

APPC2016 Program (July 7-10, Nankai University, Tianjin)

Thursday July 7 th Pre-conference workshop			
Time	Session	Title & Presenter	Location
7:30am-9:00am	Registration for Workshops		Nankai Aichi Guesthouse
9:00am-10:30am	Workshop 1	<i>Productivity Accounting: The Economics of Business Performance</i> Emili Grifell-Tatjé (Universitat Autònoma de Barcelona)	Nankai Aichi Guesthouse Room H401
10:30am-11:00am		Coffee Break	
11:00am-12:30pm		<i>Productivity Accounting: The Economics of Business Performance</i> Emili Grifell-Tatjé (Universitat Autònoma de Barcelona)	
12:30pm-2:00pm	Lunch		Nankai Aichi Restaurant
9:00am-10:30am	Workshop 2	<i>Parametric Stochastic Frontier Models: Theory and Applications</i> Subal C. Kumbhakar (Binghamton University); Hung-Jen Wang (National Taiwan University)	Nankai Aichi Guesthouse Room H402
10:30am-11:00am		Coffee Break	
11:00am-12:30pm		<i>Parametric Stochastic Frontier Models: Theory and Applications</i> Subal C. Kumbhakar (Binghamton University); Hung-Jen Wang (National Taiwan University)	
12:30pm-2:00pm		Lunch	Nankai Aichi Restaurant
2:00pm-3:30pm		<i>Parametric Stochastic Frontier Models: Theory and Applications</i> Subal C. Kumbhakar (Binghamton University); Hung-Jen Wang (National Taiwan University)	Nankai Aichi Guesthouse Room H402
3:30pm-4:00pm		Coffee Break	
4:00pm-5:30pm		<i>Parametric Stochastic Frontier Models: Theory and Applications</i>	

		Subal C. Kumbhakar (Binghamton University); Hung-Jen Wang (National Taiwan University)	
9:00am-10:30am	Workshop 3	<i>Topics in DEA Modeling and Applications</i> DEA Models for Public and Service Sector Performance Measurement——Including Budget Constrained Models, Network Models Rolf Fare (Oregon State University); Shawna Grosskopf (Oregon State University)	Nankai Aichi Guesthouse Room H403
10:30am-11:00am		Coffee Break	
11:00am-12:30pm		DEA Models for Environmental Performance Assessment——Including Directional Distance Functions and Network Models DEA in a Dynamic Setting——Including Productivity and Efficiency Measurement Rolf Fare (Oregon State University); Shawna Grosskopf (Oregon State University)	
12:30pm-2:00am		Lunch	Nankai Aichi Restaurant
2:00pm-3:30pm		Participants' Questions, Problems Software Demonstration and Distribution with Tutorial Rolf Fare (Oregon State University); Shawna Grosskopf (Oregon State University)	Nankai Aichi Guesthouse Room H403
3:30pm-4:00pm		Coffee Break	
4:00pm-5:30pm		Participants' Questions, Problems Software Demonstration and Distribution with Tutorial Rolf Fare (Oregon State University); Shawna Grosskopf (Oregon State University)	
6:30pm-8:30pm	Reception Dinner		Nankai Aichi Restaurant

Day 1: Friday 8 th July, 2016				
Time	Session	Presenter(or Authors)	Title	Location
7:30am – 8:30am	Registration			Oriental Art Building —Shaw Hall
8:30am – 8:50am	Welcome Address Gong Ke (President of Nankai University) William Greene (New York University)			
9:00am–10:00am	Introduction to keynote speaker: Subal C. Kumbhakar Keynote Address: Robin Sickles (Rice University) Productivity, Efficiency and Endogeneity			
10:00am – 10:30am	Coffee Break			
10:30am – 12:30pm	<i>Parallel Session R1:</i> DEA: Banking and Finance III <u>Session Chair:</u> Chang-hong Pei	1. Tsu-tan Fu 2. Thanh Ngo and David Tripe 3. Shabnam Sorkhi and Joseph C. Paradi	1. Performance evaluation of Taiwan banking industry with the consideration of corporate governance 2. Performance composite index using ratio analysis and data envelopment analysis: An integration approach 3. A hybrid Bayesian and data-envelopment-analysis-based approach to measure the short-term risk of initial public offerings	Nankai Aichi Guesthouse Room H401
10:30am – 12:30pm	<i>Parallel Session R3:</i> Farm Level Productivity <u>Session Chair:</u> Jian-huan Huang	1. Daniel Muluwork Atsbeha, Dadi Kristofersson and Kyrre Rickertsen 2. Tibor Marton 3. Habtamu Alem 4. Anbes Tenaye Kidane	1. Component supply response in dairy production 2. Effects of evolving dairy quota systems on productivity performance in Norway 3. Technical efficiency and technology gaps in Norwegian regions: a meta-frontier model applied for dairy farms 4.Technical efficiency of smallholder agriculture in developing countries: The case of Ethiopia	Nankai Aichi Guesthouse Room H402

10:30am – 12:30pm	<i>Parallel Session R4:</i> DEA Theory and Productivity <u>Session Chair:</u> Finn Forsund	1. Victor Podinovskiy 2. Leopold Simar and Valentin Zelenyuk 3. Atakelty Hailu and Robert G.Chambers	1. Returns to scale for polyhedral DEA technologies 2. Asymptotic theory for aggregate efficiency 3. The world in the eyes of a Luenberger development indicator: Who is moving faster in the new century?	Nankai Aichi Guesthouse Room H403
10:30am – 12:30pm	<i>Parallel Session R5:</i> DEA:Undesirable Outputs <u>Session Chair:</u> Chiang Kao	1. Song Han and Jinhe Su 2. Susan Li and Zhimin Huang 3. Chia-yen Lee 4.Meng Hui and Ruizhi Pang	1. A DEA model with preference cone to measuring efficiency for undesirable output 2. Congestions and chance constrained programming in DEA 3. Nash marginal abatement cost of undesirable outputs in oligopolistic market 4. The GTFP and Structural Effects of China's Service Industry: Based on Sub-sector Industry Perspectives	Nankai Aichi Guesthouse Room H501
10:30am – 12:30pm	<i>Invited Session I1:</i> SFA modeling <u>Session Chair:</u> Jeong-Dong Lee	1. Yi-Ting Chen, Yu-Chin Hsu and Hung-Jen Wang 2. Hung-pin Lai, Cliff J.Huang and Tsu-tan Fu 3. Kristiaan Kerstens and Ignace Van de Woestyne 4.Abid A.Burki, Syed Muhammad Hussain and Mushtaq A.Khan	1. A Stochastic Frontier Model with an Endogenous Treatment Status and a Mediator 2. Quantile approach to the estimation of the metafrontier technology gap 3. The Remarkable Incidence of Congestion in Production: A Review and Empirical Illustration 4. Measuring Firms' Sales Tax Evasion with the Stochastic Frontier Approach	Nankai Aichi Guesthouse Room H502
10:30am – 12:30pm	<i>Invited Session I2:</i> Asia KLEMS <u>Session Chair:</u>	1. Harry X. Wu and Zhongwen Zhang 2. Taehyoung Cho, Byoungoo Choi,	1. To what extent resource reallocation may explain China's aggregate TFP growth? — Accounting for input misallocation across industries 2. Estimating the value of land for Korea since 1964	Nankai Aichi Guesthouse Room H301

	Hak Kil Pyo	Kyeongcheol Jang and Eunwoo Kim 3. Joji Tokui 4. Abid A. Burki, Syed Muhammad Hussain and Mushtaq A. Khan	3. The Estimation of Total Factor Productivity with Japanese Regional Data 4. Pakistan KLEMS Database and Productivity Measurement at the Industry Level	
10:30am – 12:30pm	中文专场 C1: 银行效率 主持人: 郭晓丹	1. 麦特克, 杨永烈 2. 孙永春 3. 朱宁, 王兵, 于之倩 4. 杨文, 曹龙骐, 孙蚌珠	1. 共同成本邊界與成本麥式生產力缺口指數之研究: 美國、中國、台灣銀行產業應用 2. 技術缺口比率與銀行規模與風險之分析 – 中國銀行產業 Meta-Frontier 模型之應用 3. 中国商业银行内生性效率变化路径研究 4. 产权结构改革提升了中国国有商业银行效率吗?	南开大学爱大会馆 H202
12:30pm – 1:30pm	Lunch			Nankai Aichi Restaurant
1:30pm – 2:30pm	Introduction to keynote speaker: Victor Podinovskiy Keynote Address: Joe Zhu (Worcester Polytechnic Institute) Decomposition Weights and Overall Efficiency in Two-stage Additive Network DEA			Oriental Art Building —Shaw Hall
2:30pm – 3:00pm	Coffee Break			Nankai Aichi Guesthouse
3:00pm – 4:30pm	<i>Parallel Session R6:</i> Health Service& Sports <u>Session Chair:</u> Emili Grifell Tatje	1. An-De Sung, Tsu-tan Fu and Hao-Tsung Chen 2. Atsushi Fujii 3. Ya Chen , Yande Gong and Xiang Li	1. University Performance Comparison between Taiwan and Mainland China 2. Endogenous Inefficiency Distribution of Municipal Hospitals in Japan 3. Evaluating NBA Player Performance using Bounded Integer Data Envelopment Analysis	Nankai Aichi Guesthouse Room H401

3:00pm – 4:30pm	<i>Parallel Session R13:</i> Heterogeneity, Productivity and IO <u>Session Chair:</u> Hong-zhou Li	1. Yanmin Shao and Changfu Sun 2. Hikmet Gunay and Xin Meng 3. Xian-Liang Tian	1. A study on FDI productivity with firm heterogeneity 2. Uniqueness of the reserve price with asymmetric bidders 3. Estimating sectorial product quality under quality heterogeneity	Nankai Aichi Guesthouse Room H402
3:00pm – 4:30pm	<i>Invited Session I4:</i> Banking and Finance: I <u>Session Chair:</u> Tsu-tan Fu	1. Yi-Kai Chen, Feng Sheng Chien and Yang Li 2. Linyue Li 3. Xiang Chen and Tsu-tan Fu	1. The impact of capital requirement on bank operating efficiency: An application of the bootstrapped truncated regression model 2. Business cycle synchronization, value added trade, equity market linkages and industrial structure 3. The impact of regional disparity on the cost and profit efficiency of city commercial banks	Nankai Aichi Guesthouse Room H501
3:00pm – 4:30pm	<i>Parallel Session R15:</i> Banking and Finance: II <u>Session Chair:</u> Ruizhi Pang	1. Mei-Ying Huang 2. Lu Zhang 3. Ning Zhu, Jens Leth Hougaard, Bing Wang and Zhiqian Yu	1. A Metafrontier Malmquist Productivity study on the Comparisons of Technical Efficiency and Productivity of Securities Firms between Taiwan and China 2. Did pre-crisis mortgage lending limit post-crisis corporate lending? Evidence from U.K. bank balance sheet 3. Ranking Chinese commercial banks based on their expected efficiency impact	Nankai Aichi Guesthouse Room H502
4:40pm – 6:10pm	<i>Plenary Session 1</i> <u>Session Chair:</u> Hung-Jen Wang	Christopher O'Donnell (University of Queensland): Linear Programming, Least Squares and Maximum Likelihood Estimators of Total Factor Productivity Change Subal C. Kumbhakar (Binghamton University): Economies of scale, technical change and persistent and time-varying cost efficiency in Indian banking: Do ownership, regulation and		Nankai Aichi Guesthouse Room H202

		heterogeneity matter?	
4:40pm – 6:10pm	<i>Plenary Session 2</i> <u>Session Chair:</u> Kristiaan Kerstens	Finn Forsund (University of Oslo): Dynamic industry productivity measures Shawna Grosskopf (Oregon State University): Time substitution model and applications	Nankai Aichi Guesthouse Room H301
6:10pm – 6:20pm	Waiting for Bus		Nankai Aichi Guesthouse Lobby
6:30pm – 8:30pm	Welcome Dinner		Go Believe Restaurant

Day 2: Saturday 9 th July, 2016				
Time	Session	Presenter(or Authors)	Title	Location
9:00am – 10:00am	Introduction to keynote speaker: Christopher O'Donnell William Greene (New York University) Distinguishing Heterogeneity from Inefficiency in a Panel Data Stochastic Frontier Model			Oriental Art Building — Shaw Hall
10:00am – 10:30am	Coffee Break			
10:30am – 12:30pm	<i>Parallel Session R2:</i> Regulation and Policy <u>Session Chair:</u> Christopher John O'Donnell	1. Finn Forsund 2. Atakelty Hailu and Chunbo Ma 3. Chansoo Park 4. Wang Hai-feng, Xue-jie Bai and Li Shuang	1. Multiequation modelling of desirable and undesirable outputs 2. Estimating the cost of carbon abatement for China 3. Performance analysis of Korea's 'New Growth Engine' policy 4. Environmental Regulation, Firm Heterogeneity and External Investment Bias—An Empirical Study based on the industrial listed companies in China	Nankai Aichi Guesthouse Room H401
10:30am – 12:30pm	<i>Parallel Session</i>	1. E. Di Stefano and	1. Structural transformation and allocation efficiency in China	Nankai Aichi

	<p><i>R8:</i></p> <p>Regional Comparisons</p> <p><u>Session Chair:</u> Zhang Ning</p>	<p>D. Marconi</p> <p>2. Mika Goto, Amani Mohammed Atris and Akihiro Otsuka</p> <p>3. Zhou Mi</p> <p>4. Abid A. Burki, Mushtaq A. Khan</p>	<p>and India</p> <p>2. Productivity growth and decomposition in Japanese regional economies before Abenomics: Application of HMB productivity index</p> <p>3. China's regional collaborative innovation path: case of Beijing-Tianjin-Hebei</p> <p>4. Do Agglomeration Economies Affect Productivity and Technical Inefficiency of Manufacturing Firms in Pakistan?</p>	<p>Guesthouse Room H402</p>
10:30am – 12:30pm	<p><i>Parallel Session R7:</i></p> <p>Transportation and Logistics</p> <p><u>Session Chair:</u> Victor Podinovskiy</p>	<p>1. Ru Ji and Kok Fong See</p> <p>2. Kok Fong See</p> <p>3. Erwin T. J. Lin</p> <p>4. Li Xiang</p>	<p>1. Technical efficiency analysis of major international airports in China: Evidence from a stochastic output distance function approach</p> <p>2. Productivity Change of the Japanese Airport Industry</p> <p>3. Evaluating performance of rail transport using network DEA model</p> <p>4. On the Value of Recourses of Ordering from Unreliable and Capacitated Suppliers</p>	<p>Nankai Aichi Guesthouse Room H403</p>
10:30am – 12:30pm	<p><i>Parallel Session R9:</i></p> <p>SFA: Theory II</p> <p><u>Session Chair:</u> Hung-pin Lai</p>	<p>1. Binlei Gong and Robin Sickles</p> <p>2. Hong-Zhou Li, Timo Kuosmanen and Tuan Nguyen</p> <p>3. Timo Kuosmanen and Xun Zhou</p> <p>4. Hideyuki Mizobuchi</p>	<p>1. Resource allocation in multidivisional multiproduct firms: Examining the divisional productivity of energy companies</p> <p>2. To what degree the costs of Japanese electric grid sector could have been saved?</p> <p>3. Environmental productivity growth in consumer durables: Insights from cohorts of new passenger cars in Finland</p> <p>4. Productivity indexes under Hicks neutral technical change</p>	<p>Nankai Aichi Guesthouse Room H501</p>
10:30am – 12:30pm	<p><i>Invited Session R12:</i></p>	<p>1. Jin-Li Hu, Fang-Guan Jan and Ming-Chung</p>	<p>1. Context-dependent total-factor energy efficiency</p> <p>2. China's green GDP growth and economic openness</p>	<p>Nankai Aichi Guesthouse</p>

	Green Growth <u>Session Chair:</u> Jin-Li Hu	Chang 2. Jin Sun 3. Sangmok Kang 4. Na Duan, Bai-Chen Xie	3. Environmental and fossil fuel efficiencies using the Stochastic Frontier Cost Function 4. The impact of coal-electricity linkage on the cost efficiency of China's thermal power plants	Room H502
10:30am – 12:30pm	<i>Invited Session I5:</i> Manufacturing <u>Session Chair:</u> Jiro Nemoto	1. Kawakami Tetsu, Yamada Eri and Jiro Nemoto 2. Donghyun Oh 3. Jeong-Dong Lee and Hun Jun Lee 4. Ning Zhang, Yanni Yu and Zhongfei Chen	1. The micro-geographies of productivity growth: Evidence from the auto-related industries in Japan 2. Too big to fail?— Evidence from global steel companies 3. Industry Dynamics and Creative Destruction in Korean Manufacturing Sector (1993-2013) 4. The low-carbon technology characteristics of China's ferrous metal industry	Nankai Aichi Guesthouse Room H301
10:30am – 12:30pm	中文专场 C2: 转型与创新 主持人: 白雪洁	1. 杨敏, 安庆贤, 丁涛, 梁樑, 胡丹 2. 尹向飞, 段文斌 3. 刘霞辉 4. 凌端新 5. 孙元元	1. 基于 DEA 方法的碳排放分摊——依据逐步效率提升与排放权计划减少准则 2. 中国科技创新支撑了中国经济增长吗? ——基于动态的视角 3. 人力资本消费与经济转型 4. 基于三阶段 DEA 模型的江苏高校人文社会科学科研效率研究 5. 资源组间再配置、参考生产率选取与中国制造业 总生产率变动的分解	南开大学爱大会馆 H202
12:30pm – 1:30pm	Lunch			Nankai Aichi Restaurant
1:30pm – 3:30pm	<i>Parallel Session R10:</i> Market	1. Sungko Li and Xinju He 2. Chun Liu, Yi Zhang and Zheming Yan	1. The impacts of marketization and subsidies on the environmental performance of the Chinese health-care sector	Nankai Aichi Guesthouse Room H401

	Distortions and Productivity <u>Session Chair:</u> Subal Chandra Kumbhakar	3. Li Shuang and Xuejie Bai	2. “Guanxi” investment, corruption and technical efficiency: Evidence from Chinese private enterprises 3. Factors Price Distortion, Technological Innovation Pattern and the Biased Technological Progress in China’s Industry	
1:30pm – 3:30pm	<i>Parallel Session</i> R11: TFP Theory and Applications <u>Session Chair:</u> Robin Sickles	1. M A Samad Azad and Tiho Ancev 2. Edwin Sayes 3. A. Yu. Apokin and I. B. Ipatova 4. Hamid Sepehrdoust and Saber Zamani Shabkhaneh	1. Valuing on-farm natural capital – A new productivity and efficiency model 2. Still needed? The theory of total factor productivity 3. How R&D expenditures impact on total factor productivity and technical efficiency? 4. How total factor productivity is affected in a knowledge-based economy?	Nankai Aichi Guesthouse Room H402
1:30pm – 3:30pm	<i>Parallel Session</i> I3: Agriculture and Food Related Industries <u>Session Chair:</u> Suthathip Yaisawarng	1. Thananporn Athipanyakul and Suthathip Yaisawarng 2. Shabbir Ahmad and John Steen 3. Maman Setiawan and Alfons Oude Lansink 4. Wirat Krasachat	1. Efficiency in Sugarcane Production across AEC Member Countries and Their Major Trading Partners 2. Small farmer’s capabilities and farm level productivity: An empirical evidence from developing economies 3. Dynamic technical efficiency and competition of the Indonesian food and beverages industry 4. Productivity growth in ASEAN agriculture: A metafrontier approach	Nankai Aichi Guesthouse Room H403
1:30pm – 3:30pm	<i>Parallel Session</i> R14: Power Industry and Public Affairs	1. Ke Wang, Chia-Yen Lee, Jieming Zhang and Yi-Ming Wei 2. Minzhe Du and Bing Wang	1. Operational performance management of the power industry: A distinguishing analysis between effectiveness and efficiency 2. Performance evaluation of China's urban water supply utilities: Based on the cost productivity	Nankai Aichi Guesthouse Room H501

	<u>Session Chair:</u> Yang Li	3. Su Wu 4. Wang Xianmei and Hu Hanhui	3. Cost Efficiency of the Electricity Distribution Networks in Australia: Importance of Model Specifications 4. Sustainable development research of cable TV industry based on efficiency evaluation	
1:30pm – 3:30pm	<i>Invited Session</i> I6: SFA: Theory I <u>Session Chair:</u> Cliff Huang	1. Linjia Zhang, Stéphane Vigeant and Pierre Ouellette 2. Hung-pin Lai 3. José M. Cordero, Cristina Polo and Elsa Pisaflores 4. José Manuel Cordero, Cristina Polo and Daniel Santín	1. Efficiency, returns to scale and public infrastructures: The Aigner and Chu model revisited 2. The panel stochastic frontier model with firm-heterogeneity and dynamic technical inefficiency 3. Efficiency assessment of Portuguese municipalities using a conditional nonparametric approach 4. Alternative approaches to include exogenous variables: A Monte Carlo comparison	Nankai Aichi Guesthouse Room H502
1:30pm – 3:30pm	<i>Parallel Session</i> <i>R16:</i> Environment and Eco-efficiency <u>Session Chair:</u> Valentin Zelenyuk	1. Jianhuan Huang and Yue Hua 2. Zhen Xie 3. Lingling Hou, Dana Hoag and Catherine Keske 4. Zhang Bin and Lu Danting	1. Convergence of eco-efficiency among Chinese cities 2. Air pollution, Urbanization and China's Environmental Efficiency Analysis 3. Abatement costs of Emissions from Crop Residue Burning in major crop producing regions of China: Balancing food security with the environment 4. The Research of Urbanization Efficiency in the Constraint of Environment	Nankai Aichi Guesthouse Room H301
1:30pm – 3:30pm	中文专场 C3: 区域发展 主持人: 王兵	1. 金刚, 沈坤荣 2. 郭晓丹, 张军 3. 朱卫未 4. 冯晨鹏, 丁晶晶	1. 中国区域电信行业技术效率的再估计及演化分析 2. 中国大城市的吸引力何在? ——基于企业间资源配置效率视角的一个解释 3. 基于区间变量的决策单元交叉效率评价和排序研究	南开大学爱大会馆 H202

		4. 基于公共权重 DEA 乘子模型的决策单元聚类	
3:30pm – 4:00pm	Coffee Break		Nankai Aichi Guesthouse
4:00pm – 5:30pm	<i>Plenary Session 3</i> <u>Session Chair:</u> Joe Zhu	Rolf Fare (Oregon State University): The Law of Diminishing Returns and other variations of the Weiertrass Theorem Emili Grifell-Tatjé and C. A. Knox Lovell: Productivity and Financial Performance	Nankai Aichi Guesthouse Room H202
4:00pm – 5:30pm	<i>Plenary Session 4</i> <u>Session Chair:</u> Shawna Grosskopf	Chiang Kao (National Cheng Kung University): Intertemporal Efficiency Analysis: A Parallel Production Frontiers Approach Victor Podinovskiy (Loughborough University): Recent developments of DEA models with weight restrictions: what is the news?	Nankai Aichi Guesthouse Room H301
5:45pm – 6:10pm	Closing Ceremony Remark Cliff Huang(Host), Robin Sickles(Conference Summary), Ruizhi Pang(Acknowledgement) Announcement of APPC2018 Site		Oriental Art Building —Shaw Hall
6:30pm – 9:00pm	Farewell Dinner		Nankai Aichi Restaurant

Day 3 (Social Activities): Sunday 10 th July, 2016		
9:30am – 12:00pm	Ancient Culture Street	
12:30pm – 1:30pm	Lunch	Nankai Aichi Restaurant
2:00pm – 4:30pm	Five-Avenue Area	
5:30pm – 7:30pm	Dinner	Nankai Aichi Restaurant