



Leibniz Institute of Agricultural Development
in Transition Economies

LEIBNIZ INSTITUTE OF AGRICULTURAL DEVELOPMENT IN TRANSITION ECONOMIES

НУБіП, Київ, Україна | 19 грудня 2017





Leibniz Institute of Agricultural Development
in Transition Economies

Economic Academic Research, Writing and Publishing

Економічні академічні дослідження, роботи та публікації

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НУБіП, Київ, Україна | 19 грудня 2017

1. Вступ

(Постановка проблеми; Проблематика та мотивація дослідження; Мета та цілі дослідження; Вклад та особливості дослідження; Структура статті)

2. Огляд літератури

(Огляд емпіричних досліджень; Дискусія підходів та методів; Результати попередніх досліджень)

3. Теоретичні основи

(Теоретичні основи дослідження; Базова модель та їх інтерпретація; Розширення, адаптація та налаштування моделі)

4 Дані дослідження

(Змінні моделі; Описова статистика: розмір статистичної вибірки, мінімальні, максимальні та середні значення змінних; Джерела походження даних)

5. Емпіричний аналіз

(Економетрична імплементація; Вибір функціональних форм; Вибір методів оцінки; Інтерпретація параметрів та результатів оцінки)

6. Результати дослідження

(Результати економетричної оцінки моделі, Статистичні висновки; Тестування специфікації моделі; Тестування гіпотез; Перевірка статистичних гіпотез)

7. Висновки

(Підсумки результатів дослідження; Висновки стосовно майбутніх досліджень; Політичні рекомендації)

RePEc








General principles

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So far, over 1,900 archives from [94 countries](#) have contributed about 2.3 million research pieces from 2,800 journals and 4,500 working paper series. About 50,000 authors have registered and 75,000 email subscriptions are served every week. See below on how you can be part of this initiative.

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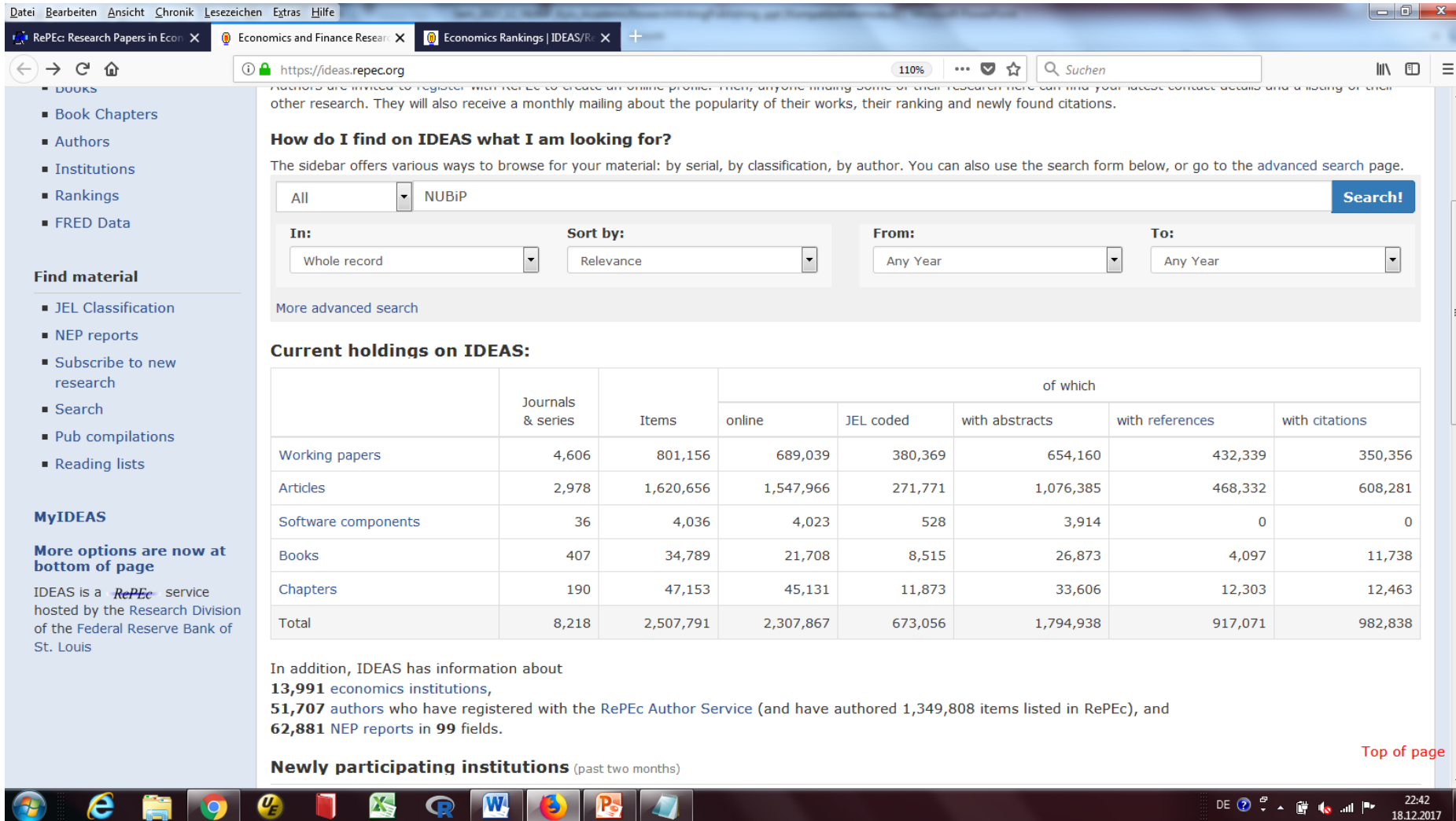
	Munich Personal RePEc Archive	Authors in institutions lacking a participating RePEc archive can submit their papers to MPRA and get them included in the RePEc database.
	RePEc Author Service	Author registration and maintenance of a profile on RePEc.
	IDEAS	The complete RePEc database at your disposal. Browse or search it all.
	EconPapers	Economics at your fingertips. EconPapers provides access to all of RePEc. Browsing and searching available.
	RePEc Genealogy	Academic family tree for economics.
	RePEc Biblio	Hand-selected bibliography of articles and papers in economics.
	EconAcademics.org	Blog aggregator for discussion about economics research.

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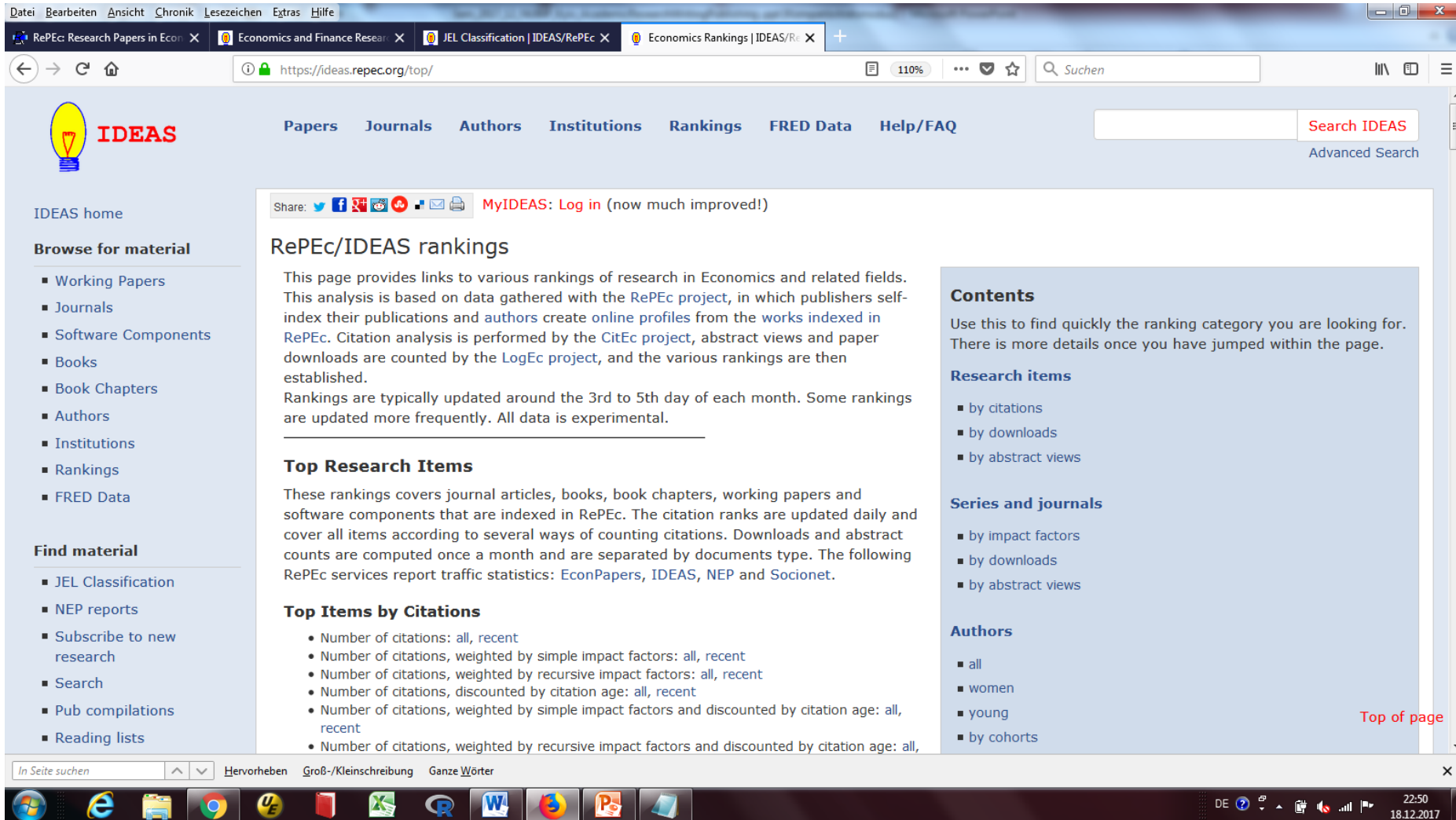
	Journals & series	Items	of which				
			online	JEL coded	with abstracts	with references	with citations
Working papers	4,606	801,156	689,039	380,369	654,160	432,339	350,356
Articles	2,978	1,620,656	1,547,966	271,771	1,076,385	468,332	608,281
Software components	36	4,036	4,023	528	3,914	0	0
Books	407	34,789	21,708	8,515	26,873	4,097	11,738
Chapters	190	47,153	45,131	11,873	33,606	12,303	12,463
Total	8,218	2,507,791	2,307,867	673,056	1,794,938	917,071	982,838

In addition, IDEAS has information about **13,991** economics institutions, **51,707** authors who have registered with the RePEc Author Service (and have authored 1,349,808 items listed in RePEc), and **62,881** NEP reports in **99** fields.

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The screenshot shows a web browser window displaying the RePEc/IDEAS website. The browser's address bar shows the URL <https://ideas.repec.org/top/>. The website's navigation menu includes links for Papers, Journals, Authors, Institutions, Rankings, FRED Data, and Help/FAQ. A search bar is located in the top right corner with the text "Search IDEAS" and "Advanced Search".

The main content area features a "Share:" section with social media icons and a "MyIDEAS: Log in (now much improved!)" link. Below this is the "RePEc/IDEAS rankings" section, which provides an overview of the rankings and their methodology. It states that the analysis is based on data gathered with the RePEc project and that citation analysis is performed by the CitEc project. It also mentions that rankings are typically updated around the 3rd to 5th day of each month.

The "Top Research Items" section lists various ranking categories, including:

- Number of citations: all, recent
- Number of citations, weighted by simple impact factors: all, recent
- Number of citations, weighted by recursive impact factors: all, recent
- Number of citations, discounted by citation age: all, recent
- Number of citations, weighted by simple impact factors and discounted by citation age: all, recent
- Number of citations, weighted by recursive impact factors and discounted by citation age: all, recent

The right sidebar contains a "Contents" section with a search bar and a "Research items" section with sub-categories: by citations, by downloads, and by abstract views. Below this is a "Series and journals" section with sub-categories: by impact factors, by downloads, and by abstract views. The "Authors" section includes sub-categories: all, women, young, and by cohorts. A "Top of page" link is visible at the bottom right of the sidebar.

The browser's taskbar at the bottom shows various application icons, including Internet Explorer, Firefox, and several instances of Google Chrome. The system tray in the bottom right corner displays the date and time: 22:50 on 18.12.2017.

specific to this particular ranking are:

The rankings

Rank	Journal	Factor	Adjusted citations	Items	All citations
1	The Quarterly Journal of Economics, Oxford University Press	91.224	210817	2311	212057
2	Journal of Economic Literature, American Economic Association	81.837	72916	891	73201
3	Journal of Political Economy, University of Chicago Press	76.405	227534	2978	229129
4	Econometrica, Econometric Society (also covers Econometrica, Econometric Society)	75.127	265195	3530	267043
5	Journal of Economic Growth, Springer	64.253	19340	301	19756
6	Journal of Financial Economics, Elsevier	52.025	138073	2654	149337
7	Review of Economic Studies, Oxford University Press	49.035	113612	2317	114321
8	Journal of Finance, American Finance Association	46.579	212305	4558	214849
9	Journal of Economic Perspectives, American Economic Association	45.904	76797	1673	77479
10	American Economic Review, American Economic Association	40.269	388229	9641	393989
11	Review of Financial Studies, Society for Financial Studies	39.838	66011	1657	66808
12	Economic Policy, CEPR;CES;MSH (also covers Economic Policy, CEPR;CES;MSH)	39.191	12149	310	12225
13	Brookings Papers on Economic Activity, Economic Studies Program, The Brookings Institution	37.607	28167	749	28402
14	Journal of Monetary Economics, Elsevier (also covers Carnegie-Rochester Conference Series on Public Policy, Elsevier)	37.105	123705	3334	128056
15	Journal of Labor Economics, University of Chicago Press	35.09	37476	1068	38547
16	Journal of the European Economic Association, MIT Press	35.075	18835	537	18917
17	Journal of Econometrics, Elsevier	31.689	131823	4160	141376
18	American Economic Journal: Macroeconomics, American Economic Association	30.885	8586	278	8687
19	Economic Journal, Royal Economic Society (also covers Economic Journal, Royal Economic Society)	28.286	103611	3663	104243
20	RAND Journal of Economics, RAND Corporation (also covers Bell Journal of Economics, The RAND Corporation RAND Journal of Economics, The RAND Corporation)	27.658	54901	1985	55132

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Postanovka problemi/Motivacija (5)

Journal Name	Impact Factor	Other Metric 1	Other Metric 2	Other Metric 3
Macmillan)				
53 Oxford Bulletin of Economics and Statistics, Department of Economics, University of Oxford	16.489	25739	1561	25902
54 Journal of International Money and Finance, Elsevier	16.183	35376	2186	38388
55 American Economic Journal: Economic Policy, American Economic Association	16.027	5497	343	5604
56 Mathematical Finance, Wiley Blackwell	15.905	8668	545	8759
57 Econometrics Journal, Royal Economic Society (also covers Econometrics Journal, Royal Economic Society)	15.751	7513	477	7542
Proceedings, Federal Reserve Bank of Philadelphia	15.429	108	7	108
58 Journal of Urban Economics, Elsevier	15.423	31694	2055	35017
59 Journal of Health Economics, Elsevier	15.389	28991	1884	33137
60 Journal of Financial Markets, Elsevier	14.638	6104	417	6538
61 Journal of Business Venturing, Elsevier	14.277	15019	1052	19651
62 Economic Policy Review, Federal Reserve Bank of New York	14.051	5522	393	5603
Journal of Global Economic Analysis, Center for Global Trade Analysis, Department of Agricultural Economics, Purdue University (also covers GTAP Technical Papers, Center for Global Trade Analysis, Department of Agricultural Economics, Purdue University)	14.021	687	49	692
63 Proceedings, Board of Governors of the Federal Reserve System (U.S.)	13.985	2713	194	2725
64 Journal of Financial and Quantitative Analysis, Cambridge University Press	13.953	32858	2355	32964
65 Labour Economics, Elsevier	13.898	17705	1274	18668
66 Journal of Industrial Economics, Wiley Blackwell	13.785	18719	1358	18796
67 BIS Quarterly Review, Bank for International Settlements	13.729	2938	214	3160
68 Research Policy, Elsevier	13.642	43435	3184	55452
69 Journal of Financial Econometrics, Society for Financial Econometrics	13.392	4821	360	4897
70 Journal of Empirical Finance, Elsevier	13.389	12692	948	13318
71 ECONOMIA JOURNAL OF THE LATIN AMERICAN AND CARIBBEAN ECONOMIC ASSOCIATION, ECONOMIA JOURNAL OF THE LATIN AMERICAN AND CARIBBEAN ECONOMIC ASSOCIATION	13.05	2349	180	2358
72 Journal of Population Economics, Springer-European Society for Population Economics	12.992	14187	1092	15044

Postanovka problemi/Motivacija (6)

121	Economics of Innovation and New Technology, Taylor & Francis Journals	8.277	5727	692	5866
122	Journal of Financial Stability, Elsevier	8.238	4432	538	5173
123	Canadian Journal of Economics, Canadian Economics Association	8.172	22684	2776	22906
124	American Economic Journal: Microeconomics, American Economic Association	8.051	2729	339	2778
125	Economic Theory, Springer;Society for the Advancement of Economic Theory (SAET)	7.987	17762	2224	19937
126	Journal of Regulatory Economics, Springer	7.909	6596	834	7168
127	Journal of the Royal Statistical Society Series B, Royal Statistical Society	7.889	6697	849	6713
128	Journal of the Japanese and International Economies, Elsevier	7.875	6646	844	7134
129	World Development, Elsevier	7.831	48598	6206	57185
130	Journal of Management Studies, Wiley Blackwell	7.78	9600	1234	9633
131	German Economic Review, Verein für Socialpolitik	7.763	3501	451	3597
132	Economic Development and Cultural Change, University of Chicago Press	7.692	13852	1801	13956
133	Agricultural Economics , International Association of Agricultural Economists (also covers Agricultural Economics of Agricultural Economists, International Association of Agricultural Economists Agricultural Economics, Blackwell)	7.564	18992	2511	19679
134	Review of International Economics, Wiley Blackwell	7.539	10245	1359	10367
135	Journal of Human Capital, University of Chicago Press	7.518	1075	143	1125
136	Journal of Corporate Finance, Elsevier	7.51	8966	1194	11189
137	Proceedings, Federal Reserve Bank of Dallas	7.488	584	78	585
138	Emerging Markets Review, Elsevier	7.474	3632	486	4204
139	American Journal of Agricultural Economics Appendices, Agricultural and Applied Economics Association	7.429	780	105	780
140	The Journal of Legal Studies, University of Chicago Press	7.422	5136	692	5428
141	Journal of Transport Economics and Policy, University of Bath	7.378	2582	350	2605
142	Macroeconomic Dynamics, Cambridge University Press	7.261	7362	1014	7566
143	Proceedings - Economic Policy Symposium - Jackson Hole, Federal Reserve Bank of Kansas City	7.246	4550	628	4616
144	Current Issues in Economics and Finance, Federal Reserve Bank of New York	7.178	1493	208	1577

Postanovka problemi/Motivacija (7)

133	Agricultural Economics, International Association of Agricultural Economists (also covers Agricultural Economics of Agricultural Economists, International Association of Agricultural Economists Agricultural Economics, Blackwell)	7.564	18992	2511	19679
134	Review of International Economics, Wiley Blackwell	7.539	10245	1359	10367
135	Journal of Human Capital, University of Chicago Press	7.518	1075	143	1125
136	Journal of Corporate Finance, Elsevier	7.51	8966	1194	11189
137	Proceedings, Federal Reserve Bank of Dallas	7.488	584	78	585
138	Emerging Markets Review, Elsevier	7.474	3632	486	4204
139	American Journal of Agricultural Economics Appendices, Agricultural and Applied Economics Association	7.429	780	105	780
140	The Journal of Legal Studies, University of Chicago Press	7.422	5136	692	5428
141	Journal of Transport Economics and Policy, University of Bath	7.378	2582	350	2605
142	Macroeconomic Dynamics, Cambridge University Press	7.261	7362	1014	7566
143	Proceedings - Economic Policy Symposium - Jackson Hole, Federal Reserve Bank of Kansas City	7.246	4550	628	4616
144	Current Issues in Economics and Finance, Federal Reserve Bank of New York	7.178	1493	208	1577
145	Ecological Economics, Elsevier	7.154	36317	5077	50561
146	<u>Journal of Agricultural Economics, Wiley Blackwell</u>	7.059	7002	992	7076
147	Journal of Evolutionary Economics, Springer Demographic Research Special Collections, Max Planck Institute for Demographic Research, Rostock, Germany	6.906	6125	887	6718
		6.869	261	38	267
148	Foundations and Trends(R) in Entrepreneurship, now publishers	6.843	390	57	391
149	Real Estate Economics, American Real Estate and Urban Economics Association	6.776	8307	1226	8476
150	Conference Series ; [Proceedings], Federal Reserve Bank of Boston	6.766	2476	366	2499
151	Review of World Economics (Weltwirtschaftliches Archiv), Springer;Institut für Weltwirtschaft (Kiel Institute for the World Economy)	6.75	11109	1646	11941
152	Review of Income and Wealth, International Association for Research in Income and Wealth	6.729	10200	1516	10333
153	Regional Studies, Taylor & Francis Journals	6.709	12988	1936	13608
154	Journal of Comparative Economics, Elsevier	6.709	14597	2176	15601

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Top 25% institutions in Ukraine

Rank	W.Rank	Institution	Score	Authors	Author shares
1	[1]	Kyiv School of Economics Kyiv, Ukraine	1.16	13	11.36
---	[---]	Kyiv Economics Institute, Kyiv School of Economics Kyiv, Ukraine	3.84	5	3.73
2	[2]	Department of Business Administration and Corporate Security, International Humanitarian University Odessa, Ukraine	4.07	2	2
3	[3]	Lviv Academy of Commerce Lviv, Ukraine	4.17	1	1
---	[---]	Economics Education and Research Consortium (EERC), Kyiv School of Economics Kyiv, Ukraine	5.62	5	3.26
4	[4]	Ukrainian Academy of Banking of the National Bank of Ukraine Sumy, Ukraine	5.87	24	22.68
5	[5]	Institute for Economics and Forecasting, Ukrainian National Academy of Sciences Kyiv, Ukraine	6.08	5	4.9
6	[7]	Faculty of Economics and Management, Sumy State University Sumy, Ukraine	6.39	3	3
7	[6]	National Bank of Ukraine Kyiv, Ukraine	6.98	5	4.3
8	[8]	Economic Sciences Faculty, University of "Kiev-Mohyla Academy" Kyiv, Ukraine	8.64	3	2.5
9	[9]	Economic Research Institute Donetsk, Ukraine	10.15	10	10
10	[10]	Research Institute of Fiscal Policy Kyiv, Ukraine	11.36	2	1.75
11	[11]	Institute of Industrial Economics, National Academy of Science Donetsk, Ukraine	12.58	4	3.25

Top 25% authors in Ukraine

Ranking of institutions

Ranking of authors

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Postanovka problemi/Motivacija (9)

101	[101]	Institut der Deutschen Wirtschaft Köln Köln, Germany	141.7	7	6.64
---	[---]	Institut für Wirtschaftsgeschichte, Wirtschaftswissenschaftliche Fakultät, Humboldt-Universität Berlin Berlin, Germany	142.16	3	1.85
---	[---]	Institut für Wirtschaftstheorie II, Wirtschaftswissenschaftliche Fakultät, Humboldt-Universität Berlin Berlin, Germany	144.67	13	6.79
102	[102]	Mercator Research Institute on Global Commons and Climate Change (MCC) Berlin, Germany	145.04	7	4.53
---	[---]	Ehemalige Professur für Volkswirtschaftslehre, Finanzwissenschaft und Umweltökonomik, Fakultät Wirtschaftswissenschaften, Wirtschaftsinformatik und Wirtschaftsrecht, Universität Siegen Siegen, Germany	145.74	1	0.8
---	[---]	Zentrum für Finanzen und Ökonometrie, Fachbereich Wirtschaftswissenschaften, Universität Konstanz Konstanz, Germany	146.38	6	4.84
---	[---]	Institut für Außenhandel und Wirtschaftsintegration, Fachbereich Volkswirtschaftslehre, Universität Hamburg Hamburg, Germany	147.55	5	3.34
103	[107]	Deutsches Institut für Entwicklungspolitik (DIE) Bonn, Germany	148.91	15	11.4
---	[---]	Volkswirtschaftliches Institut, Wirtschaftswissenschaftliche Fakultät, Bayerische Julius-Maximilians-Universität Würzburg Würzburg, Germany	149.37	8	6.4
104	[104]	Center for Quantitative Risk Analysis (CEQURA), Institut für Statistik, Ludwig-Maximilians-Universität München München, Germany	150.11	1	0.9
105	[106]	Institut für Angewandte Wirtschaftsforschung (IAW) Tübingen, Germany	150.47	7	4.65
106	[105]	Wirtschaftswissenschaftliche Fakultät, Katholische Universität Eichstätt-Ingolstadt Eichstätt-Ingolstadt, Germany	151.51	4	3.65
107	[108]	Fakultät für Wirtschafts- und Rechtswissenschaften, Technische Hochschule Köln Köln, Germany	151.65	2	1.36

Top 25% authors in Germany

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Postanovka problemi/Motivacija (10)

Rank	ID	Name	Location	Score 1	Score 2	Score 3
58	[59]	Fakultät für Wirtschaftswissenschaften, Karlsruhe Institute of Technology	Karlsruhe, Germany	75.45	13	12.47
59	[56]	Fachbereich Wirtschaftswissenschaften, Justus-Liebig-Universität Gießen	Gießen, Germany	75.72	15	14.3
---	[---]	Munich Center for Innovation and Entrepreneurship Research (MCIER), Max-Planck-Institut für Innovation und Wettbewerb, Max-Planck-Gesellschaft	München, Germany	75.74	3	1.3
60	[60]	Volkswirtschaftslehre, Otto-Friedrich Universität Bamberg	Bamberg, Germany	75.79	8	6.33
---	[---]	Institut für Volkswirtschaftslehre einschließlich Ökonometrie, Wirtschaftswissenschaftliche Fakultät, Universität Regensburg	Regensburg, Germany	76.13	14	10.89
61	[62]	Fachbereich Wirtschaftswissenschaften, Universität Kassel	Kassel, Germany	76.55	15	14.01
62	[61]	Wirtschaftswissenschaftliche Fakultät, Universität Leipzig	Leipzig, Germany	77.18	15	13.04
63	[64]	Leibniz-Institut für Agrarentwicklung in Transformationsökonomien (IAMO)	Halle, Germany	77.29	43	41.06
---	[---]	Forum for Macroeconomics and Macroeconomic Policy, Hans Böckler Stiftung	Düsseldorf, Germany	78.1	16	2.55
64	[63]	Fakultät für Wirtschaftswissenschaften, Technische Universität München	München, Germany	80.04	14	13.39
65	[65]	Fakultät Wirtschaft und Management, Technische Universität Berlin	Berlin, Germany	81.54	27	20.58
66	[66]	Fakultät für Wirtschaftswissenschaften, Rheinisch-Westfälische Technische Hochschule Aachen	Aachen, Germany	82.96	14	12.89
67	[67]	Fachbereich Wirtschaftswissenschaft, Bergische Universität Wuppertal	Wuppertal, Germany	85.44	17	13.62
68	[68]	Fakultät für Wirtschaftswissenschaften, Universität Passau	Passau, Germany	85.69	10	9.98
69	[69]	Fachbereich Wirtschaftswissenschaften, Universität Osnabrück	Osnabrück, Germany	85.98	8	6.11

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Top 25% institutions in Germany

Rank	W.Rank	Institution	Score	Authors	Author shares
1	[1]	Institute of Labor Economics (IZA) Bonn, Germany	1.54	714	110.73
2	[2]	European Central Bank Frankfurt am Main, Germany	1.64	194	175.93
3	[3]	ifo Institut - Leibniz-Institut für Wirtschaftsforschung an der Universität München e.V. München, Germany	4	165	125.01
4	[5]	CESifo München, Germany	4.19	285	32.98
5	[4]	DIW Berlin (Deutsches Institut für Wirtschaftsforschung) Berlin, Germany	4.34	150	100.1
6	[6]	Volkswirtschaftliche Fakultät, Ludwig-Maximilians-Universität München München, Germany	6.63	73	56.62
7	[7]	Fachbereich Wirtschaftswissenschaft, Goethe Universität Frankfurt am Main Frankfurt am Main, Germany	7.85	66	57.82
8	[9]	Wirtschaftswissenschaftlicher Fachbereich, Rheinische Friedrich-Wilhelms-Universität Bonn Bonn, Germany	8.79	52	42.53
9	[8]	Abteilung für Volkswirtschaftslehre, Universität Mannheim Mannheim, Germany	9.13	51	45.59
10	[10]	Deutsche Bundesbank Frankfurt, Germany	9.42	108	98.29
11	[12]	Fachbereich Wirtschaftswissenschaften, Universität Konstanz Konstanz, Germany	10.56	44	41.84
12	[11]	Zentrum für Europäische Wirtschaftsforschung (ZEW) Mannheim, Germany	11.22	142	113.76
13	[13]	Wirtschaftswissenschaftliche Fakultät, Humboldt-Universität Berlin Berlin, Germany	13.31	95	67.09
14	[14]	Wirtschafts- und Sozialwissenschaftliche Fakultät, Universität zu Köln Köln, Germany	13.97	43	36.25

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Career

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IAMO offers positions for junior and experienced researchers, skilled personnel for our administration department, plus traineeships and jobs for student research assistants.

There are the following vacancies at the moment:

- *PhD position (m/f) within the DFG Research Group "FORLand - Agricultural Land Markets - Efficiency and Regulation" (Application deadline: 31 January 2018)*
- *PhD position (m/f) within the EU Project "SURE-Farm – Sustainable Resilient EU Farming Systems" (Application deadline: 31 January 2018)*

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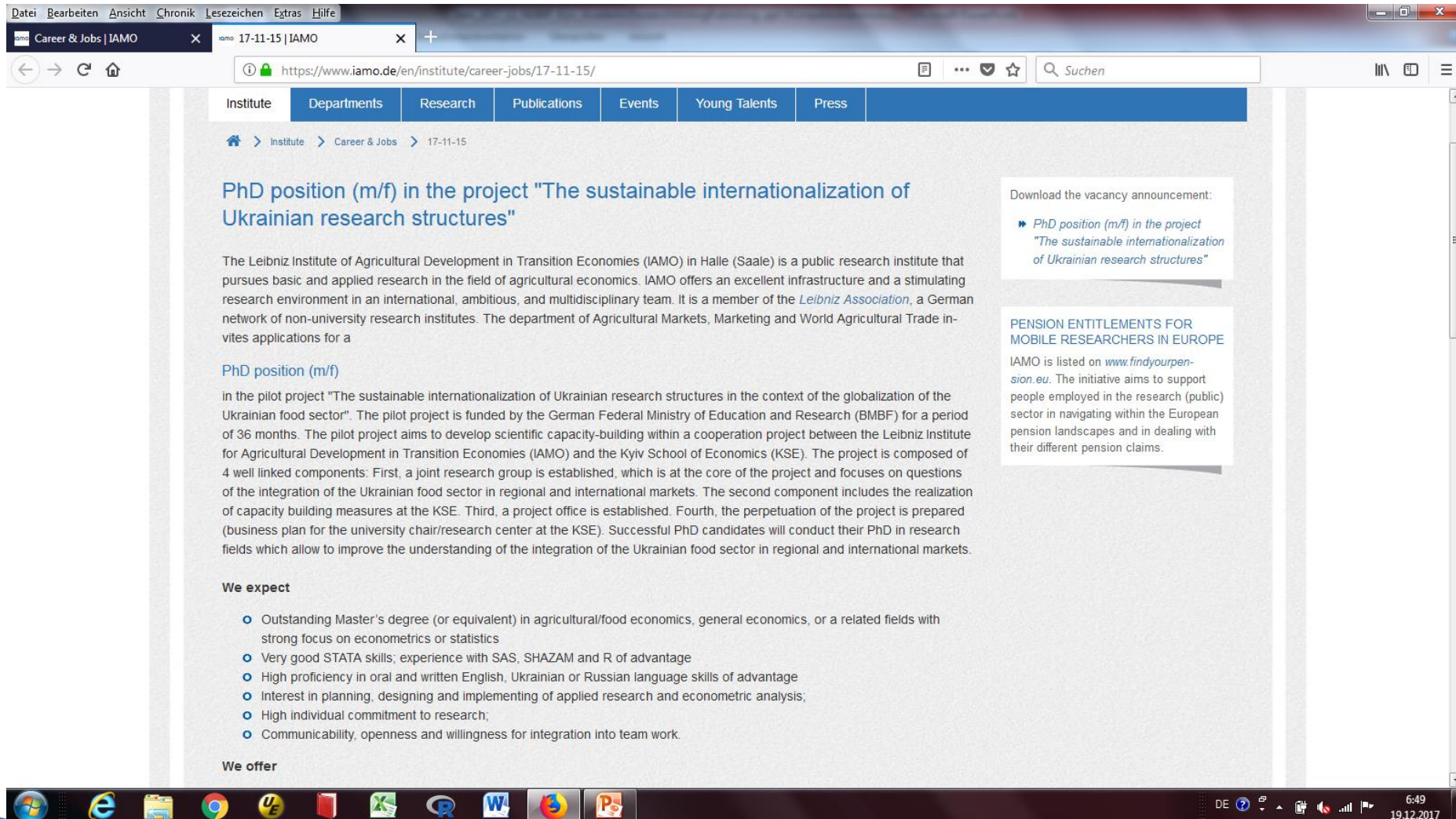
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The screenshot shows a web browser window displaying the IAMO website. The browser's address bar shows the URL <https://www.iamo.de/en/institute/career-jobs/17-11-15/>. The website's navigation menu includes 'Institute', 'Departments', 'Research', 'Publications', 'Events', 'Young Talents', and 'Press'. The main content area features a blue header for the job listing: 'PhD position (m/f) in the project "The sustainable internationalization of Ukrainian research structures"'. Below the header, there is a paragraph describing the Leibniz Institute of Agricultural Development in Transition Economies (IAMO) and its research focus. A 'We expect' section lists requirements for applicants, such as a Master's degree in agricultural/food economics and strong skills in econometrics or statistics. A 'We offer' section is also present. On the right side of the page, there are two callout boxes: one for downloading the vacancy announcement and another for pension entitlements for mobile researchers in Europe. The Windows taskbar at the bottom shows various application icons and the system clock indicating 6:49 on 19.12.2017.

Institute > Career & Jobs > 17-11-15

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PhD position (m/f)

in the pilot project "The sustainable internationalization of Ukrainian research structures in the context of the globalization of the Ukrainian food sector". The pilot project is funded by the German Federal Ministry of Education and Research (BMBF) for a period of 36 months. The pilot project aims to develop scientific capacity-building within a cooperation project between the Leibniz Institute for Agricultural Development in Transition Economies (IAMO) and the Kyiv School of Economics (KSE). The project is composed of 4 well linked components: First, a joint research group is established, which is at the core of the project and focuses on questions of the integration of the Ukrainian food sector in regional and international markets. The second component includes the realization of capacity building measures at the KSE. Third, a project office is established. Fourth, the perpetuation of the project is prepared (business plan for the university chair/research center at the KSE). Successful PhD candidates will conduct their PhD in research fields which allow to improve the understanding of the integration of the Ukrainian food sector in regional and international markets.

We expect

- Outstanding Master's degree (or equivalent) in agricultural/food economics, general economics, or a related fields with strong focus on econometrics or statistics
- Very good STATA skills; experience with SAS, SHAZAM and R of advantage
- High proficiency in oral and written English, Ukrainian or Russian language skills of advantage
- Interest in planning, designing and implementing of applied research and econometric analysis;
- High individual commitment to research;
- Communicability, openness and willingness for integration into team work.

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1. Вступ

- Постановка проблеми;
- Проблематика та мотивація дослідження;
- Мета та цілі дослідження;
- Вклад та особливості дослідження;
- Структура статті

Oleksandr Perekhozhuk*, Heinrich Hockmann, Imre Fertő, and Lajos Zoltán Bakucs

Identification of Market Power in the Hungarian Dairy Industry: A Plant-Level Analysis

Abstract: The objective of this paper is to provide an alternative model which can be used to test for oligopsony market power applying plant-level data. For this purpose, we took into account empirical studies and specific developments in the Hungarian dairy industry and specified a model that provides useful benchmarks for an econometric test of market power. The results of the econometric analysis show that the effects from policy changes in Hungary, as well as from plant specific issues are highly statistically significant, and produce evidence suggesting the exercise of oligopsony market power in the Hungarian dairy industry.

Keywords: Hungarian dairy industry, market power, oligopsony, translog

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1 Introduction

Since the 1980s, numerous studies on New Empirical Industrial Organization (NEIO) have been conducted. These studies paid special attention to measuring market power in agricultural and food markets. In most of these studies, e.g. Schroeter (1988), Azzam and Pagoulatos (1990), and Schroeter and Azzam (1990), evidence of buyer and/or seller market power in the U.S. beef packing industry was produced by interpreting market level data. Morrison Paul (2001), conducting a plant-level analysis,

found market power to be present in both the cattle input and beef output market. In contrast to the majority of these studies, Muth and Wohlgenant (1999) could not prove the existence of oligopsony power in the U.S. beef packing industry. A result that was also obtained by Hyde and Perloff (1998) for oligopsony market power in the Australian retail meat sector, and by Quagraine et al. (2003) for processor power in the Canadian cattle and hog markets.

In the recent past, agricultural economists have started to focus on the analysis of market structure and pricing in the market for raw milk in the Central and Eastern European Countries (CEECs). Perekhozhuk (2007) used a production function framework to investigate production technology and to test for market power in the Ukrainian milk processing industry. Anders (2008) estimated the degree of oligopoly and oligopsony market power in the German food retail industry by evaluating a set of monthly retail beef and pork marketing data of the federal state of Hesse. Applying the revenue function approach, Hockmann and Vöneki (2009) found considerable oligopsony market power in the Hungarian milk market. The econometric results obtained by Bakucs et al. (2010) have revealed the existence of oligopsony market power in the Hungarian slaughter hog market.

At this point, it is necessary to underline that all of these studies relied on the New Empirical Industrial Organization theory (NEIO) and used market-level data, which were available only to a limited extent, to estimate the degree of market power at a national level. At a regional level, as far as we know, the degree of market power has been estimated only by Wann and Sexton (1992), Welhwa and Azzam (1996), Koontz and Garcia (1997), Anders (2008) as well as Perekhozhuk, Grings, and Glauhen (2009); and in so doing have found evidence of market power.

There are a lot of empirical studies that have estimated and tested for oligopoly and/or oligopsony power on the basis of industry-level data, while there is only little literature on such studies analyzing plant-level data. Morrison Paul (2001), using plant-level data of U.S.

2. Огляд літератури

2. Огляд літератури

- Огляд емпіричних досліджень;
- Дискусія підходів та методів;
- Дискусія стосовно типу використаних даних;
- Порівняння результатів попередніх досліджень

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Table 1. Overview of Empirical Studies of Market Power Estimates for Agri-food and Related Industries.

Author(s) (Year)	Country	DA ^a	DF ^b	TP ^c	Industry/Market	Approach	Functional Form ^d					Method ^f	Model ^g	Market Power	Lerner Index ^h						
							P/C/R/PF	D	S	NE ^e											
Anders (2008)	Germany	R	M	1995–2000	Retail beef	GIM	–	LIN	LIN	3	n.a.	θ	0.089	0.033							
					Retail pork								ϕ	0.176	0.103						
Appelbaum (1982)	USA	N	A	1947–1971	Textile	PTA	GLC	DL	–	5	FIML	θ	0.0368	0.1960							
					Tobacco								θ	0.4019	0.6508						
Azzam (1997)	USA	N	A	1970–1992	Beef packing	PTA	GLC	–	DL	2	N3SLS	Φ	–0.799	0.238							
Azzam and Pagoulatos (1990)	USA	N	A	1959–1982	Meat	PTA	TLPF	–	–	5	BSLS	θ	0.223	0.460							
					Livestock								ϕ	0.178	1.1						
Bakucs <i>et al.</i> (2009)	Germany	N	M	1993–2003	Hogs	PTA	TLPF	–	TL	3	N3SLS	ϕ	0.0724	n.a.							
	Hungary	N	M	1995–2004	Hogs								ϕ	0.0284	n.a.						
Bergman and Brännlund (1995)	Sweden	N	A	1960–1988	Pulp and paper	PTA	GLP	–	DL	3	N3SLS	ϕ	0.22	n.a.							
														FIML	ϕ	1.05	n.a.				
Bettendorf and Verboven (2000)	Dutch	N	M	1992–1996	Coffee	GIM	–	LOG	–	2	GMM	θ	0.107	0.340							
								LIN					θ	0.031	0.147						
								Q					θ	0.016	0.069						
Bhuyan and Lopez (1997)	USA	N	A	1972–1987	Food	PTA	TLC	DL	–	6	N3SLS	θ	0.180	0.330							
					Tobacco								θ	0.211	0.369						
Bhuyan and Lopez (1998)	USA	N	A	1972–1987	Food and tobacco	PTA	TLC	DL	–	6	N3SLS	θ	0.183	0.334							
					Cereal breakfast								θ	0.550	–						
Buschena and Perloff (1991)	USA	N	A	1959–1987	Pet food industry							θ	0.014	–							
Chidmi <i>et al.</i> (2005)	USA	R	W	1996–2000	Coconut oil	GIM	–	LIT	LIN	3	N3SLS	Θ	0.578	0.61							
Chirinko and Fazarri (1994)	USA	F	A	1973–1986	Retail milk	GIM	–	DL	–	2	SUR	θ	0.1663	0.2609							
					Malt beverages								PTA	TLC	–	–	3	N3SLS	θ	0.307	n.a.
Deodhar and Sheldon (1995)	Germany	N	A	1966–1993	Textile							θ	0.160	n.a.							
Deodhar and Sheldon (1996)	Germany	N	A	1966–1993	Banana imports	GIM	–	LIT	–	2	2SLS	Θ	0.29	n.a.							
Deodhar and Sheldon (1997)	Germany	N	A	1970–1992	Banana imports	GIM	–	LIT	–	1	TEM	Θ	0.20	n.a.							
Genesove and Mullin (1998)	World	W	A	1966–1993	Soymeal exports	GIM	–	LIT	–	2	N3SLS	Θ	0.04	n.a.							
Gohin and Guyomard (2000)	USA	N	A	1890–2014	Sugar industry	GIM	–	LIN	–	1	NIV	θ	0.05	0.11							
					Dairy products								GIM	–	DL	DL	3	BSLS	θ/ϕ	–0.0187	0.2002
					Meat products													θ/ϕ	–0.0338	0.1743	
	France	N	A	1977–1993	Other food products							θ/ϕ	0.0103	0.1184							

(Continued)

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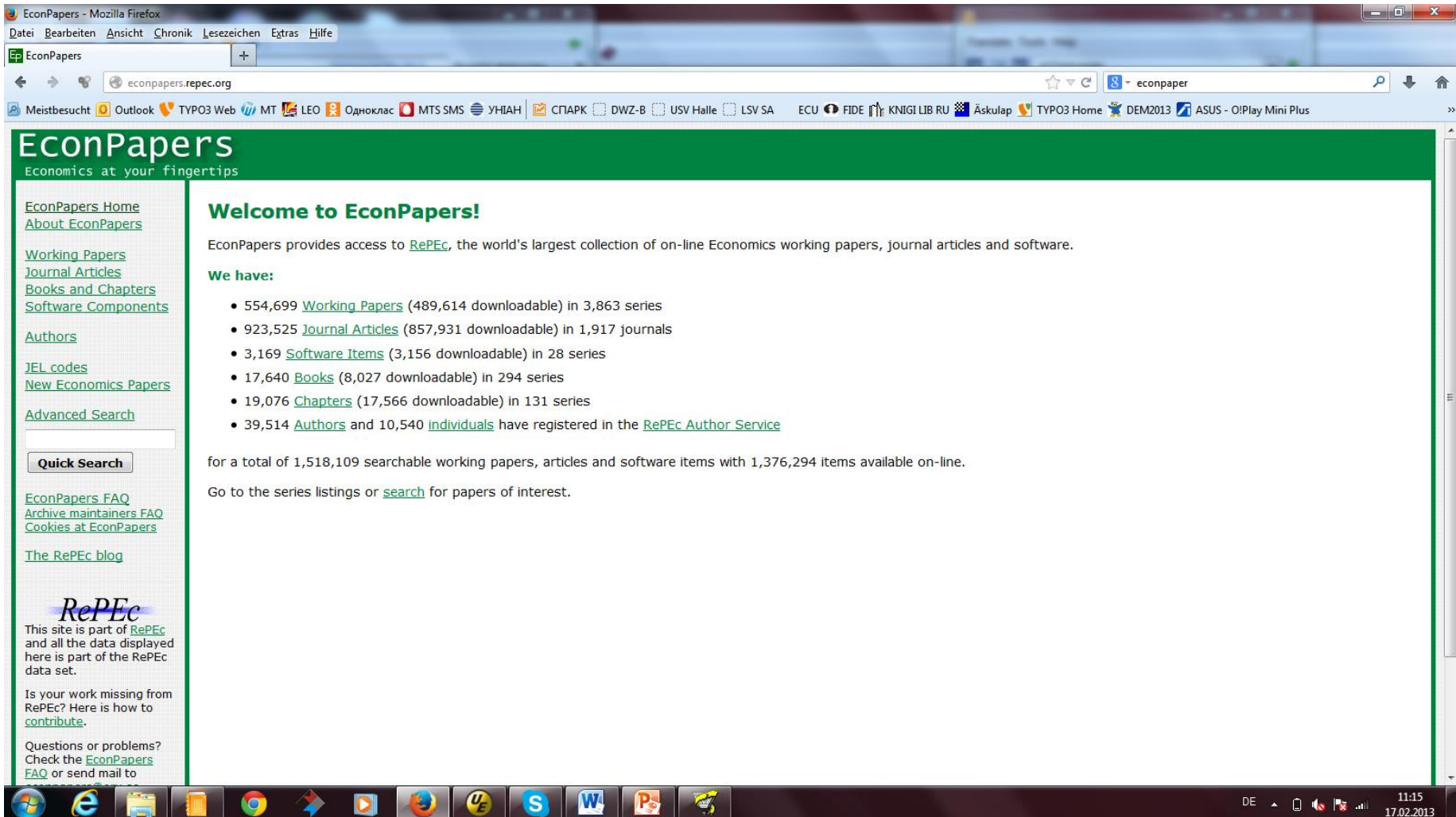
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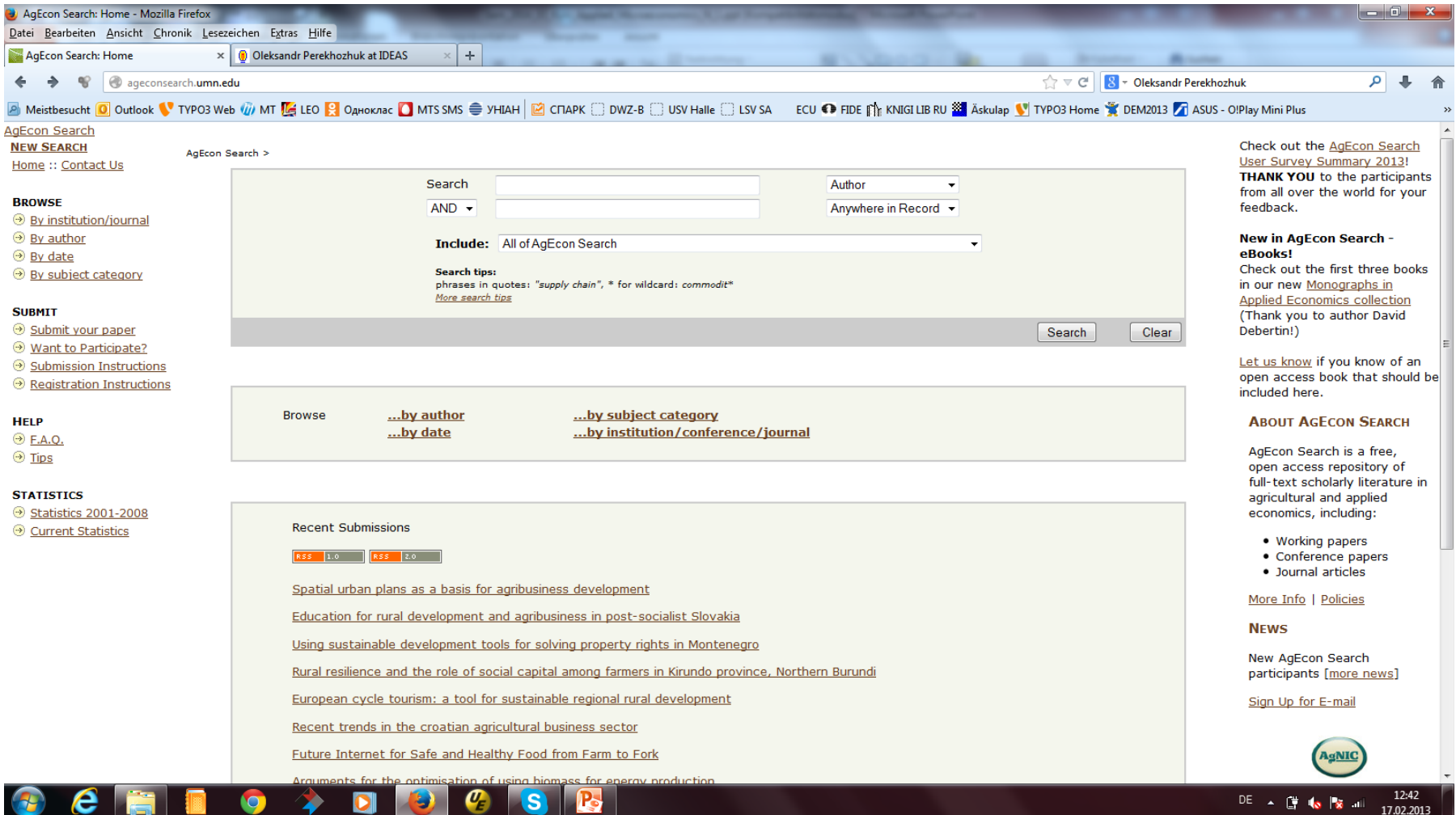
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3. Теоретичні основи

3. Теоретичні основи

- Теоретичні основи дослідження;
- Базова модель та її інтерпретація;
- Розширення, адаптація та налаштування моделі.

Базові функції моделей:

- виробнича функція $Q = f(X, N)$;
- функція вартості $C = c(Q, W, Z)$;
- функція прибутку $\pi = \pi(W, P, Z)$;
- функція виручки $R = r(X, N, P)$;
- функція попиту $X = s(W, S)$;
- функція пропозиції $X = d(P, S)$;

3 Theoretical framework

Assuming that there are N dairy plants (milk processors) in the milk processing, the industry is producing a homogeneous product (y) by employing the two factors, raw milk (m) and other non-agricultural inputs (z). The production function of the i th dairy plant is given by:

$$y_i = f(m_i, z_i), \quad [1]$$

where y_i is the output quantity of milk and milk products produced by the i th dairy plant, m_i is the input quantity of raw milk bought by the i th dairy plant, and z_i is the quantity of non-agricultural inputs used by this dairy plant.

It is assumed that each dairy plant faces two different market situations: for one thing, it may exercise some buyers' market power when purchasing raw milk inputs m_i , but, for another, all dairy plants act as price takers in both the market for other non-agricultural inputs z_i , and in the selling market of their outputs y_i . The dairy industry's market supply curve in its input market for raw milk can be expressed as inverse function:

$$W_M = g(M, S), \quad [2]$$

where W_M denotes the market price of raw milk, M the total of raw milk purchased by all dairy plants in the dairy industry such that $M = \sum_{i=1}^N m_i$, and S is a vector of supply shifters.

Given the objective of each dairy plant to maximize its profit π_i , and given both the production function [1] and the supply function of raw milk [2], the profit equation for the i th dairy plant may be defined as:

$$\pi_i = P f(m_i, z_i) - W_M m_i - W_2 z_i, \quad [3]$$

where π_i is the profit earned by the i th dairy plant, P is the output price of the milk processing industry, W_M and W_2 are market prices of raw milk and other non-agricultural inputs, respectively.

The first order condition for profit maximization with respect to raw milk input, which allows for imperfect competition in this market, is given by:

$$\frac{\partial \pi_i}{\partial m_i} = P \frac{\partial f(m_i, z_i)}{\partial m_i} - W_M \left(1 + \frac{\varphi_i}{\varepsilon}\right) = 0, \quad [4]$$

or

$\varepsilon = (\partial M / \partial W_M)(W_M / M)$ is the market price elasticity of raw milk supply and f_{m_i} is the marginal product of raw milk input used by the i th dairy plant.

According to Appelbaum (1982), and Azzam and Pagoulatos (1990), the dairy plants' conjectural elasticities provide useful benchmarks for the econometric test for market behavior. If $\varphi_i = 0$, then the input market for raw milk is perfectly competitive, i. e. the marginal product of raw milk of each dairy plant equals the market price W_M . If $\varphi_i = 1$, then the market for raw milk is monopsonistic or the dairy plants act like a monopsony (cartel) and consequently the marginal factor cost should be equal to the value marginal product. Intermediate values of φ_i imply the presence of oligopsonistic market behavior in varying degrees. An implication that leaves the first-order condition open to the interpretation that the "perceived" marginal factor cost equals the aggregate value of the marginal products of raw milk.

4 Econometric specification of the model

Due to missing firm-level data, many empirical NEIO studies alternatively estimated industry's average conjectural elasticities applying industry-level data to a modified framework including additional assumptions about conjectural elasticities and marginal products, respectively. In contrast to these studies, we used dairy plant data to estimate plant's conjectural elasticities. For econometric implementation, however, we needed to select a specific form of production function [1]. In NEIO studies, the production technology is usually represented by a flexible function form, e.g. the translog production function which was introduced by Christensen, Jorgenson, and Lau (1971, 1973).

The translog production function, in the context of plant-level data, can be written as follows:

$$\ln y_i = a_0 + \sum_{j=1}^J a_j \ln x_{ij} + \frac{1}{2} \sum_{j=1}^J \sum_{k=1}^K a_{jk} \ln x_{ij} \ln x_{ik} + \gamma_i t + \frac{1}{2} \gamma_{tt} t^2 + \sum_{j=1}^J \gamma_{jt} \ln x_{ij} t, \quad [6]$$

where subscript i is the index of plants in the dairy industry ($i = 1, 2, \dots, N$) and $j = 1, 2, \dots, J$; $k = 1, 2, \dots, K$

4 Дані дослідження

- Змінні моделі
- Описова статистика (Розмір статистичної вибірки, мінімальні, максимальні та середні значення змінних)
- Джерела походження даних

Table 6 Summary statistics of the plant-level data.

Variable	Description	Mean	Std. Dev.	Minimum	Maximum
y	Production output (net revenue, mio HUF)	1,466.7	1,981.7	3.717	12,234.7
m	Material input (material cost, mio HUF)	1,258.7	1,713.5	1.859	11,024.2
c	Capital input (tangible assets, mio HUF)	232.6	320.6	0.536	1,778.4
l	Labor input (number of employees)	298.7	333.4	10	1,874
W_M	Farm price of raw milk (100 HUF per kg)	18.3	1.7	13.9	20.4
P	Retail price of milk (100 HUF per kg)	35.1	2.7	31.5	41.0
t	Time ($t = 1993, \dots, 2006$)	1,998.6	3.8	1993	2006
PC	Policy change	0.1388	0.3462	0	1
SE	Scale of enterprise	0.2893	0.4540	0	1
PE	Private enterprises	0.5740	0.4950	0	1
FE	Foreign enterprises	0.2291	0.4208	0	1
GE	Government enterprises	0.1759	0.3812	0	1

Notes: The Hungarian forint, denoted by the ISO code HUF, is the official currency of Hungary. For the dummy variables, policy changes (PC), scale of enterprise (SE), private (PE), foreign owned (FE), and government enterprises (GE), the figure is the percentage of plants that take value 1, for example, 57.40% of dairy plants are privately owned or 17.59% of dairy plants are government owned.

Source: Own calculations based on the data from the Hungarian Tax Authority and the Institute of Economics of the Hungarian Academy of Science, respectively.

- Продовольча та сільськогосподарська організація ООН (ФАО) (англ. Food and Agriculture Organization, FAO) - FAOSTAT
- Міністерство сільського господарства США (англ. United States Department of Agriculture, USDA)
- Всесвітній Банк (англ. World Bank, WB)
- Міжнародний валютний фонд (МВФ) (англ. International Monetary Fund, IMF)
- Статистичне бюро Європейського співтовариства (англ. Statistical Office of the European Community, EUROSTAT)
- Державні статистичні служби, наприклад УКРСТАТ, DESTATIS (нім. Statistisches Bundesamt) та інші

Відкритті бази даних: FAOSTAT

FAOSTAT - Mozilla Firefox
Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe
FAOSTAT
faostat.fao.org
Meistbesucht Outlook TYPO3 Web MT LEO Одноклас MTS SMS УНІАН СПАРК DWZ-B USV Halle LSV SA ECU FIDE КНИГИ LIB RU Askulap TYPO3 Home DEM2013 ASUS - O!Play Mini Plus
english français español

FAOSTAT
Food and Agriculture Organization of the United Nations

The Statistics Division of the FAO has launched a new version of the FAOSTAT, which is part of the organization's mission to improve data collection and dissemination for development and the fight against global hunger and malnutrition.

The new platform continues to offer free and easy access to data for 245 countries and 35 regional areas from 1961 through the most recent year available. Enhanced features include browsing and analysis of data, an advanced interactive data download, and enhanced data exchange through web services.

It will be possible to access both versions in the coming months. Please feel free to submit feedback on the new platform.

OPEN FAOSTAT CLASSIC

OPEN THE NEW FAOSTAT

13:36
17.02.2013

Відкритті бази даних: EUROSTAT

The screenshot displays the Eurostat website interface. At the top, there is a navigation bar with the Eurostat logo and the tagline "Your key to European statistics". Below this, there are links for "News", "Data", "Publications", "About Eurostat", and "Help". The main content area is titled "Database" and features a "Data Navigation Tree" on the right side. This tree is organized into two main sections: "Database by themes" and "Tables by themes". The "Database by themes" section includes categories such as "General and regional statistics", "Economy and finance", "Population and social conditions", "Industry, trade and services", "Agriculture, forestry and fisheries", "International trade", "Transport", "Environment and energy", and "Science, technology, digital society". The "Tables by themes" section mirrors these categories with more specific sub-categories like "Agriculture (t_agr)", "Forestry (t_for)", and "Fisheries (t_fish)". On the left side of the "Database" section, there are various links for "Information", "Browse statistics by theme", "Statistics A - Z", "Population Census 2011", "Experimental statistics", "Bulk download", "Web Services", "Access to microdata", "GISCO: Geographical Information and maps", and "Metadata". The browser's address bar shows the URL "ec.europa.eu/eurostat/en/data/database". The Windows taskbar at the bottom indicates the date and time as 1:10 on 19.12.2017.

- Amadeus - European Company (Data Bureau van Dijk / Moody's Analytics)
- S&P Global Market Intelligence (Standard & Poor's)
- Datastream (Thomson Reuters)
- Global Financial Data Finaeon (GFD Corp.)
- GfK (нім. Gesellschaft für Konsumforschung (англ. Society for Consumer Research))
- SPARK-Interfax, Russia

1. Дані динамічних рядів (time series)

Річні (квартальні, щомісячні і т.д.) дані одного домашнього господарства, підприємства, регіону (району, області), галузі або сектора економіки, країни і т.д.

$$Y_t, M_t, L_t, A_t, E_t \quad \text{де} \quad t = 1, \dots, T.$$

$$\ln Y_t = \ln \alpha_0 + \alpha_M \ln M_t + \alpha_K \ln K_t + \alpha_L \ln L_t + \alpha_E \ln E_t + \gamma_t T$$

2. Просторові (структурні) дані (cross-section data)

Дані одних і тих же економічних об'єктів (домашніх господарств, підприємства, районів, областей, регіонів, країн) за один і той же період часу (як правило рік, квартал, місяць і т.д.)

$$Y_i, M_i, L_i, A_i, E_i \quad \text{де} \quad i = 1, \dots, N.$$

$$\ln Y_i = \ln \alpha_0 + \alpha_M \ln M_i + \alpha_K \ln K_i + \alpha_L \ln L_i + \alpha_E \ln E_i$$

3. Панельні дані (cross-section time series data)

Поєднують в собі як просторові (структурні) так і дані динамічних рядів

$Y_{it}, M_{it}, L_{it}, A_{it}, E_{it}$ де $i = 1, \dots, N$ та $t = 1, \dots, T$.

$$\ln Y_{it} = \ln \alpha_0 + \alpha_M \ln M_{it} + \alpha_K \ln K_{it} + \alpha_L \ln L_{it} + \alpha_E \ln E_{it} + \gamma_{it} T$$

5 Емпіричний аналіз

- Економетрична імплементація;
- Вибір функціональних форм;
- Вибір методів оцінки;
- Інтерпретація параметрів та результатів оцінки

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 by SAGE Publications Ltd

Table 2. Estimation of Elasticities and Parameters of Market Power with Alternative Approaches and Methods.^{a,b}

	Production-Theoretic Approach (PTA)												General Identification Method (GIM)							
	Model 1 ^c				Model 2 ^d				Model 3 ^e				Model 4 ^f				Model 5 ^g			
	N3SLS	I3SLS	GMM	FIML	N3SLS	I3SLS	GMM	FIML	N3SLS	I3SLS	GMM	FIML	N3SLS	I3SLS	GMM	FIML	N3SLS	I3SLS	GMM	FIML
α_M	1.022‡	1.024‡	1.024‡	1.024‡	0.615‡	0.532‡	0.689‡	0.524‡	0.714‡	0.842‡	0.757‡	0.786‡	1.026‡	1.025‡	1.023‡	1.022‡	0.949‡	0.768‡	1.002‡	1.095‡
α_L	0.911*	0.419	1.320‡	0.787	0.816‡	0.812‡	0.946‡	0.776	1.087‡	0.938‡	1.065‡	1.003*								
α_K	0.042	-0.011	-0.085	-0.071	-0.142	-0.215	-0.163‡	-0.223	-0.084	-0.128	-0.136	-0.122								
α_E	0.183‡	0.321‡	0.070	0.266‡	0.377‡	0.412‡	0.279‡	0.420‡	0.239‡	0.133‡	0.180‡	0.177‡								
γ_T	0.002	-0.001	0.003	0.000	0.001	0.000	0.001	0.000	0.003	0.002	0.002	0.002								
β_M	0.351‡	0.257‡	0.374‡	0.889‡	0.409‡	0.644‡	0.293‡	0.556‡	0.409	0.644	0.293	0.556	0.360‡	0.373‡	0.317‡	0.418	0.504‡	0.321‡	0.530‡	0.583‡
β_D	0.032	-0.144	0.084	-0.124	-0.027	0.157	0.071	0.082					0.089	0.109	0.074	0.189	-0.001	0.205	-0.015	0.124
β_B	0.306‡	0.199‡	0.323‡	0.143*	0.330‡	0.008	0.365‡	0.109					0.350‡	0.346‡	0.318‡	0.328‡	0.364‡	0.282‡	0.355‡	0.288‡
β_F	-0.252	-0.059	-0.456	-0.162	-0.449‡	-0.139	-0.526‡	-0.213					-0.382	-0.395	-0.267‡	-0.408	-0.565‡	-0.457‡	-0.530‡	-0.551‡
ν_C	0.903	1.960	-0.175	1.901	-2.137*	0.399	-2.160‡	-0.265					0.370	0.299	0.876	0.193	-1.892	-1.305	-1.496	-1.105
δ_T	0.004	0.013‡	0.000	0.004	-0.010	-0.001	-0.009‡	-0.003					0.002	0.001	0.004	-0.001	-0.010	-0.006	-0.009	-0.008
ϕ	0.011	0.010*	0.008	-0.002	0.148‡	0.298‡	0.086‡	0.257‡	0.120‡	0.110‡	0.075‡	0.125‡	0.014	0.015	0.012‡	0.001	0.033	0.070*	0.010	-0.024
LI	0.031	0.038‡	0.022‡	-0.003	0.361‡	0.464‡	0.293‡	0.463‡	0.294‡	0.171‡	0.254‡	0.225‡	0.039	0.039	0.037‡	0.003	0.065	0.218‡	0.018	-0.040

Notes: ^a Abbreviations are as follows: N3SLS, nonlinear three-stage least squares method; I3SLS, iterative three-stage least squares method; GMM, generalized method of moments; and FIML, full information maximum likelihood method.

^b Symbols ‡, † and * denote significance at the 1%, 5%, and 10% levels, respectively.

^c Model 1: translog production function (5), FOC (14), and translog supply function (8) nontruncated.

^d Model 2: translog production function (5), FOC (15), and translog supply function (8) truncated (quasi-Cobb–Douglas).

^e Model 3: translog production function (5), FOC (7) and the estimated supply elasticities of Model 2 were used as fixed value parameter restrictions.

^f Model 4: FOC (14) and translog supply function (8) nontruncated.

^g Model 5: FOC (15) and translog supply function (8) truncated (quasi-Cobb–Douglas).

ECONOMETRIC ANALYSIS OF MARKET POWER

1. Методи оцінки одного рівняння регресії (оцінка з обмеженою інформацією)

- Метод найменших квадратів - OLS
- Непрямий метод найменших квадратів - ILS
- Двокроковий метод найменших квадратів - 2SLS
- Метод максимальної правдоподібності з обмеженою інформацією - LIML

$$\ln Y = \ln \alpha_0 + \alpha_M \ln M + \alpha_K \ln K + \alpha_L \ln L + \alpha_E \ln E + \gamma_T T + \varepsilon$$

2. Методи оцінки системи регресійних рівнянь

a) Метод оцінки системи зовні незв'язаних рівнянь - SUR
(Seemingly unrelated regression)

b) Методи оцінки системи одночасних рівнянь (оцінка з повною інформацією)

- Трьох кроковий метод найменших квадратів -3SLS
- Метод максимальної правдоподібності з повною інформацією - FIML

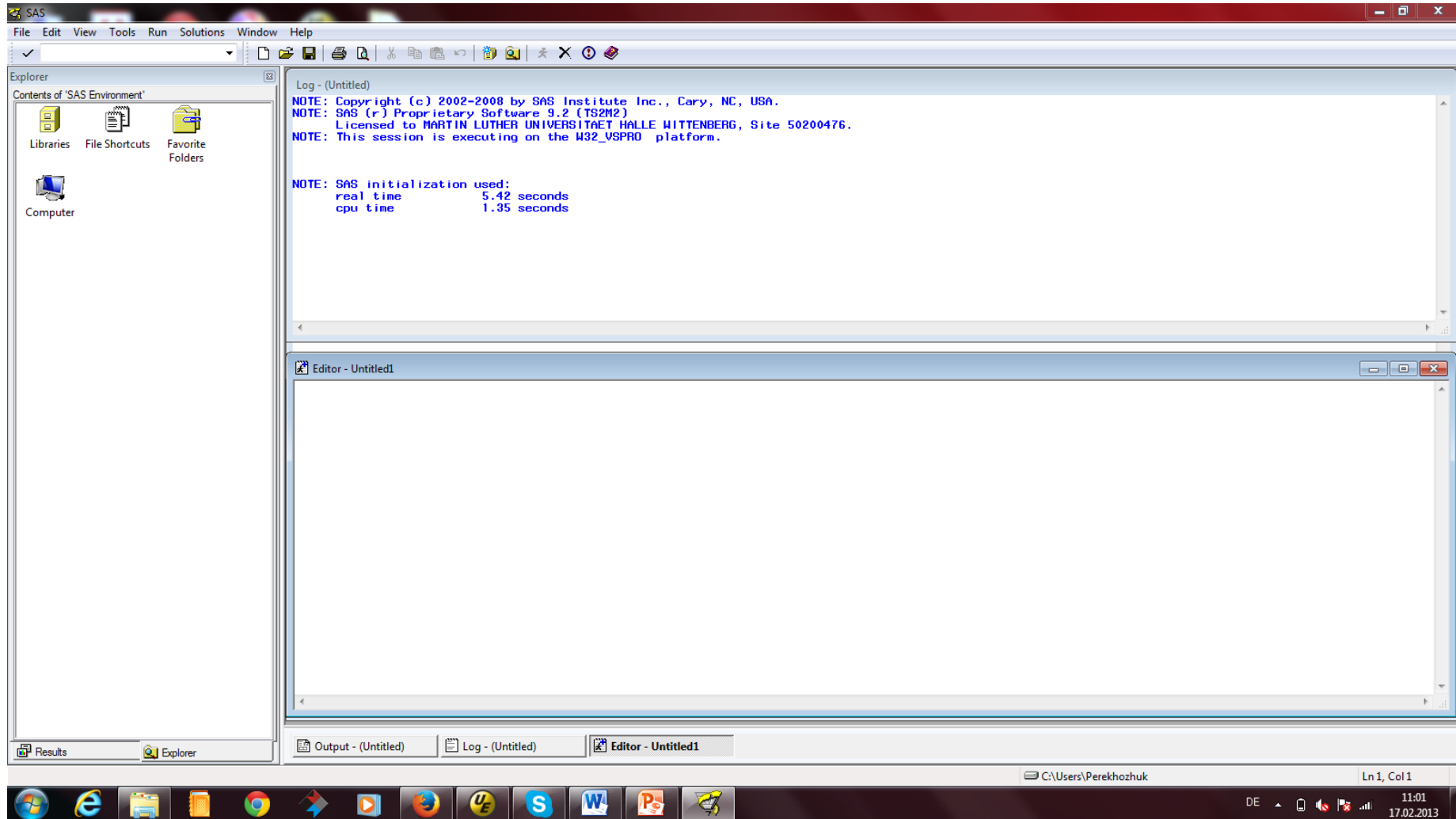
$$\ln Y = \ln \alpha_0 + \sum_{j=1}^4 \alpha_j \ln X_j + \frac{1}{2} \sum_{j=1}^4 \sum_{l=1}^4 \alpha_{jl} \ln X_j \ln X_l + \gamma_T T + \frac{1}{2} \gamma_{TT} T^2 + \sum_{j=1}^4 \gamma_{jT} \ln X_j T + \varepsilon$$

$$S_j = W_j X_j / PY = \alpha_j + \sum_{l=1}^4 \alpha_{jl} \ln X_l + \gamma_{jT} T + \varepsilon$$

1. Платні економетричні програми:

- SPSS (Statistical Package for the Social Sciences) <http://www.spss.com>
- SAS (Statistical Analysis Software) <http://www.sas.com>
- SHAZAM <http://shazam.econ.ubc.ca>
- STATA <http://www.stata.com>
- Eviews (Econometric Views) <http://www.eviews.com>
- Statistica <http://www.statsoft.com>
- GAUSS <http://www.aptech.com>

Економетрична програма SAS



Економетрична програма STATA

The screenshot shows the Stata/SE 12.1 software interface. The main window displays the following text:

```
(R)
-----
Stata 12.1 Copyright 1985-2011 StataCorp LP
Statistics/Data Analysis StataCorp
Special Edition 4905 Lakeway Drive
College Station, Texas 77845 USA
800-STATA-PC http://www.stata.com
979-696-4600 stata@stata.com
979-696-4601 (fax)

2-user Stata network perpetual license:
Serial number: 40120525313
Licensed to: User-IAMO
IAMO-Halle

Notes:
1. (/v# option or -set maxvar-) 5000 maximum variables
2. New update available; type -update all-
```

The interface includes a menu bar (File, Edit, Data, Graphics, Statistics, User, Window, Help), a toolbar, a Review window, a Command window, and a Properties window. The Properties window shows the following data:

Variables	
Name	
Label	
Type	
Format	
Value Label	
Notes	

Data	
Filename	
Full Path	
Label	
Notes	
Variables	0
Observations	0
Size	0
Memory	64M

The Windows taskbar at the bottom shows the system tray with the date 16.03.2014 and time 23:33.

2. Безкоштовні економетричні програми:

- Gretl (Gnu Regression, Econometrics and Time-series)
<http://gretl.sourceforge.net>
- Statistical Data Analysis R <http://cran.r-project.org>

The Comprehensive R Archive Network

Download and Install R

Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** users most likely want one of these versions of R:

- [Download R for Linux](#)
- [Download R for \(Mac\) OS X](#)
- [Download R for Windows](#)

R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.

Source Code for all Platforms

Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!

- The latest release (2014-03-06, Warm Puppy) [R-3.0.3.tar.gz](#), read [what's new](#) in the latest version.
- Sources of [R alpha and beta releases](#) (daily snapshots, created only in time periods before a planned release).
- Daily snapshots of current patched and development versions are [available here](#). Please read about [new features and bug fixes](#) before filing corresponding feature requests or bug reports.
- Source code of older versions of R is [available here](#).
- Contributed extension [packages](#)

Questions About R

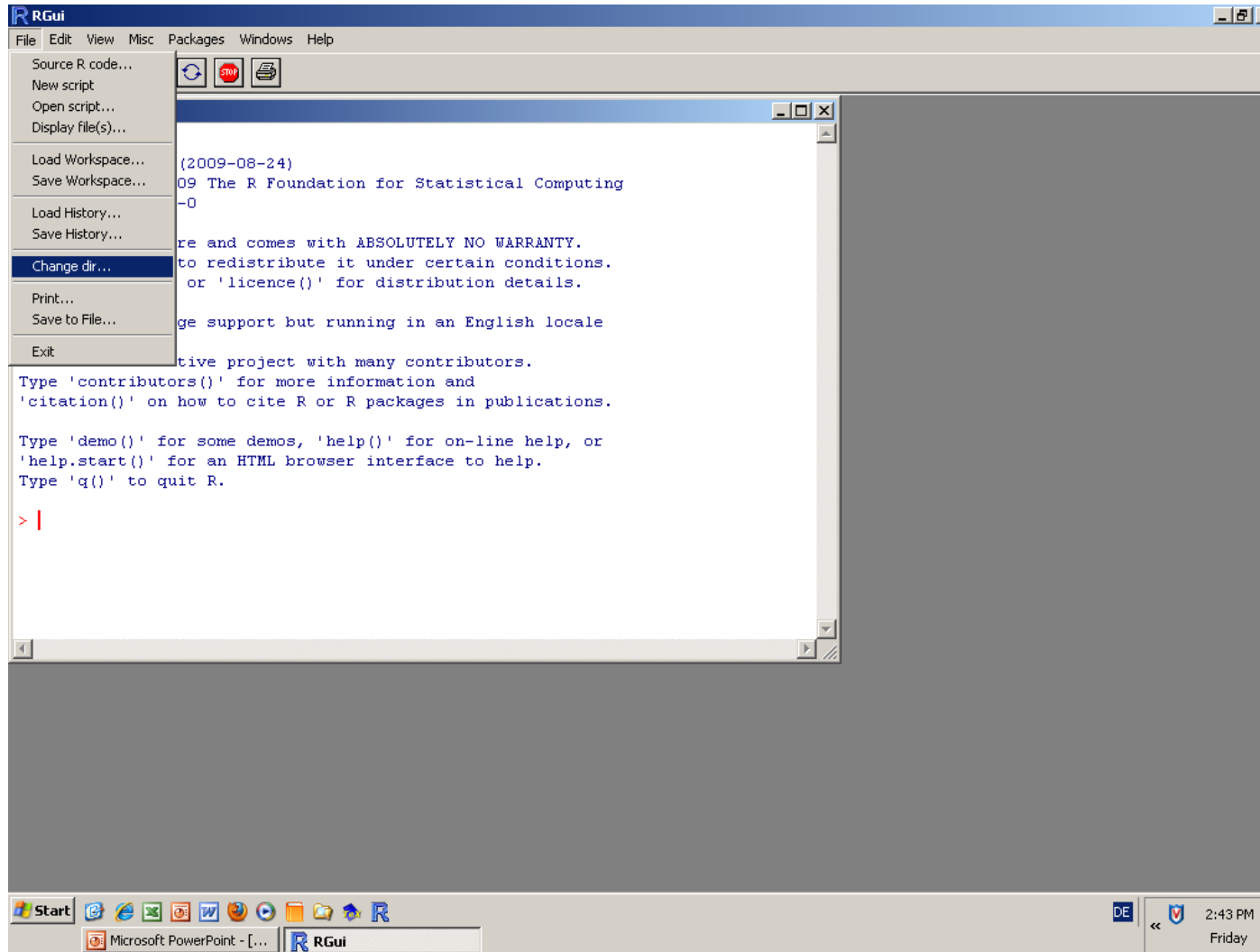
- If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

What are R and CRAN?

R is 'GNU S', a freely available language and environment for statistical computing and graphics which provides a wide variety of statistical and graphical techniques: linear and nonlinear modelling, statistical tests, time series analysis, classification, clustering, etc. Please consult the [R project homepage](#) for further information.

CRAN is a network of ftp and web servers around the world that store identical, up-to-date, versions of code and documentation for R. Please use the CRAN [mirror](#) nearest to you to minimize

Statistical Data Analysis R (2)



6. Результати дослідження

- Результати економетричної оцінки моделі;
- Статистичні висновки;
- Тестування специфікації моделі;
- Тестування гіпотез;
- Перевірка статистичних гіпотез

Table 8 Estimated parameters of NLS estimation with robust standard errors

Parameter	Model 1		Model 2		Model 3		Model 4	
	Coef.	Std. Err.	Coef.	Std. Err.	Coef.	Std. Err.	Coef.	Std. Err.
α_0	-0.0651***	(0.0093)	-0.0602***	(0.0092)	-0.0617***	(0.0085)	-0.0616***	(0.0085)
α_m	0.9738***	(0.0059)	0.9359***	(0.0103)	0.9553***	(0.0102)	0.9519***	(0.0097)
α_c	0.0197**	(0.0079)	0.0262***	(0.0079)	0.0131*	(0.0075)	0.0124*	(0.0074)
α_l	0.0231*	(0.0122)	0.0600***	(0.0146)	0.0447***	(0.0138)	0.0488***	(0.0135)
γ_t	-0.0031**	(0.0016)	-0.0028*	(0.0015)	-0.0021	(0.0014)	-0.0020	(0.0014)
α_{mm}	0.1523***	(0.0054)	0.1460***	(0.0054)	0.1461***	(0.0050)	0.1484***	(0.0049)
α_{cc}	0.0203**	(0.0086)	0.0240***	(0.0084)	0.0126	(0.0079)	0.0084	(0.0079)
α_{ll}	0.0358	(0.0227)	0.0517**	(0.0223)	0.0343	(0.0218)	0.0505**	(0.0207)
γ_{tt}	0.0036***	(0.0008)	0.0031***	(0.0008)	0.0038***	(0.0007)	0.0038***	(0.0007)
α_{mc}	-0.0478***	(0.0060)	-0.0431***	(0.0058)	-0.0271***	(0.0057)	-0.0219***	(0.0058)
α_{ml}	-0.1197***	(0.0099)	-0.1242***	(0.0096)	-0.1204***	(0.0094)	-0.1319***	(0.0090)
α_{cl}	-0.0157***	(0.0015)	-0.0158***	(0.0014)	0.0028	(0.0024)	0.0027	(0.0024)
α_{cl}	0.0678***	(0.0109)	0.0601***	(0.0108)	0.0499***	(0.0102)	0.0498***	(0.0100)
γ_{ct}	-0.0006	(0.0020)	-0.0003	(0.0019)	-0.0035*	(0.0018)	-0.0032*	(0.0018)
γ_{lt}	0.0189***	(0.0029)	0.0199***	(0.0028)	0.0006	(0.0033)	0.0006	(0.0033)
φ_C			-0.0055***	(0.0012)	-0.0722***	(0.0118)	-0.0961**	(0.0392)
φ_C					0.0144***	(0.0031)	0.0136***	(0.0032)
φ_{PC}					0.2749***	(0.0348)	0.2822***	(0.0347)
φ_{SE}					0.0048**	(0.0019)		
φ_{PE}							0.0123	(0.0390)
φ_{PE}							0.0859**	(0.0418)
φ_{GE}							0.0037	(0.0040)

Notes: The values in parentheses are asymptotic standard errors. The superscripts ***, **, and * denote statistical significance at the 1%, 5%, and 10% levels, respectively.

Source: Own estimation based on the data from the Hungarian Tax Authority and the Institute of Economics of the Hungarian Academy of Science, respectively.

Структура дослідження/статті:

1. Вступ
2. Огляд літератури
3. Теоретичні основи
- 4 Дані дослідження
5. Емпіричний аналіз
6. Результати дослідження
7. Висновки

Знання та навіки:

- Мікроекономіка;
- Вища математика;
- Робота з базами даних;
- Програмування;
- Статистика;
- Статистичні програми;
- Економетрика.



Leibniz Institute of Agricultural Development
in Transition Economies

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