
László Á. Kóczy



Contact: QA326

Department of Finance, Faculty of Economic and Social Sciences, Budapest University of Technology and Economics

Magyar tudósok körútja 2, H-1117 Budapest

Email: koczy@finance.bme.hu

Studies: B.A. in Mathematics (Cambridge, 1997), M.Sc. in Economics (Leuven, 1999)

Degree: Ph.D. (Leuven, 2003, cooperative game theory, Supervisor: Luc Lauwers)

Research areas: cooperative game theory – economic theory – experimental economics – matching – social choice theory – voting – risk – networks – scientometrics

Work experience

- 2018 – Budapest University of Technology and Economics, Associate Professor
- 2010 – Head of „Momentum” Game Theory Research Group, Senior Research Fellow, Centre for Economic and Regional Studies, Hungarian Academy of Sciences
- 2010 – 2018 Óbuda University, Associate Professor
- 2007 – 2010 Budapest Tech, College Professor, Vice-Dean for Research
- 2003 – 2009 Maastricht University, Assistant Professor
- 1999 – 2003 Catholic University Leuven, PhD Scholar

Grants

- OTKA K-128573 research grant HUF 23.464, 2018
- OTKA K-109354 research grant HUF 20M, 2013
- MTA Momentum program HUF 200M, 2010
- OTKA NF-72610 research grant HUF 43M, 2008
- Marie Curie Intra-European Fellowship és Reintegration Grant, €175k, 2005, 2008
- Participant in the VICI project of Jean-Jacques Herings „Assessing the Robustness of Key Results in Economics” funded by NWO (Dutch Scientific Research Fund), 2003–2005
- Scholarships by KU Leuven and the Soros Foundation, about € 60k, 1998–2003

10 key publications

- Kóczy, L. Á. (2018). Partition Function Form Games. Theory and Decision Library C 48, Springer International Publishing. <https://doi.org/10.1007/978-3-319-69841-0>
- Kóczy L. Á., Biró P., Sziklai B. (2017): US vs. European Apportionment Practices: The Conflict between monotonicity and proportionality, Trends in Computational Social Choice, ed.: Ulle Endriss, 309–325.

- Kóczy L. Á. (2015): Stationary consistent equilibrium coalition structures constitute the recursive core, *Journal of Mathematical Economics* 61, 104-110.
- Biró, P.; Kóczy L. Á.; Sziklai, B. (2015): Fair apportionment in the view of the Venice Commission's recommendation, *Mathematical Social Sciences* 77, 32-41.
- Kóczy L. Á. (2012): Beyond Lisbon: Demographic trends and voting power in the European Union Council of Ministers, *Mathematical Social Sciences* 63, 152-158.
- Csóka, P., Herings, P.J.J., Kóczy L. Á., Pintér P.M. (2011): Convex and Exact Games with Non-transferable Utility, *European Journal of Operations Research* 209, 57-62.
- Kóczy L. Á. (2007): A recursive core for partition function form games, *Theory & Decision* 63, 41-51.
- Csóka, P., Herings, P.J.J., Kóczy L. Á. (2009): Stable Allocations of Risk, *Games and Economic Behavior* 67, 266-276.
- Kóczy L., L. Lauwers (2007): The Minimal Dominant Set is a Non-Empty Core-Extension, *Games and Economic Behavior* 61, 2., 277-298.
- Kóczy L., L. Lauwers (2004): The Coalition Structure Core is Accessible, *Games and Economic Behavior* 48, 86-93.

Academic activities

- Memberships: Econometric Society, Game Theory Society, Society for Social Choice and Welfare, Hungarian Society for Economics (founder, 2011-2013 president), Society for Economic Modelling
- Memberships in conference committees: Fikusz 2009-10, MKE 2011-12, SING8 – 8th Spain-Italy-Netherlands Meeting on Game Theory, NEXT 2013-16, Annual Financial Markets Liquidity Conference 2014-18, ECMI 2018, and main organizer of GAMES2020, the 6th World Congress of the Game Theory Society.
- Reviewer for *Annals of Op Res*, *Discrete Appl Math*, *Econ Bulletin*, *European Econ Rev*, *European J Op Res*, *European Union Politics*, *Games*, *Games and Econ Behav*, *Int Game Theory Review*, *Int J of Game Theory*, *J of Econ Theory*, *J of Math Econ*, *J of Publ Econ Theory*, *Math Methods of Op Res*, *Math Soc Sci*, *Op Res and Decisions*, *Soc Choice and Welfare*, *Acta Oeconomica*, *Acta Polytechnica Hungarica*, *Alkalmazott Matematikai Lapok*, *Sigma*
- Evaluated for HAS Momentum, NIRDI Research, NNPE, Premium postdoc programmes, for NWO, FNRS and other institutions
- Editor of the *nep-gth* (2005-2017)
- MPRA editor for papers in Hungarian and Dutch.
- Author of the popular koczy.blog.hu academic blog.

International conference presentations

1. Consistent Refinements of the Core of a Partition Function Game. International Conference on Game Theory, Stony Brook, N.Y., 10-14 July 2000
2. Finding the Best Way to Join in: A Dynamic Accession Game. GAMES 2000 – the First World Congress of the Game Theory Society, Bilbao, Spain, 24-28 July 2000
3. The Minimal Dominant Set is a Nonempty Core-Extension. Logic Game Theory and Social Choice 2, St Petersburg, Russia, 21-24 July 2001

4. The Minimal Dominant Set is a Nonempty Core-Extension. Warwick Summer Research Workshop and Conference: New Economies; New Technologies and Public Economics, Warwick, United Kingdom, 37086
5. The Core in the Presence of Externalities. 7th Coalition Theory Workshop, Venice, Italy, 11-12 January 2002
6. The Core in the Presence of Externalities. PET 02 - 3rd International Conference of the Association for Public Economic Theory, Université Paris 1 Panthéon-Sorbonne, Paris, France, 3-6 July 2002
7. The Core in the Presence of Externalities. ICM2002GTA – International Congress of Mathematicians Game Theory and Applications Satellite Conference, Qingdao, China , 37482
8. The Minimal Dominant Set is a Non-Empty Core-Extension. 8th Coalition Theory Workshop, Aix-en-Provence, France, 24-25 January 2003
9. The Minimal Dominant Set is a Non-Empty Core-Extension. 14th Game Theory Festival at SUNY at Stony Brook, Stony Brook, NY, United States, 21-25 July 2003
10. The Minimal Dominant Set is a Non-Empty Core-Extension. WEHIA 2004, Kyoto, Japan, 38136
11. The Minimal Dominant Set is a Non-Empty Core-Extension. GAMES 2004 – the Second World Congress of the Game Theory Society, Marseille, France, 38175
12. The Minimal Dominant Set is a Non-Empty Core-Extension. 27th Seminar on Fuzzy Set Theory: Preferences, Games and Decisions, Linz, Austria, 38756
13. Strategic Power Indices. SING2 - Spain Italy Netherlands Meeting on Game Theory, Foggia, Italy, 14-16 June 2006
14. Strategic Power Indices. 8th Meeting of the Society for Social Choice and Welfare, Istanbul, Turkey, 16-18 July 2006
15. Power indices with endogenously selected infeasible coalitions. LGS5 - 5th International Conference on Logic Game Theory and Social Choice 5, Bilbao, Spain, 20-22 June 2007
16. Sequential coalition formation and the core in the presence of externalities. SING3 - Spain Italy Netherlands Meeting on Game Theory, Madrid, Spain, 4-6 July 2007
17. Quarrelling in Coalitions. EURO XXII, Prague, Czech Republic, 8-11 July 2007
18. Sequential coalition formation and the core in the presence of externalities. Econometric Society European Meeting 2007, Budapest, Hungary, 27-31 August 2007
19. Ranking of academic journals by tournament methods. 22nd Meeting of the European Economic Association, Budapest, Hungary, 27-31 August 2007
20. On the implementation of the recursive core. 9th International Meeting of the Society for Social Choice and Welfare, Montreal, Canada, 19-22 June 2008
21. On the implementation of the recursive core. SING4 - Spain Italy Netherlands Meeting on Game Theory, Wroclaw, Poland, 26-28 June 2008
22. Strategic Power Indices: Quarrelling in Coalitions. Econometric Society European Meeting 2008, Milan, Italy, 27-31 August 2008
23. Sequential coalition formation and the core in the presence of externalities. 14th Coalition Theory Network Workshop, Maastricht, the Netherlands, 23-27 January 2009
24. Stationary consistent equilibrium outcomes constitute the recursive core. SING5 - Spain Italy Netherlands Meeting on Game Theory, Amsterdam, the Netherlands, 1-3 July 2009
25. Quarrelling in coalitions to increase p-power voting. UECE Lisbon Meetings 2009: Game Theory and Applications, Lisbon, Portugal, 5-7 November 2009
26. Quarrelling in coalitions to increase p-power voting. MINT1-International Conference on Models of Influence and Network Theory, Lyon Ecully, France, 15-16 February 2010
27. The Men who Weren't Even there: Legislative voting with absentees. International Conference on the Computational Foundations of Social Choice, Dagstuhl, Germany, 7-12 March 2010
28. Stationary consistent equilibrium outcomes constitute the recursive core. 15th Coalition Theory Network Workshop, Marseille, France, 17-18 June 2010

29. The Men who Weren't Even there: Legislative voting with absentees. SING6 - Spain Italy Netherlands Meeting on Game Theory, Palermo, Italy, 7-9 July 2010
30. The Men who Weren't Even there: Legislative voting with absentees. 10th International Meeting of the Society for Social Choice and Welfare, Moscow, Russia, 21-24 July 2010
31. Quality vs. Quantity. 10th International Meeting of the Society for Social Choice and Welfare, Moscow, Russia, 21-24 July 2010
32. The Men who Weren't Even there: Legislative voting with absentees. The 2nd Annual UECE Lisbon Meetings Game Theory and Applications, Lisbon, 4-6 November 2010
33. Quality vs. Quantity. The 2nd Annual UECE Lisbon Meetings Game Theory and Applications, Lisbon, 4-6 November 2010
34. The Men who Weren't Even there: Legislative voting with absentees. MINT2- 2nd International Conference on Models of Influence and Network Theory, Saint-Etienne, France, 15-16 March 2011
35. Stationary Consistent Equilibrium Coalition Structures Constitute the Recursive Core. Logic Game Theory and Social Choice 7, Bucharest, Romania, 6-8 July 2011
36. Externalities in the game of generator rescheduling on electrical power transmission networks. SING7 - Spain Italy Netherlands Meeting on Game Theory, Paris, France, 18-20 July 2011
37. Power indices when players can commit to quarrel. SING7 - Spain Italy Netherlands Meeting on Game Theory, Paris, France, 18-20 July 2011
38. Resident matching in Hungary. Third Workshop on Matching in Practice, Budapest, Hungary, 40875
39. Quality vs. Quantity. Negative Ties and Social Networks, Budapest, Hungary, 41019
40. Efficiency and stability in electrical power transmission networks: A partition function form approach. MINT3 - 3rd Conference on Models of Influence and Network Theory, Paris, France, 14-15 May 2012
41. Intellectual Influence: Quality versus Quantity. SING8 - Spain Italy Netherlands Meeting on Game Theory, Budapest, Hungary, 16-18 July 2012
42. Stationary consistent equilibrium structures constitute the recursive core. SING8 - Spain Italy Netherlands Meeting on Game Theory, Budapest, Hungary, 16-18 July 2012
43. Stationary consistent equilibrium structures constitute the recursive core. GAMES 2012 - The World Congress of the Game Theory Society, Istanbul, Turkey, 22-26 July 2012
44. Efficiency and stability in electrical power transmission networks: A partition function form approach. 4th LSU Conference on Networks, Baton Rouge, LA, US, 23 February 2013
45. Coalitionally stable networks. PET13 - the 14th International Meeting of the Association for Public Economic Theory, Lisbon, Portugal, 5-7 July 2013
46. Coalitionally stable networks. SING9 - Spain Italy Netherlands Meeting on Game Theory, Vigo, Spain, 8-10 July 2013
47. Coalitionally stable networks. 2013 Asian Meeting of the Econometric Society, Singapore, 2-4 August 2013
48. Fair Apportionment in the View of the Venice Commission's Recommendation. 5th Lisbon Meeting on Game Theory and Applications, Lisbon Portugal, 7-9 November 2013
49. Coalitionally stable networks. 17th IEA World Congress, Dead Sea, Jordan, 6-10 June 2014
50. A risk based core. 12th Meeting of the Society for Social Choice and Welfare, Boston College, Boston, MA, USA, 18-21 June 2014
51. A risk based core. SING10 - 10th Spain Italy Netherlands Meeting on Game Theory, Krakow, Poland, 7-9 July 2014
52. Coalitionally stable networks. 6th UECE Lisbon Meeting on Game Theory and Applications, Lisbon, Portugal, 6-8 November 2014
53. Core-stable Networks with Widespread Externalities. CoopMAS-2015 -The Sixth Workshop on Games in Multiagent Systems, Istanbul, Turkey, 4-5 May 2014

54. A risk based core. Joint conferences on Logic Game Theory and Social Choice 8 & 8th Pan-Pacific Conference on Game Theory, Academia Sinica, Taipei, Taiwan, 19-21 May 2014
55. The recursive core under risk-based behavioural expectations. East Asian Game Theory Conference, Tokyo, Japan, 24-26 August 2014
56. The recursive core under risk-based behavioural expectations. The 13th Meeting of the Society for Social Choice and Welfare, Lund, Sweden, 28 June-1 July 2016
57. Core-stable Networks with Widespread Externalities. GAMES 2016 – Fifth World Congress of the Game Theory Society, Maastricht, the Netherlands, 24-28 July 2016
58. Cooperation, Selfishness and Joint Risks in Industrial Clusters. Regional Polarisation and Unequal Development in CEE: Challenges for Innovative Place-based Policies, Cluj, Romania, 10-13 September 2017
59. Efficiency and Security in the European Gas Network. 9th UECE Lisbon Meetings in Game Theory and Applications, Lisbon, Portugal, 9-11 November 2017
60. Does risk sorting explain bubbles?. PET 2018 - International Conference of the Association for Public Economic Theory, Hue, Vietnam, 6-8 June 2018
61. Bounds on Malapportionment. The 14th Meeting of the Society for Social Choice and Welfare, Seoul, Korea, 14-17 June 2018
62. Bounds on Malapportionment. SING 14 - The 14th European Meeting on Game Theory, Bayreuth, Germany, 16-18 July 2018
63. Does risk sorting explain bubbles?. World Finance Conference, Point de Piments, Mauritius, 25-28 July 2018

Local conference presentations

64. The Minimal Dominant Set is a Non-Empty Core-Extension. Summer Workshop, HAS-IE, Budapest, 30/6/2004.
65. The Core Can be Accessed in a Bounded Number of Steps. Summer Workshop, HAS-IE, Budapest, 29/6/2005.
66. A non-manipulable quality ranking of economics journals. Summer Workshop, HAS-IE, Budapest, 22/8/2007.
67. Strategic Power Indices: Quarrelling in Coalitions. Summer Workshop, HAS-IE, Budapest, 22/8/2008.
68. On the implementation of the recursive core. Conference of the Hungarian Society for Economics, Budapest, 19/12/2008.
69. Egzakt játékok átruházható hasznosságú kooperatív játékokban. 28th Hungarian Operations Research Conference, Balatonőszöd, 8/6/2009.
70. Measuring voting power: The paradox of new members vs. the null player axiom. Jubilee Conference, Budapest, 1/9/2009.
71. Quarrelling in coalitions to increase p-power voting. Conference of the Hungarian Society for Economics, Budapest, 18/12/2009.
72. Voting power in international organisations. Bolyai Memorial Conference, Budapest, 1/9/2010.
73. Prospects after the voting reform of the Lisbon Treaty. Conference of the Hungarian Society for Economics, Budapest, 20/12/2010.
74. A rekurzív mag a stacionárius konzisztens egyensúlyi kifizetés-konfigurációk halmaza. XXIX. Hungarian Operations Research Conference, Balatonőszöd, 28/9/2011.
75. Siker, pénz, csillogás (MKE elnöki székfoglaló). Conference of the Hungarian Society for Economics, Budapest, 20/12/2011.

76. Hatékonyság és stabilitás nagyfeszültségű elektromos hálózatokban. Egy partíciós függvény alapú megközelítés. Annual Conference for the Society of Economic Modelling, Budapest, 4/6/2012.
77. What Is Offered by Science 2.0 for an Academic? - The Good, the Bad, and the Ugly. Science 2.0 - Mini-Conference, Corvinus University Budapest, Budapest, 21/3/2013.
78. Coalitionally stable networks. NEXT Workshop on Networks and Externalities, Budapest, 6-7 June 2013
79. Coalitionally stable networks. 30th Hungarian Operations Research Conference, Balatonőszöd, 11/6/2013.
80. Coalitionally stable networks. Conference of the Hungarian Society for Economics, Budapest, 19/12/2013.
81. A risk based core. NEXT2014 - 2nd Workshop on Networks and Externalities, Budapest, 26-27 May 2014
82. Kockázati mag. Conference of the Hungarian Society for Economics, Budapest, 19/12/2014.
83. Kockázati mag. 31st. Hungarian Operations Research Conference, Budapest, 10/6/2015.
84. Döntési befolyás az Európai Unió Tanácsában: mit hozhat a Brexit? BJMT Applied Mathematics Conference, Győr, 2/6/2016.
85. Döntési befolyás az Európai Unió Tanácsában: mit hozhat a Brexit? 15th Annual Conference for the Society of Economic Modelling, Budapest, 10/6/2016.

Other talks

86. Finding the Best Way to Join in: A Dynamic Accession Game. Workshop Econometrics , 22/2/2000.
87. Consistent Refinements of the Core of a Partition Function Game. Workshop Econometrics , 30/5/2000.
88. A Nonempty Extension of the Core. Workshop Econometrics , 5/12/2000.
89. The Core in the Presence of Externalities. Workshop Econometrics , 11/12/2001.
90. Mag és elérhetőség, Budapest University of Economics and Public Administration, Chair for Operations Research, 20/12/2001.
91. Core and Accessibility. ARC seminar, CORE, Catholic University of Louvain (50 uur), 5/2/2002.
92. The Core in the Presence of Externalities. CLIMNEG seminar, CORE, Catholic University of Louvain , 18/3/2002.
93. The Minimal Dominant Set is a Non-Empty Core-Extension. University of Hull, United Kingdom, 11/2/2003.
94. Core and Accessibility. University of Maastricht, Maastricht, the Netherlands, 4/6/2003.
95. The Coalition Structure Core is Accessible. VICI-RG, 29/10/2003.
96. The Minimal Dominant Set is a Non-Empty Core-Extension. Waseda University, Japan, 4/6/2004.
97. The Core Can be Accessed in a Bounded Number of Steps. VICI-RG, 24/11/2004.
98. Strategic Power Indices. MiMaMa Seminar, Maastricht University, Maastricht, the Netherlands, 8/3/2006.
99. Strategic Power Indices. Adam Smith Seminar, Hamburg, 16/5/2006.
100. Strategic Power Indices. University of Venice, Italy, 26/6/2006.
101. Strategic Power Indices: Quarrelling in Coalitions. Game Theory Seminar, Corvinus University Budapest, Budapest, Hungary, 17/10/2006.
102. Strategic Power Indices: Quarrelling in Coalitions. Central European University, Budapest, Hungary, 26/10/2006.
103. Sequential coalition formation and the core in the presence of externalities. Tinbergen Institute Seminar Institutions and Decision Analysis, Amsterdam, the Netherlands, 23/4/2007.

104. The Premier League of Economics Journals: Yet another ranking?. Doctoral Seminar, Budapest Corvinus University, Hungary, 23/11/2007.
105. The premier league of academic journals: Quality ranking based on a citation tournament. Dies Natalis, Maastricht University, the Netherlands, 11/1/2008.
106. A tudományos folyóiratok olimpiája. Rangsor egy hivatkozásbajnokság alapján. BMF-KGK, Budapest, Hungary, 3/4/2008.
107. A stabil párosítások szakirodalmának, ezen belül a felvételi rendszerek elemzéséhez kapcsolódó eredmények összefoglalása és ismertetése. HAS-IE, Budapest, Hungary, 12/12/2008.
108. Hazánk EU-s befolyása a reform előtt és után. KTI Szeminárium, Budapest, Hungary, 25/3/2010.
109. Hazánk EU-s befolyása a Lisszaboni Szerződés előtt és után. JFSZK szeminárium, Budapest, Hungary, 21/4/2010.
110. Hazánk EU-s befolyása a Lisszaboni Szerződés előtt és után. Game Theory Seminar, Corvinus University Budapest, Budapest, Hungary, 26/4/2010.
111. A játék neve: kratokrácia. Magyar Tudomány Ünnepe, MTA, Budapest, Hungary, 8/11/2010.
112. Stationary consistent equilibrium outcomes constitute the recursive core. Game Theory Seminar, Corvinus University Budapest, Budapest, Hungary, 19/3/2012.
113. Intellectual Influence: Quality versus Quantity. Volkswirtschaftliches Forschungsseminar, Bayreuth University, Bayreuth, Germany, 8/1/2014.

Teaching

Subject	language	institution	level	semesters
Industrial Economics	English	Maastricht University	MSc, PhD	2003-09/2
Regulation and Incentives	English	Maastricht University	MSc, PhD	2004-05/1
Antitrust and Regulation	English	Maastricht University	BSc, MSc	2004-09/1
Game Theory	Hungarian	Budapest Tech	BSc	2007-08/1 2009-10/1
Industrial Organization	Hungarian	Budapest Tech	BSc	2006-09/2
Statistics I.	Hungarian	Budapest Tech / Óbuda University	BSc	2007-12/2
Statistics II.	Hungarian	Budapest Tech / Óbuda University	BSc	2008-13/1
Statistics for Economists	Hungarian	Budapest Tech / Óbuda University	BSc	2007-12/2
Game Theory	English	Óbuda University	BSc, MSc	2012-19/1 & 2
Industrial Organization	English	Óbuda University	BSc, MSc	2012-19/1 & 2
Game Theory	Hungarian	Óbuda University	PhD	2014-15/1
Economics of Antitrust and Regulation	English	PADE	PhD	2017-18/1
Advanced Microeconomics: Game Theory	English	Central European University	PhD	2017-18/1
Industrial Organization	English	PADE	PhD	2018-19/1