



INTERNATIONAL DATA ENVELOPMENT ANALYSIS SOCIETY

CONFERENCE PROGRAM

Friday, July 10		Alter Hall
8:30-10:00	<p>Welcome Remarks: Rajiv Banker (Temple University, U.S.A.)</p> <p>Tutorial: Conceptual Foundations of DEA Presenters: Subhash Ray (University of Connecticut, U.S.A.) Rajiv Banker (Temple University, U.S.A.)</p>	7th Floor Commons
10:00-10:50	<p>Tutorial: DEA Programming with Excel Solver Presenters: Subhash Ray and Lei Chen (University of Connecticut, U.S.A.)</p>	Room 746
	<p>Systems and Efficiency Chair: Mikuláš Luptáčík (Vienna University of Economics and Business, Austria)</p> <p>Title: Measuring Efficiency of European Metros Presenter: Rui Marques (Technical University of Lisbon, Portugal) Coauthors: Joana Santos , Álvaro Costa, Pedro Simões</p> <p>Title: Efficiency Analysis of a Multisectoral Economic System Presenter: Mikuláš Luptáčík (Vienna University of Economics and Business, Austria) Coauthor: Bernhard Bohm</p>	Room 745
10:50-11:10	Break	
11:10-12:00	<p>Health Care Productivity Chair: Jon Chilingerian (Brandeis University, U.S.A.)</p> <p>Title: A Multiple Stage Approach for Performance Improvement of Primary Care Practice Presenter: Martha Ramírez-Valdivia (Universidad de La Frontera and Pontificia Universidad Católica de Chile, Chile) Coauthor: Sergio Maturana, Jaime Bustos</p> <p>Title: Using Data Envelopment Analysis to Analyze Cardiac Surgeon Performance: A Ten Year Study Presenter: Jon Chilingerian (Brandeis University, U.S.A.) Coauthor: Mitchell Glavin</p>	Room 746
	<p>Efficiency Analysis of Industries Chair: Said Al Muharrami (Sultan Qaboos University, Oman)</p> <p>Title: Technical Efficiency in the Basic Industry Listed on Indonesia Stock Exchange (IDX): DEA and SFA Approaches Presenter: T. Handono Eko Probowo (Sanata Dharma University, Yogyakarta, Indonesia)</p>	Room 745

	<p>Title: Analyzing the Impact of Mergers and Acquisition on the Technical Efficiency of Commercial Banks in Gulf Cooperation Council (GCC) Presenter: Said Al Muharrami (Sultan Qaboos University, Oman) Coauthor: Said Gattoufi</p>	
12:00-1:00	Lunch	7th Floor Commons
1: 00-1:50	<p>Managerial Decision Making Chair: Paul Klumpes (Imperial College London, U.K.)</p> <p>Title: Incorporating Ratios in DEA: Applications to Real Data Presenter: Sanaz Sigaroudi (University of Toronto, Canada) Coauthor: Joseph Paradi (University of Toronto, Canada)</p> <p>Title: Experience and Learning in Investment Decision Making Presenter: Paul Klumpes (Imperial College London, U.K.)</p>	Room 746
	<p>Manufacturing Efficiency Chair: Guy Fernando (University at Albany, U.S.A.)</p> <p>Title: Cost Efficiency and Scale of Economies in the U.S. Manufacturing Industry: A Nonparametric Method of Data Envelopment Analysis Presenter: Lei Chen (University of Connecticut, U.S.A.)</p> <p>Title: Productivity Spillovers Along the Supply Chain Presenter: Guy Fernando (University at Albany, U.S.A.) Coauthor: Hsihui Chang (Drexel University, U.S.A.), Arindam Tripathy</p>	Room 745
2:00-3:30	<p>Innauguration: Dean M. Moshe Porat (Temple University, U.S.A.)</p> <p>Keynote Speech Robert Latoff, Senior Director, McKinsey & Co., U.S.A. Topic: Industry Cost Curves</p>	7th Floor Commons
3:30-3:50	Break	
3:50-5:10	<p>Returns to Scale Chair: Finn Forsund (University of Oslo, Norway)</p> <p>Title: Categorical and Ambiguous Characterization of Returns to Scale Properties of Observed Input-Output Bundles in Data Envelopment Analysis Presenter: Subhash Ray (University of Connecticut, U.S.A.)</p> <p>Title: Statistical Tests of Returns to Scale Using DEA Presenter: Hsihui Chang (Drexel University, U.S.A.) Coauthors: Rajiv Banker (Temple University, U.S.A.), Shih-Chi Chang</p> <p>Title: Some Additional Theorems on Returns to Scale in DEA Models</p>	Room 746

	<p>Presenter: Finn Forsund (University of Oslo, Norway) Coauthor: Vladimir Krivonozhko (Institute for Systems Analysis, Russia)</p> <p>Agricultural and Electric Power Productivity Room 745 Chair: Geraldo Souza (Brazilian Agricultural Research Corporation, Brazil)</p> <p>Title: An Efficiency Approach for Analyzing the Major Agricultural Economies Presenter: Tito Moreira (Catholic University of Brasilia, Brazil) Coauthors: Geraldo Souza (Brazilian Agricultural Research Corporation, Brazil), Eliane Gomes</p> <p>Title: Comparative Study of the Efficiency of the Brazilian Hydroelectric Power Plants Using Data Envelopment Analysis Presenter: Eduardo Camara (Companhia Hidroeletrica do Sao Francisco, Brazil) Coauthor: Francisco Ramos</p> <p>Title: Electricity Generation Efficiency Measures: Fixed Proportion Technology Indicators Presenter: Darold Barnum (University of Illinois at Chicago, U.S.A.) Coauthor: John Gleason</p>
5:15-6:45	<p>Reception 7th Floor Commons Video welcome from Professor William W. Cooper</p>
Saturday, July 11 Alter Hall	
8:30-9:50	<p>Professional Services Industries Room 746 Chair: Iny Hwang (Drexel University, U.S.A.)</p> <p>Title: Efficiency Analysis of Professional Basketball Players Presenter: Feng Bai (City University of Hong Kong, China) Coauthor: Kim Fung Lam</p> <p>Title: Determinants of Efficiency of Law Firms Presenter: Eunyoung Whang (Temple University, U.S.A.) Coauthors: Rajiv Banker, Marina Angel (Temple University, U.S.A.)</p> <p>Title: Returns to Scale in Public Accounting Firms Presenter: Iny Hwang (Drexel University, U.S.A.) Coauthors: Hsihui Chang, Helen Choy (Drexel University, U.S.A.)</p> <p>Electricity Generation and Distribution Room 745 Chair: Marcos Estellita Lins (Federal University of Rio de Janeiro, Brazil)</p> <p>Title: Temporal Performance of Electricity Distribution in Brazil Presenter: Marcos Estellita Lins (Federal University of Rio de Janeiro, Brazil) Coauthor: Maria Karla Vervloet Sollero, Angela Cristina Moreira da Silva</p> <p>Title: Service Quality Regulation in Electricity Distribution</p>

	<p>Presenter: Orçun Senyücel (Turkish Competition Authority, Turkey) Coauthor: Necmiddin Bagdadioglu</p> <p>Title: Efficiency of Independent Power Producers: A Fuzzy DEA Approach Presenter: Rene Olamit (University of Santo Tomas, Philippines) Coauthor: Emilyn Cabanda (Regent University, U.S.A.)</p>
9:50-10:10	Break
10:10-11:30	<p>Banking Sector Room 746</p> <p>Chair: Andreas Burger (Frankfurt School of Finance & Management, Germany)</p> <p>Title: Impact of Alternative Service Channels on Bank Efficiency Presenter: Fang-Chun Liu (Temple University, U.S.A.) Coauthors: Rajiv Banker (Temple University, U.S.A.), Pei-Yu Chen, Chin-Shyh Ou</p> <p>Title: Performance Analysis on Process Level with DEA – Benchmarking of Transactions in Banking Presenter: Andreas Burger (Frankfurt School of Finance & Management, Germany) Coauthor: Jürgen Moormann</p> <p>Title: Efficiency and Productivity Analysis of Bank Branches: The Case of Large Ukrainian Banks Presenter: Anatoliy Pilyavskyy (Lviv Academy of Commerce, Ukraine) Coauthors: William Aaronson (Temple University, U.S.A.), Yuriy Matsiv</p> <p>Public Sector Room 745</p> <p>Chair: Daniel Becker (University of Rostock, Germany)</p> <p>Title: Technical Efficiency of Employment Offices in Tunisia Presenter: Wajdi Kthiri (University of Economics and Management Sciences of Sfax, Tunisia) Coauthors: Younes Boujelbene, Nejib Ouertani</p> <p>Title: How Efficient are Brazilian Courts? Answering It with DEA Presenter: Luciana Luk-Tai Yeung (Fundacao Getulio Vargas and Insper IBMEC, Sao Paolo, Brazil) Coauthor: Paulo Furquim Azevedo</p> <p>Title: Public-Sector Efficiency and Interjurisdictional Competition: An Empirical Investigation Presenter: Daniel Becker (University of Rostock, Germany)</p>
11:35-12:25	<p>Managing Banks Room 746</p> <p>Chair: Joseph Paradi (University of Toronto, Canada)</p> <p>Title: Using DEA to Investigate Bank Safety and Soundness: Which Approach Works Best? Presenter: David Tripe (Massey University, New Zealand)</p> <p>Title: Identifying Management Groups in a Large Canadian Bank Branch Network with DEA Approach</p>

	<p>Presenter: Haiyan Zhu (University of Toronto, Canada) Coauthors: Joseph Paradi (University of Toronto, Canada), Barak Edelstein</p> <p>Some Old; Some New Room 745 Chair: Ali Emrouznejad (Aston University, U.K.)</p> <p>Title: Performance Analysis of Basic Research over Time: A Malmquist Approach Presenter: Daqun Zhang (Chinese Academy of Sciences, China) Coauthors: Xiaoxuan Li, Rajiv Banker (Temple University, U.S.A.), Wenbin Liu</p> <p>Title: Data Envelopment Analysis Literature: A New Bibliographic Database (1951-2007) Presenter: Jyoti Kumar Chandel (Birla Institute of Technology International Centre, Oman) Coauthors: Daniel Becker (University of Rostock, Germany), Said Gattoufi</p>
12:25-1:25	<p>Lunch 7th Floor Commons iDEAs Business Meeting</p>
1:25-2:45	<p>Insurance Companies Room 746 Chair: J. David Cummins (Temple University, U.S.A.)</p> <p>Title: Efficiency Analysis of Non-Life Insurance in Indonesia Presenter: Zaenal Abidin (ABFI Institute Perbanas, Indonesia) Coauthor: Emilyn Cabanda (Regent University, U.S.A.)</p> <p>Title: Analyzing the Technical Efficiency of Insurance Companies in Gulf Cooperation Council Countries: A DEA approach Presenter: Khalid Al Amri (Sultan Qaboos University, Oman) Coauthors: Said Al Muharami, Said Gattoufi</p> <p>Title: Efficiency, Productivity and Scale Economies in the U.S. Property-Liability Insurance Industry Presenter: J. David Cummins (Temple University, U.S.A.) Coauthor: Xiaoying Xie</p> <p>Theory and Applications of DEA Room 745 Chair: Peter Bogetoft (Copenhagen Business School, Denmark)</p> <p>Title: Impact of Monitoring Versus Outcome-based Incentives on Retail Store Productivity Presenter: Jose M. Plehn-Dujowich (Temple University, U.S.A.) Coauthor: Rajiv Banker (Temple University, U.S.A.), Seok Young Lee</p> <p>Title: Inner and Outer Approximations of Technology: A Shadow Profit Approach Presenter: Herve Leleu (Catholic University of Lille, France)</p> <p>Title: Merger Analyses Using DEA and SFA: Theory and Applications Presenter: Peter Bogetoft (Copenhagen Business School, Denmark)</p>

2:45-3:05	Break	
3:05-3:55	<p>Panel: Research in Financial Services Industries</p> <p>Chair: Joseph Paradi (University of Toronto, Canada)</p> <p>Panelists: J. David Cummins (Temple University, U.S.A.) Paul Klumpes (Imperial College London, U.K.) David Sherman (Northeastern University, U.S.A.)</p>	7th Floor Commons
4:00-5:20	<p>Finance and Investments</p> <p>Chair: Elyas Elyasiani (Temple University, U.S.A.)</p> <p>Title: Performance of Investment Fund Managers Presenter: Janice Chen (Temple University, U.S.A.) Coauthors: Rajiv Banker (Temple University, U.S.A.), Paul Klumpes (Imperial College London, U.K.)</p> <p>Title: Bankruptcy Prediction Using Data Envelopment Analysis Presenter: Angela Tran (University of Toronto, Canada) Coauthor: Joseph Paradi (University of Toronto, Canada)</p> <p>Title: Bank Holding Company Diversification and Production Efficiency Presenter: Elyas Elyasiani (Temple University, U.S.A.) Coauthor: Yong Wong</p> <p>Multi-Dimensional Evaluation</p> <p>Chair: Vladimir Krivonozhko (Institute for Systems Analysis, Russia)</p> <p>Title: Multidimensional Performance of Listed Companies at the Philippine Stock Exchange Presenter: Emilyn Cabanda (Regent University, U.S.A.) Coauthor: Florence Bogacia (University of Santo Tomas, Philippines)</p> <p>Title: Advanced Operational Benchmarking Model Presenter: John Paul (Bordeaux Ecole de Management, France, and iCognitive, Singapore) Coauthors: Eric(Ye) Liang, Eva(Xia) Hua, Suresh Indukuri (Bordeaux Ecole de Management, France, and iCognitive, Singapore)</p> <p>Title: Construction of Rating Functions Based on DEA Models Presenter: Vladimir Krivonozhko (Institute for Systems Analysis, Russia) Coauthors: Alexander Piskunov, Andrey Lychev</p>	Room 746
5:30-8:00	Dinner	
Sunday, July 12		Alter Hall
8:30-9:20	<p>Hospital Efficiency</p> <p>Chair: David Sherman (Northeastern University, U.S.A.)</p> <p>Title: Efficiency Differences Among Hospitals and Surgical Departments in Ukraine Presenter: William Aaronson (Temple University, U.S.A.)</p>	Room 746

	<p>Coauthor: Anatoliy Pilyavskyy (Lviv Academy of Commerce, Ukraine)</p> <p>Title: The Size Efficiency and Service Offerings of U.S. Hospitals Presenter: Vivian Valdmanis (University Sciences in Philadelphia, U.S.A.) Coauthors: Herve Leleu (Catholic University of Lille, France), James Moises, Gary Ferrier (University of Arkansas, U.S.A.)</p> <p>Extending the Limits of Efficiency Room 745 Chair: Lifen Wu (University of Queensland, Australia)</p> <p>Title: Cost Efficiency in Relational Network DEA Presenter: Mehdi Toloo (Islamic Azad University of Central Tehran, Iran) Coauthors: Maryam Shadab Shams Abad, Mahta Yekkalam Tash</p> <p>Title: Data Envelopment Analysis Can Be Feasibly More Efficient Than the Pareto Efficiency? Presenter: Lifen Wu (University of Queensland, Australia)</p> <p>Beyond the Basic Model Room 744 Chair: Yongjun Li (University of Science and Technology of China, China)</p> <p>Title: Efficiency Improvement Based Upon Cross Efficiency Presenter: Yong Zha (University of Science and Technology of China, China) Coauthors: Liang Liang, Jie Wu (University of Science and Technology of China, China), Qinglong Gou, Gongbing Bi (University of Science and Technology of China, China)</p> <p>Title: Increasing the Discriminatory Power of DEA Using Shannon's Entropy Presenter: Yongjun Li (University of Science and Technology of China, China) Coauthor: Liang Liang</p>
9:25-10:45	<p>Panel: Directions for Future Research 7th Floor Commons Chair: Emmanuel Thanassoulis (Aston University, U.K.) Panelists: Rajiv Banker (Temple University, U.S.A.) Peter Bogetoft (Copenhagen Business School, Denmark) Finn Forsund (University of Oslo, Norway) Subhash Ray (University of Connecticut, U.S.A.)</p>
10:45-11:05	Break
11:05-11:55	<p>Efficiency of Schools Room 746 Chair: Preeti Tyagi (Indian Institute of Technology, Roorkee, India)</p> <p>Title: Assessment of Technical Efficiency of Indian B-Schools - A Comparison Between the Cross-Sectional and Time-Series Analysis Presenter: Gokulananda Patel (Birla Institute of Management Technology, India) Coauthor: Sree Kumar</p> <p>Title: Efficiency Analysis of Schools Using DEA: A Case Study of Uttar Pradesh State in India</p>

	<p>Presenter: Preeti Tyagi (Indian Institute of Technology, Roorkee, India) Coauthors: Shiv Prasad Yadav, S P Singh</p> <p>National Productivity and Well-Being Room 745 Chair: Hsihui Chang (Drexel University, U.S.A.)</p> <p>Title: Determinants of National Well-Being Presenter: Ki Kyung Song (Temple University, U.S.A.) Coauthor: Rajiv Banker (Temple University, U.S.A.)</p> <p>Title: Do Accounting Disclosure Practices Affect National Productivity? Presenter: Yu-Chen Lin (National Cheng Kung University, Taiwan) Coauthor: Hsihui Chang (Drexel University, U.S.A.), Jengfang Chen, Guan-Syun Wu</p> <p>Transportation Services Room 744 Chair: Rui Marques (Technical University of Lisbon, Portugal)</p> <p>Title: Measuring the Efficiency of Public Transport Sector in India: An Application of Data Envelopment Analysis Presenter: Shivi Agarwal (Birla Institute of Technology and Sciences, Pilani, India)</p> <p>Title: Efficiency Evaluation of 12 Regions of RAI (Iranian Railway) Using Data Envelopment Analysis Presenter: Mohammad Mehdi Movahedi (Islamic Azad University, Firozkouh, Iran) Coauthor: S. M. Hoseini</p>
11:55-12:55	Lunch
12:55-2:15	<p>DEA Software Room 746 Chair: Ali Emrouznejad (Aston University, U.K.)</p> <p>Title: Multidimensional Evaluation of DEA Software Presenter: Kersten Hentrich (Technical University Braunschweig, Germany) Coauthor: Heinz Ahn</p> <p>Title: PIM-DEA Software for the Advanced User Presenter: Ali Emrouznejad (Aston University, U.K.) Coauthor: Emmanuel Thanassoulis (Aston University, U.K.)</p> <p>Title: DEA Software FrontierVision Presenter: Vladimir Krivonozhko (Institute for Systems Analysis, Russia) Coauthor: Andrey Lychev</p> <p>International Studies of Health Services Room 745 Chair: Vivian Valdmanis (University Sciences in Philadelphia, U.S.A.)</p>

	<p>Title: Public and Private Hospital Services Reform: An Investigation in Iranian Hospitals Presenter: Yaghoub Sheikhzadeh (University of Delhi, India) Coauthors: Vijay K. Seth, Reza Gholi Vahidi, Ali Emrouznejad (Aston University, U.K.), Saeed Dastgiri</p> <p>Title: The Productive Efficiency of Health Care Institutions: An Application of Chinese Hospitals Presenter: Ying Chu Ng (Hong Kong Baptist University, China)</p> <p>Title: The Impacts of Health Sector Reform on the Efficiency and Productivity of Public and Private Hospitals in Turkey Presenter: Müge Diler (Bilkent University, Turkey) Coauthor: Osman Zaim</p> <p>Impact of Contextual Variables Room 744 Chair: Andrew Johnson (Texas A&M University, U.S.A.)</p> <p>Title: Influence of Contextual Variables: An Application to Agricultural Research Evaluation in Brazil Presenter: Geraldo Souza (Brazilian Agricultural Research Corporation, Brazil) Coauthor: Eliane Gomes, Roberta Staub</p> <p>Title: Nonparametric Efficiency Estimation in the Presence of Contextual Variables Presenter: Andrew Johnson (Texas A&M University, U.S.A.) Coauthor: Timo Kuosmanen</p> <p>Title: Double Bootstrap Confidence Intervals in the Two-Stage DEA Approach Presenter: Dimitris Chronopoulos (University of Essex, U.K.) Coauthors: Claudia Girardone, Jonh Nankervis</p>
2:15-2:35	Break
2:35-3:25	<p>Energy, Environment and Natural Resources Room 746 Chair: Kankana Mukherjee (Worcester Polytechnic Institute, U.S.A.)</p> <p>Title: Productivity Change in the Water Industry in England and Wales: Application of the Meta-Malmquist Index Presenter: Emmanuel Thanassoulis (Aston University, U.K.) Coauthors: Maria C. A. S. Portela, Alan Horncastle, Tobias Maugg Oxera</p> <p>Title: A Cost-Constrained Measure of Energy Use Efficiency in U.S. Manufacturing: An Inter-state Comparison Using the Census of Manufacturing Data Presenter: Kankana Mukherjee (Worcester Polytechnic Institute, U.S.A.) Coauthor: Subhash Ray, Lei Chen (University of Connecticut, U.S.A.)</p> <p>Competition and Decomposition Room 745 Chair: Thomas Sexton (Stony Brook University, U.S.A.)</p>

	<p>Title: Decomposing Modified Luenberger Indicator Using Directional Slacks-based Measure of Technical Inefficiency Presenter: Bernhard Mahlberg (Vienna University of Economics and Business, Austria) Coauthor: Bires K. Sahoo</p> <p>Title: Measuring Efficiency in the Presence of Head-to-Head Competition Presenter: Thomas Sexton (Stony Brook University, U.S.A.) Coauthor: Herbert Lewis (Stony Brook University, U.S.A.)</p> <p>New Applications and Extensions Room 744 Chair: Gongbing Bi (University of Science and Technology of China, China)</p> <p>Title: Equilibrium Data Envelopment Analysis Model for Measuring the Efficiency of Decision Making Units Presenter: Jie Wu (University of Science and Technology of China, China) Coauthor: Liang Liang</p> <p>Title: Models for Dealing with Dual-Role Factors in DEA: Extensions Presenter: Gongbing Bi (University of Science and Technology of China, China) Coauthors: Jingjin Ding, Liang Liang, Jie Wu (University of Science and Technology of China, China)</p>
3:25-4:15	<p>Panel: Research in Health Care Efficiency 7th Floor Commons Chair: William Aaronson (Temple University, U.S.A.) Panelists: Ali Emrouznejad (Aston University, U.K.) Marcos Estellita Lins (Federal University of Rio de Janeiro, Brazil) David Sherman (Northeastern University, U.S.A.) Vivian Valdmanis (University Sciences in Philadelphia, U.S.A.)</p>
4:15-4:30	<p>Conclusion 7th Floor Commons</p>