - 12:30</td>
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<td>Young researcher workshop</td>
<td>Discuss sessions TuB</td>
<td>Discuss sessions WeB</td>
<td>Express sessions ThB</td>
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<td></td>
<td>Software tutorials</td>
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<tr>
<td>12:30 - 14:00</td>
<td></td>
<td>Lunch break</td>
<td>Lunch break (EWEPA Scientific</td>
<td>Lunch break (JPA Editorial Board lunch</td>
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<td>committee lunch meeting)</td>
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<td>14:00 - 15:30</td>
<td>C</td>
<td>Young researcher workshop</td>
<td>Express sessions TuC</td>
<td>Express sessions WeC</td>
<td>Explain sessions ThC</td>
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<td></td>
<td></td>
<td>Software tutorials</td>
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<tr>
<td>15:30 - 16:00</td>
<td></td>
<td>Coffee break</td>
<td>Coffee break</td>
<td>Coffee break</td>
<td>Farewell coffee</td>
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<tr>
<td>16:00 - 17:30</td>
<td>D</td>
<td>Young researcher workshop</td>
<td>Explain sessions TuD</td>
<td>Explain sessions WeD</td>
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<tr>
<td>17:30-</td>
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<td>Informal get-together at</td>
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<td>Aalto University School of</td>
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<td></td>
<td></td>
<td>Business (Chydenia)</td>
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<tr>
<td>18:00-</td>
<td></td>
<td>Reception at the City Hall</td>
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<tr>
<td>18:30-</td>
<td></td>
<td>Conference Dinner at Grand</td>
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<td></td>
<td></td>
<td>Marina Congress Center</td>
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</table>
## SESSION SCHEDULE - MONDAY

**Young Researcher (YR) Workshop, Software Tutorials**

* Pre-registration required for software tutorials.

<table>
<thead>
<tr>
<th>Time</th>
<th>Young researcher workshop, H324 Stora Enso (Chydenia building)</th>
<th>Software tutorials *</th>
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</thead>
<tbody>
<tr>
<td>8:30 - 17:00</td>
<td>Registration, Lobby</td>
<td></td>
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<tr>
<td>8:50 - 9:00</td>
<td>Opening Remarks</td>
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<tr>
<td>9:00 - 10:30</td>
<td>MoA-01: Inference</td>
<td>MoA-02 Basic R Tutorial</td>
</tr>
<tr>
<td>10:30 - 11:00</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>11:00 - 12:30</td>
<td>MoB-01: Dynamic models 1</td>
<td>Basic R Tutorial (cont.)</td>
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<tr>
<td>12:30 - 14:00</td>
<td>Lunch break (Restaurants Proffa and Rafla in the Main Building)</td>
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<tr>
<td>14:00 - 15:30</td>
<td>MoC-01: Regions and sectors</td>
<td>MoC-02 GAMS Tutorial</td>
</tr>
<tr>
<td>15:30 - 16:00</td>
<td>Coffee break</td>
<td></td>
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<tr>
<td>16:00 - 17:30</td>
<td>MoD-01: Dynamic models 2</td>
<td>GAMS Tutorial (cont.)</td>
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<tr>
<td>Time</td>
<td>Track</td>
<td>Session</td>
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<td>8:30 - 17:30</td>
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<td>Registration</td>
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<td>9:00 - 10:30</td>
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<td>Plenary</td>
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<td>Coffee break</td>
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<td>Session rooms</td>
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<td>11:00 - 12:30</td>
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<td>Discuss</td>
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<td>12:30 - 14:00</td>
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<td>Express</td>
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<td>15:30 - 16:00</td>
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<td>Coffee break</td>
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<tr>
<td>16:00 - 17:30</td>
<td>D</td>
<td>Explain</td>
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# SESSION SCHEDULE - WEDNESDAY

<table>
<thead>
<tr>
<th>Time</th>
<th>Track</th>
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</tr>
</thead>
<tbody>
<tr>
<td>8:30 – 17:30</td>
<td>Registration</td>
<td></td>
</tr>
<tr>
<td>9:00 - 10:30</td>
<td>A Plenary</td>
<td>Plenary Session 2, WeA-01 (Europaea): <em>Aalto That’s Interesting!</em> finalists Daniela Puggioni, Thomas Triebs and Russel Cooper</td>
</tr>
<tr>
<td>10:30 - 11:00</td>
<td>Coffee break</td>
<td></td>
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<tr>
<td></td>
<td><strong>Session rooms</strong></td>
<td></td>
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<tr>
<td></td>
<td>Europaea</td>
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<td>11:00 - 12:30</td>
<td>B Discuss</td>
<td>WeB-01 Banking 4</td>
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<td>12:30 - 14:00</td>
<td>Lunch break</td>
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<td><strong>JPA editorial board meeting (Marine room)</strong></td>
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<td>14:00 - 15:30</td>
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<td>15:30 - 16:00</td>
<td>Coffee break</td>
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<td>16:00 - 17:30</td>
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<td>WeD-01 DEA 3</td>
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### SESSION SCHEDULE – THURSDAY

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<th>Time</th>
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<td>15:30 – 16:00</td>
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**Coffee break**

**Lunch break**

**Farewell coffee**
SESSION PROGRAM

MONDAY 15 June

Note: the presenting author indicated by asterisk *

Opening Remarks
8:50 - 9:00, H-324 Stora Enso

MoA-01: Inference
9:00-10:30, H-324 Stora Enso
Session chair: Christopher Parmeter

Bootstrap-based testing for network DEA:
Some theory and application
Kelly Trinh* and Valentin Zelenyuk
Discussant: Mika Kortelainen

Heterogeneity of inefficiency persistence
under a Bayesian framework
Ioannis Skevas,* Grigorios Emvalomatis and
Bernhard Bruemmer
Discussant: TBA

Non-parametric efficiency estimation using
Richardson-Lucy blind deconvolution
Xiaofeng Dai
Discussant: Christopher Parmeter

MoA-02: Basic R Tutorial
9:00-10:30, C250 Tieto (Main Building)
11:00-12:30, C250 Tieto (Main Building)
Tomasz Czekaj

MoB-01: Dynamic models 1
11:00-12:30, H-324 Stora Enso
Session chair: Andrew Johnson

Nonparametric analysis of dynamic
production with storable and durable input
Laurens Cherchye and Pieter Jan Kerstens*
Discussant: Andrew Johnson

Dynamic stochastic analysis of the farm
subsidy-efficiency link: Theory and evidence
Jean Joseph Minviel* and Timo Sipiläinen
Discussant: TBA

US bank main financial ratios time varying
and size effects: An econometric examination
of inter-temporal stability and proportionality
Richard Simper and Aristeidis Dadoukis* and
Yuzhu Li and Rob Webb and Andrea Pilava
Discussant: TBA

MoC-01: Regions and sectors
14:00-15:30, H-324 Stora Enso
Session chair: Jaap Bos

Financial effects of Chinese import
competition: The case of disappearing IPOs
Jaap Bos, Omar Hassib* and Lu Zhang
Discussant: Thomas Triebs

Scale economies of multi-output public
agencies: An empirical analysis of English and
Welsh local male prisons
Veerle Hennebel, * Richard Simper and Marijn
Verschelde
Discussant: Victor Podinovski

An evaluation of production efficiency of ICT
sectors in the EU: A stochastic frontier
approach to Malmquist productivity index
Jan Mandak
Discussant: Jaap Bos

MoC-02: GAMS Tutorial
14:00-15:30, C250 Tieto (Main Building)
16:00-17:30, C250 Tieto (Main Building)
Andrew Johnson
MoC-03: Advanced R Tutorial
14:00-15:30, G113 (Chydenia Building)
16:00-17:30, G113 (Chydenia Building)
Christopher Parmeter

MoD-01: Dynamic models 2
16:00-17:30, H-324 Stora Enso
Session chair: Kristiaan Kerstens

Environmental growth convergence among Chinese regions
Jean Philippe Boussemart, Hervé Leleu and Zhiyang Shen*
Discussant: Mette Asmild

Measuring the technical efficiency of farms producing environmental output:
Semiparametric estimation of multi-output stochastic ray production frontiers
Tomasz Gerard Czekaj*
Discussant: Daniel Henderson

Measuring the development of efficiency and productivity of banks in the Visegrád group:
An application of CCR model and the Malmquist approach
Lucie Chytilova
Discussant: Kristiaan Kerstens
**TUESDAY 16 June**

**TuA-01: Plenary session 1**
9:00-10:30, Europaea

**Nonparametric smoothing and shape constraints**
Christopher Parmeter
Andrew Johnson

Coffee break

**TuB-01: Banking 1**
11:00-12:30, Europaea
Session chair: Jaap Bos

*Considering favourability indexes as part of the Malmquist index*
Mette Asmild and Kwaku Ohene-Asare*
**Discussant:** Jaap Bos

*Banking on Industry: microeconomic evidence on the impact of financial services on industrial structure and development*
Jaap Bos and Marta Degl'Innocenti*
**Discussant:** Mette Asmild

*A double whammy: Credit chains and idiosyncratic supplier shocks*
Dennis Bams, Jaap Bos* and Magdalena Pisa
**Discussant:** Marta Degl'Innocenti

**TuB-02: Nonparametric models**
11:00-12:30, Fennia I
Session chair: Andrew Johnson

*Penalized shape restricted least squares with an application to productivity analysis*
Abolfazl Keshvari
**Discussant:** Andrew Johnson

*Shape constrained kernel weighted least squares for the estimation of production functions*
Daisuke Yagi* and Andrew Johnson
**Discussant:** Luiza Badin

**TuB-03: Stochastic frontiers 1**
11:00-12:30, Fennia II
Session chair: Subal Kumbhakar

*The validity of statistical inference about unit-specific technical efficiencies in cross-sectional stochastic frontier models: Comparison of Bayesian and classical approaches*
Oleg Badunenko and Yaryna Kolomiytseva*
**Discussant:** Christine Amsler

*Endogeneity in stochastic frontier models*
Christine Amsler, Artem Prokhorov* and Peter Schmidt
**Discussant:** Subal Kumbhakar

*A general error revenue function model with technical inefficiency: An application to Norwegian fishing trawler*
Subal Kumbhakar, Frank Asche, Kristin Roll and Ragnar Tveteras*
**Discussant:** Yaryna Kolomiytseva

**TuB-04: TFP 1**
11:00-12:30, Nordia
Session chair: David Tripe

*Offshoring, biased technical change and the increasing capital share: An analysis of global manufacturing production*
Marcel Timmer and Xianjia Ye*
**Discussant:** Thanh Ngo
The innovative input mix: Assessing the importance of R&D and ICT investments for firm performance in manufacturing and services
Marina Rybalka
**Discussant:** Xianjia Ye

Nonparametric Fisher total factor productivity index using shadow prices: panel vs. time series data
Thanh Ngo* and David Tripe
**Discussant:** Marina Rybalka

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**TuB-05: Energy 1**
**11:00-12:30, Nautica**
Session chair: Mette Bjørndal

Operational conditions in regulatory benchmarking models - A Monte Carlo simulation study
Maria Nieswand and Stefan Seifert*
**Discussant:** Mark Andor

SFA quasi-likelihood: A new stochastic frontier estimation method
Mark Andor
**Discussant:** Astrid Cullmann

Challenged, or just inefficient? Compensating for exogenous cost drivers in the regulation of electricity networks
Endre Bjørndal, Mette Bjørndal, Astrid Cullmann, and Maria Nieswand
**Discussant:** Maria Nieswand

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**TuB-06: Agriculture 1**
**11:00-12:30, Press room**
Session chair: Magdalena Kapelko

Estimating the economic value of symbiotic nitrogen: A distance function approach
Robertson Khataza,* Atakelty Hailu, Graeme Doole and Marit Kragt

Bayesian analysis of productivity growth of Polish dairy farms
Kamil Makiela, Jerzy Marzec and Andrzej Pisulewski*

Dynamic input-specific productivity change: measurement and application to European dairy manufacturing firms
Magdalena Kapelko,* Alfons Oude Lansink and Spiro Stefanou

Lunch break

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**TuC-01: Banking 2**
**14:00-15:30, Europaea**
Session chair: Paul Rouse

Sources of productivity growth in Indonesian banks: An empirical analysis during 1993 – 2011
Felisitas Defung

Efficiency and risk in the banking industry: Evidence from Southeast Europe
Bashkim Nurboja

How many and what to include: Re-evaluating the Z environmental variables in an SFA cross country banking model
Richard Simper,* Aristeidis Dadoukis, Yuzhu Li and Rob Webb

How do we know what the right price is (and does it matter)?
Paul Rouse* and David Tripe

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**TuC-02: Production theory**
**14:00-15:30, Fennia I**
Session chair: Kristiaan Kerstens

Choice of technology which generates normalized CES production function
Andrei Matveenko and Vladimir Matveenko*

Multiplicative duality theory in production economics
Walter Briec and Paola Ravelojaona*

Frontier metatechnologies and convexity: A restatement
Kristiaan Kerstens,* Christopher O’Donnell and Ignace Van de Woestyne
TuC-03: Stochastic frontiers 2
14:00-15:30, Fennia II
Session chair: Jos Blank

Assessing substitutability among undesirable outputs using parametric directional output distance function: A Monte Carlo analysis
Viktor Khazhyn

The assimilation of young workers into the labour market in France: A stochastic frontier approach
Stephen Bazen and Khalid Maman Waziri*

The scaling property and the use of a system of equations approach: An application to Dutch secondary education
Jos Blank*

TuC-04: TFP 2
14:00-15:30, Nordia
Session chair: Nicky Rogge

Effects of imports on technical efficiency in Russian food industry
Yevhenii Shchetynin

The dynamics of total factor productivity and its components: Russian plastic production
Irina Ipatova

Relation between determinants of total factor productivity and stock returns
Matthieu Belarouci

Benchmarking EU social inclusion and poverty policies in the period 2005 – 2012
Nicky Rogge

TuC-05: Energy 2: Regulation
14:00-15:30, Nautica
Session chair: Roar Amundsveen

Comments on the Brazilian benchmarking model for energy distribution regulation - Fourth cycle of tariff review (2015-2018)
Peter Bogetoft and Ana Lopes*

Application of the StoNED method in the regulation of electricity distribution operators in Finland: The regulator’s perspective
Matti Ilonen

Economies of vertical integration and efficient electricity markets
Roar Amundsveen and Hilde Marit Kvile*

TuC-06: Agriculture 2
14:00-15:30, Press room
Session chair: Tomasz Czekaj

Scale efficiency of farms with different systems of rearing pigs
Elzbieta Jadwiga Szyman ska

Addressing technical efficiency and technology heterogeneity in the Irish cattle sector: Exploring the effects of the Single Farm Payment on different cattle farm types
Maria Martinez-Cillero,* James Breen, Fiona Thorne, Thia Hennessy and Michael Wallace

Determinants of MD2* adoption, production efficiency and technology gaps in the Ghanaian pineapple production sector
Amos Mensah* and Bernhard Brümmer

A meta-frontier approach for causal inference in productivity analysis: The effect of contract farming on sunflower productivity in Tanzania
Arne Henningsen, Daniel Mpeta, Anwar Adem, Joseph Kuzilwa and Tomasz Czekaj

Coffee break
Managerial efficiency under centralized management - A dynamic approach with an empirical illustration to German saving banks
Mohsen Afsharian* and Heinz Ahn

Bank branch operational performance: A robust and fuzzy clustering approach
Oscar Herrera-Restrepo and Kostas Triantis* and William Seaver and Joseph Paradi

Sources of returns to scale of U.S. banks: Cost, revenue, and profit
David Wheelock and Paul Wilson*

TuD-02: DEA 1
16:00-17:30, Fennia I
Session chair: Jesus Pastor

Output-specific inputs in DEA
Maria Portela

Performance evaluation of the public employment services in Finland
Juha Eskelinen* and Abolfazl Keshvari

An enhanced BAM for unbounded or partially bounded CRS additive models
Jesus Pastor,* Juan Aparicio, Javier Alcaraz, Fernando Vidal, Diego Pastor and Juan Monge

TuD-03: Stochastic frontiers 3
16:00-17:30, Fennia II
Session chair: Peter Schmidt

Do direction, normalization and the Jacobian matter in the productivity measurements based on the directional output distance function?
Mike Tsionas, Emir Malikov and Subal Kumbhakar*

Stochastic metafrontiers
Christine Amsler,* Christopher O’Donnell and Peter Schmidt

Distinguishing heterogeneity and inefficiency in a panel data stochastic frontier model

TuD-04: TFP 3
16:00-17:30, Nordia
Session chair: Bert Balk

Productivity and efficiency in the handbook of input-output analysis
Thijs ten Raa

A novel approach to the aggregation of economic productivity indices
Bert Balk

TuD-05: Energy 3
16:00-17:30, Nautica
Session chair: Gerald Granderson

Energy efficiency and the economy-wide rebound effect: A computable general equilibrium analysis for Spain
Pablo Arocena* and Antonio Gómez-Plana and Sofía Peña

A decomposition of the aggregate energy intensity change of Spanish manufacturing industry
Pablo Arocena and Antonio Gómez-Plana and Sofía Peña*

Impact of the 1990 Clean Air Act, and ISO membership, on production cost and efficiency in the electric utility industry
Gerald Granderson and Finn Forsund

TuD-06: Education 1
16:00-17:30, Press room
Session chair: Jose Dula

A unified productivity-performance approach applied to secondary schools in the Netherlands
Laurens Cherchye, Kristof De Witte and Sergio Perelman*
Assessing the multidimensional performance of universities: Overcoming rankings with conditional efficiency analysis
Cinzia Daraio,* Andrea Bonaccorsi and Leopold Simar

Lessons learned from DEA applied to university rankings
M.-L. Bougnol and Jose Dula*
**WEDNESDAY 17 June**

**WeA-01: Plenary session 2**  
9:00-10:30, Europaea

**Finalists of Aalto "That's Interesting!" award**

*The value of being socially responsible: A DEA approach for recovering shadow prices of CSR activities in the food manufacturing sector*
Daniela Puggioni* and Spiro Stefanou

*Management in production: From unobserved to observed*
Thomas Triebs* and Subal Kumbhakar

*The productivity of the internet from the perspective of households*
Russel Cooper

**Discussants:** Jaap Bos, Victor Podinovski and Timo Kuosmanen

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**Coffee break**

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**WeB-01: Banking 4**  
11:00-12:30, Europaea

**Session chair:** Mette Asmild

*A global house of debt effect? Mortgages and post-crisis recessions in fifty economies*
Lu Zhang* and Dirk Bezemer

**Discussant:** Tsu-Tan Fu

*Performance evaluation of Taiwan banking industry with the consideration of corporate governance and risk management*
Tsu-Tan Fu

**Discussant:** Mette Asmild

*Inefficiency patterns amongst different types, and generations, of Bangladeshi bank*
Mette Asmild, * Dorte Kronborg and Kent Matthews

**Discussant:** Lu Zhang

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**WeB-02: DEA 2**  
11:00-12:30, Fennia I

**Session chair:** Marijn Verschelde

*The moments bootstrap: An alternative to smooth bootstrap DEA*
Panagiotis Tziogkidis

**Discussant:** Marijn Verschelde

*Ranking with a Euclidean common set of weights in data envelopment analysis: With application to the NZ banking sector*
Thanh Ngo and David Tripe*

**Discussant:** Panagiotis Tziogkidis

*Nonparametric analysis of multi-product firms with unobserved technological heterogeneity*
Laurens Cherchye, Thomas Demuynck, Bram De Rock and Marijn Verschelde*

**Discussant:** David Tripe

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**WeB-04: Health care 1**  
11:00-12:30, Nordia

**Session chair:** Katharina Schley

*An evaluation of technical efficiency in the nursing home sector in Ireland*
Shiovan Ni Luasa,* Declan Dineen and Marta Zieba

**Discussant:** Ana Rodríguez Álvarez

*By estimating the cost of reducing the waiting lists: A new approach*
Ana González Vidales and Ana Rodríguez Álvarez*

**Discussant:** Shiovan Ni Luasa

*Health care efficiency differences in German districts*
Helmut Herwartz and Katharina Schley*

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**WeB-05: Energy 4**  
11:00-12:30, Nautica

**Session chair:** Endre Bjørndal

*An evaluation of technical efficiency in the nursing home sector in Ireland*
Shiovan Ni Luasa,* Declan Dineen and Marta Zieba

**Discussant:** Ana Rodríguez Álvarez

*By estimating the cost of reducing the waiting lists: A new approach*
Ana González Vidales and Ana Rodríguez Álvarez*

**Discussant:** Shiovan Ni Luasa

*Health care efficiency differences in German districts*
Helmut Herwartz and Katharina Schley*

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*Discussants: Jaap Bos, Victor Podinovski and Timo Kuosmanen*
Cluster analysis for energy distribution benchmarking: the 2014 Brazilian case
Marcelo Costa,* Aline Veronese and Ana Lopes
Discussant: Antti Saastamoinen

Merger gains in the Norwegian electricity distribution industry
Antti Saastamoinen,* Endre Bjørndal and Mette Bjørndal
Discussant: Ana Lopes

Malmquist productivity analysis based on StoNED: The case of Norwegian electricity distribution companies
Xiaomei Cheng,* Endre Bjørndal and Mette Bjørndal
Discussant: Marcelo Costa

WeB-06: Education 2
11:00-12:30, Press room
Session chair: Sverre Kittelsen

Quality of upper secondary schools in Finland: evaluating persistent and non-persistent differences in value-added
Mika Kortelainen,* Heikki Pursiainen and Jenni Pääkkönen
Discussant: Sverre Kittelsen

Environmental influences on academic performance: Evidence from Colombian higher education institutions
Ligia Melo and Jorge Ramos
Discussant: Mika Kortelainen

Productivity of Norwegian institutions of higher education 2004 – 2013
Dag Fjeld Edvardsen, Finn Førsund and Sverre Kittelsen*
Discussant: Jorge Ramos

WeB-07: Stochastic frontiers 4
11:00-12:30, Baltica
Session chair: Daniel Wikström

The non-linear input-output model with time varying random coefficients: Evidence for the US economy
Panayotis Michaelides,* Efthymios Tsonias and Konstantinos Konstantakis

A two-tier stochastic frontier model with correction for sample selection
Hung-pin Lai

A stochastic frontier model with discrete inefficiency
Aljar Meesters

Modified fixed effects estimation of technical inefficiency
Daniel Wikström

Lunch break

WeC-01: Environment 1
14:00-15:30, Europaea
Session chair: Alan Wall

Dynamic eco-efficiency under the by-production of undesirable output
Hervé Dakpo* and Alfons Oude Lansink

Reconcilableness of environment and income - An environmental efficiency analysis of smallholder palm oil and rubber producers
Mareike Holtkamp* and Bernhard Brümmer

Estimating the materials balance condition: A stochastic frontier approach
Benjamin Hampf*

Eco-efficiency using a stochastic frontier approach with applications to dairy farming
José Antonio Pérez, Luis Orea, David Roibás and Alan Wall*

WeC-04: Health care 2
14:00-15:30, Nordia
Session chair: Michael Vardanyan
Testing gender differences in productivity: an application to Spanish hospitals
Maria Perez-Villadoniga,* Ana Rodriguez-Alvarez and David Roibas

The efficiency of health expenditure: Comparison of European countries
Mária Grausová, Miroslav Hužvár* and Jana Štrangfeldová

A directional distance function approach for identifying the input/output status of medical residents
Gary Ferrier, Hervé Leleu, Vivian Valdmanis and Michael Vardanyan*

WeC-05: Energy 5
14:00-15:30, Nautica
Session chair: Heike Wetzel

The use of composite indicators to evaluate the performance of Brazilian hydropower plants
Ana Camanho,* Andrea Zanella and Felipe Calabria

Efficiency of wind power production and its determinants
Simone Pieralli,* Matthias Ritter and Martin Odening

Carbon-decreasing developments among new competitors: Gas- and coal-fired plants in the US power sector
Christian Growitsch, Simon Paulus and Heike Wetzel*

WeC-06: Education 3
14:00-15:30, Press room
Session chair: Claudio Thieme

What can be learned from efficiency in sports to rank schools?
Julio del Corral

Locus of decision-making and the efficiency of the education sector
Marie Le Mouel,* Alexander Schiersch and Martin Gornig

Exploring cross-country differences in the efficiency of schools: A conditional nonparametric approach
Jose Cordero,* Cristina Polo, Daniel Santin and Rosa Simancas

An educational value added method using weight restrictions and nonparametric frontier techniques
Claudio Thieme,* Diego Prior, Emili Tortosa-Ausina and René Gempp

WeC-07: Banking 5
14:00-15:30, Baltica
Session chair: Stefania Rossi

The performance evaluation on the efficiency and productivity change of securities industry in China
Mei-Ying Huang* and Jun-Wey Fan

What drives performance among Tanzanian savings and credit cooperatives? Multiple case study approach
Nyankomo Marwa and Meshach Aziakpono

Does ownership always matter? Evidence from the Indian banking
Ram Mohan* and Ganesh Radhakrishnan

Credit crunch, gender discrimination and social capital: An empirical investigation on the European countries
Emma Galli and Stefania Rossi*

Coffee break

WeD-01: DEA 3
16:00-17:30, Europaea
Session chair: Victor Podinovski
Measuring input-specific productivity change through a Luenberger indicator based on the principle of least action
Juan Aparicio, Magdalena Kapelko, Bernhard Mahlberg* and Jose Sainz-Pardo

Interval scale data in the BoD model
Roxani Karagiannis* and Giannis Karagiannis

Consistent weight restrictions and production trade-offs in DEA
Victor Podinovski and Tatiana Bouzdine-Chameeva

WeD-04: Stochastic frontiers 5
16:00-17:30, Nordia
Session chair: Leopold Simar

Consistent weight restrictions and production trade-offs in DEA
Victor Podinovski and Tatiana Bouzdine-Chameeva

WeD-05: Energy 6
16:00-17:30, Nautica
Session chair: William Greene

Yardstick regulation of electricity distribution – Disentangling short-run and long-run inefficiency
Subal Kumbhakar and Gudbrand Lien*

Persistent and transient productive inefficiency of the New Zealand electricity distribution companies
Massimo Filippini and William Greene*

WeD-06: Education 4
16:00-17:30, Press room
Session chair: Jill Johnes

Efficiency in education: A review of literature and a way forward
Kristof De Witte* and Laura Lopez-Torres

The three i’s of public schools: Irrelevant inputs, insufficient resources and inefficiency
Daniel Henderson,* Leopold Simar and Le Wang

University mergers in England: An analysis of efficiency effects using Bayesian methods
Jill Johnes* and Mike Tsionas

WeD-07: Decision making 1
16:00-17:30, Baltica
Session chair: Jef Van Meensel

The effect of manager’s risk preference and bank consolidation on risk diversification in U.S.
Ming-Hsiang Huang,* Hsiu-Wen Hsueh, Tsui-Yueh Cho and Yung-Lieh Yang

Inefficiency and risk taking behavior in Spanish banking
Maria García-Alcober, Emili Tortosa-Ausina, Diego Prior* and Manuel Illueca

Marrying frontier analysis-based benchmarking and user-tailored decision support
Jef Van Meensel* and Ludwig Lauwers
THURSDAY 18 June

ThA-01: Banking 6
9:00-10:30, Europaea
Session chair: Emili Grifell-Tatjé

Evaluating private pension funds using data envelopment analysis considering the effect of regulations and experts’ judgments
Maryam Badrizadeh* and Joseph Paradi

A cost efficiency analysis of the Insurance Industry in Mexico
Ana María Reyna* and Hugo Fuentes
Discussant: Jonathan Calleja-Blanco

Downsizing effects on the financial performance of European automobile production plants
Jonathan Calleja-Blanco* and Emili Grifell-Tatjé
Discussant: Ana Maria Reyna

ThA-03: Well-being
9:00-10:30, Fennia II
Session chair: Chiara Peroni

Part-time work and firm productivity: Evidence from Italy
Francesco Devicienti, Elena Grinza* and Davide Vannoni
Discussant: Chiara Peroni

Measuring of quality of life in Turkey provinces
Halil Tunca
Discussant: Elena Grinza

Making wellbeing productive: A network DEA framework
Charle-Henri Dimaria, Chiara Peroni* and Francesco Sarracino
Discussant: Halil Tunca

ThA-04: TFP 4
9:00-10:30, Nordia
Session chair: Elina Berghäll

Cross-country income differences revisited: accounting for the role of intangible capital
Wen Chen
Discussant: Marianna Papakonstantinou

Composition of human capital, distance to the frontier and productivity
Marianna Papakonstantinou*
Discussant: Elina Berghäll

FDI and the world technology frontier
Elina Berghäll
Discussant: Wen Chen

ThA-05: Energy 7
9:00-10:30, Nautica
Session chair: Humberto Brea-Solis

Tariff regulation of electricity distribution: A comparative analysis of regulatory benchmarking models
Ana Lopes and Roberto Mesquita*
Discussant: Humberto Brea-Solis

Bayesian mapping methods applied to the 2014 Brazilian energy distribution benchmarking models: accounting for unobserved local determinants of inefficiency
Guilherme Gil, Marcelo Costa* and Ana Lopes
Discussant: Humberto Brea-Solis

The twilight zone between latent class modelling and outlier detection: A caveat for the regulatory use of frontier analysis
Per Agrell and Humberto Brea-Solis*
Discussant: Marcelo Costa

ThA-06: Agriculture 3
9:00-10:30, Press room
Session chair: Alfons Oude Lansink
Climatic variability and adaptation in U.S. agriculture
Eric Njuki and Boris Bravo-Ureta
Discussant: Alfons Oude Lansink

Decomposing profit change: A Fisher-based approach applied to Finnish farms
Xavier Irz* and Timo Sipiläinen
Discussant: Boris Bravo-Ureta

Dynamic profit inefficiency: A DEA application to Belgian dairy farms
Frederic Ang and Alfons Oude Lansink*
Discussant: Xavier Irz

ThA-07: DEA 4
9:00-10:30, Baltica
Session chair: Michaela Staníèková

Two decades of data envelopment analysis applied to the transport sector: A bibliometric analysis
Laurent Cavaignac and Romain Petiot
Discussant: Michaela Staníèková

Application of the nonparametric DEA metafrontier approach to compare technology gaps and environmental efficiency technology gaps among European regions
Jana Hanèlová, Lukáš Melecký* and Michaela Staníèková
Discussant: Romain Petiot

Context-dependent DEA approach: Performance catching up among European EU28 NUTS 2 regions
Michaela Staníèková* and Lukáš Melecký and Jana Hanèlová
Discussant: Laurent Cavaignac

Coffee break

ThB-01: Stochastic frontiers 6
11:00-12:30, Europaea
Session chair: Robin Sickles

Importing scale efficiencies from public-private collaboration in household waste collection
J.A. Wilschut,* H. de Groot, Thomas Niaounakis and Jos Blank

Importing scale efficiencies through municipality collaboration. An application of the one-step approach to Dutch municipality taxes
Thomas Niaounakis* and Jos Blank

Returns to scale and curvature in the presence of spillovers: Evidence from European countries
Anthony Glass, Karligash Kenjegaliieva* and Robin Sickles

ThB-02: DEA 5
11:00-12:30, Fennia I
Session chair: John Walden

The orientation of DEA models with dual-role factors
Wen-Chih Chen

A DEA-based approach to evaluate the efficiency in the performing arts: Focus on German and Italian opera houses
Andrea Baldin* and Stefania Funari

Economic measures of capacity utilization: A nonparametric cost function analysis
Subhash Ray and John Walden*

ThB-03: Environment 2
11:00-12:30, Fennia II
Session chair: Fabrizio Erbetta

Sustainable Directions
Frederic Ang,* Simon Mortimer, Francisco Areal and Richard Tiffin

Measuring social welfare and drivers of its change
Martin Lábaj, Mikuláš Luptáèik and Eduard Nežinsky*
Marginal CO2 abatement costs: Findings from alternative shadow price estimates for Shanghai industrial sectors
Xun Zhou

Business innovation and waste management sustainability: the case of door-to-door collection
Graziano Abrate, Clementina Bruno, Fabrizio Erbetta,* and Giovanni Fraquelli

ThB-04: TFP 5
11:00-12:30, Nordia
Session chair: Doreen Cerny

Price-setting with unobservable elasticities of demand: The business-cycle effects of heterogeneous expectations
Christian Jensen

Productivity, structural change and informality: the case of Russia
Ilya Voskoboynikov and Vladimir Gimpelson

The sources of economic growth in Sub-Saharan African countries
Nosratollah Nafar

Productivity versus self-regulation - An empirical analysis on paradoxes in teaching profession
Doreen Cerny

ThB-05: Energy 8
11:00-12:30, Nautica
Session chair: Manuel Llorca

Analyzing efficiency of biogas plants in Austria using data envelopment analysis
Andreas Eder,* Günther Bochmann and Bernhard Mahlberg

Estimation of efficiency levels in electricity consumption by Swiss households: A Stochastic frontier approach
Nina Boogen,* Souvik Datta and Massimo Filippini

A new approach to measuring the rebound effect associated to energy efficiency improvements: An application to the US residential energy demand
Luis Orea, Manuel Llorca*, and Massimo Filippini

ThB-06: Agriculture 4
11:00-12:30, Press room
Session chair: Alan Wall

Trade reform and technical efficiency in the Indonesian food industry
Bernadetta Dwi Suatmi* and Ruhul Salim and Harry Bloch

Inefficient or just different? Accounting for heterogeneity in small-scale rice production using latent class stochastic frontier models
R. Owusu* and Atakelty Hailu

Production potential, heterogeneous technology and productivity: The case of Hungarian crop producing farms
Lajos Baráth* and Heinrich Hockmann

The effects of forage crop mix on the efficiency and quality of milk production
Luis Orea, Jose Perez, David Roibas* and Alan Wall

Lunch break

ThC-01: Stochastic frontiers 7
14:00-15:30, Europaea
Session chair: Phill Wheat

Nonparametric least squares methods for stochastic frontier models
Leopold Simar and Ingrid Van Keilegom and Valentin Zelenyuk*

A Stochastic frontier model with endogenous treatment status and mediator
Yi-Ting Chen and Yu-Chin Hsu and Hung-Jen Wang*
Uncertainty in efficiency predictions in common panel data stochastic frontier models  
Phill Wheat*

Cross-country difference in evaluations of socioeconomic conditions: A life satisfaction approach  
Hideyuki Mizobuchi,* Jue Yang and Shunsuke Managi

On aggregating cross efficiencies  
Giannis Karagiannis*

Identifying the scope for savings at inpatient episode level: An illustration applying DEA to chronic obstructive pulmonary disease  
Emmanuel Thanassoulis*, Maria Portela, and Mike Graveney

Two-stage processes and an evaluation of their efficiencies with a multiple objective DEA model  
Mahdi Mahdiloo*, Abdol Hossein Jafarzadeh, Abdollah Noorizadeh, Reza Farzipoor Saen and Peter Tatham

A multiple criteria data envelopment analysis approach to two-stage processes  
Adel Hatami-Marbini and Mehdi Toloo

Non-convex value efficiency analysis  
Pekka Korhonen*, Merja Halme, and Juha Eskelinen

Capital structure and ownership in regulated electricity distribution  
Astrid Cullmann, Maria Nieswand and Stefan Seifert

Estimating market power in homogenous product markets using a composed error model: application to the California electricity market  
Luis Orea* and Jevgenijs Steinbuks

Defining low input dairy farms across European countries: a frontier approach  
J. Hamerlinck, J. Van Meensel, J. Bijnnebier, S. Moakes, J. Buysse, and L. Lauwers*

Land problems and efficiency in Salvadoran agriculture: A state-contingent approach  
Boris Bravo-Ureta, María Pérez-Urdiales, and Alan Wall

Maize productivity and input subsidies in Malawi: A state-contingent stochastic production frontier approach  
S.T. Holden and Christopher O'Donnell*

Farewell coffee
MAPS
Important Locations – Overall Map

- Grand Marina Congress Center
- Central Railway Station
- City Hall
- Aalto University School of Business – Main building
- Aalto University School of Business – Chydenia building
Directions – Grand Marina Congress Center
Easiest way to get to the conference location is to use tram 4 or 4T. The closest stop is called “Kauppiaankatu”. The trams 4 and 4T can be taken from the Mannerheimintie close to Railway station.

1) From Central Railway Station, go to stop Lasipalatsi to take either tram 4 or 4T towards Katajanokka.

2) Get off on the stop “Kauppiaankatu.”
Directions – Aalto University School of Business; Chydenia building

The Chydenia building is easily reached from Railway Station with tram 2 towards Töölö. Tram 2 can be taken directly in front of Railway Station from the stop “Rautatieasema”. The closest stop to Chydenia building is “Sammonkatu” the next stop from “Kauppakorkeakoulut” stop that is the main stop for Business School.
Grand Marina Congress Center – Indoors Map
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