

## **Attila Varga, Ph.D.**

Faculty of Business and Economics  
University of Pécs  
H-7622 Pécs, Rákóczi 80  
Tel: 72-501599/23149  
E-mail: [vargaa@tk.pte.hu](mailto:vargaa@tk.pte.hu)

### **EDUCATION, SCIENTIFIC DEGREES**

- *Corresponding member of the Hungarian Academy of Sciences*, May 2019
- *D.Sc. (Doctor of the Hungarian Academy of Sciences) in Economics*, Budapest, 2006. Dissertation: Agglomeration, Technological Change and Economic Growth: The Macroeconomic Effects of the Geography of Research and Development
- *Habilitation*, Faculty of Business and Economics, University of Pécs, 2006
- *Ph.D. in Economics*, West Virginia University, Morgantown, WV, USA. Dissertation: Regional Economic Effects of University Research: A Spatial Econometric Perspective. March, 1997 (Chair: Luc Anselin)
- *University Doctor in Economics*, Janus Pannonius University, Pécs, Hungary. Dissertation: The Newtonian Influence on Adam Smith's Economics. October, 1989 (Advisors: András Bródy, Aladár Madarász)
- *M.A. in Economics*, Janus Pannonius University, Pécs, Hungary, 1983

### **CURRENT ACADEMIC APPOINTMENTS**

- *Director, Regional Innovation and Entrepreneurship Research Center*, Faculty of Business and Economics, University of Pécs (2015–present)
- *Director, Doctoral School of Regional Policy and Economics*, Faculty of Business and Economics, University of Pécs (2012–present)
- *Professor of Economics*, Department of Economics and Econometrics, Faculty of Business and Economics, University of Pécs, Hungary (2006 – present)

### **PRIOR ACADEMIC APPOINTMENTS**

- *Invited Visiting Scholar: Regional Research Institute, West Virginia University, USA* (July 2016)
- *Invited Visiting Scholar: GREThA, University of Bordeaux, France* (June 2012)
- *Invited National Expert: European Commission, Joint Research Centers, Institute for Prospective Technological Studies, Sevilla, Spain* (February – August 2008, and November 2009)
- *Chair: Department of Economics and Regional Studies*, Faculty of Business and Economics, University of Pécs (2006-2012)
- *Founding Director: Center of Research in Economic Policy (GKK)*, Faculty of Business and Economics, University of Pécs, 2003-2007

- *Invited Visiting Scholar: CREUSET and Department of Economics, University of Saint-Etienne, Saint-Etienne, Saint Etienne, France, June-July, 2005*
- *Invited Visiting Scholar: Max-Planck-Institute for Research into Economic Systems, Entrepreneurship, Growth and Public Policy, Jena, 2004 June*
- *Founding Program Director: International Ph.D. Program in Business Administration. University of Pécs, Faculty of Business and Economics, 2001-2007*
- *Senior Research Fellow: Institute for Economic Geography, Regional Development and Environmental Management, Vienna University of Economics and Business Administration, Vienna, Austria, 1999 -2001*
- *Scientific Advisor: ECOLINE – a macroeconomic model of the Hungarian economy, Ecostat, Budapest, 1998 – 2004*
- *Research Fellow: Institute for Urban and Regional Research, Austrian Academy of Sciences, Vienna, Austria, 1998-1999*
- *Research Assistant Professor: Regional Research Institute, West Virginia University, Morgantown, WV USA, 1997 - 1998*
- *Instructor: Department of Economics, West Virginia University, Morgantown, WV USA, Spring 1998 and Summer 1996*
- *Invited Visiting Scholar: The Institute of Public Policy, George Mason University, Fairfax, VA USA, June-August 1997*
- *Graduate Research and Teaching Assistant: Regional Research Institute and Center for Business Research and Department of Economics, West Virginia University, Morgantown, WV USA, 1992 – 1997*
- *University Assistant to Associate Professor: Department of Economics, University of Pécs, Hungary, September 1983 – August 2006*

## RESEARCH AREAS

Regional and Urban Economics, Regional Innovation Systems,  
Economic Development, Policy Impact Modeling

## AWARDS AND RECOGNITION

- *Teacher of the Year Award, MSc Enterprise Development and Entrepreneurship, Faculty of Business and Economics at the University of Pécs, 2019*
- *Hungarian Order of Merit, Officer's Cross, 2018*
- *The Award of the Hungarian Academy of Sciences (Akadémiai Díj), 2018*
- *Szentágothai János Research Excellence Award, Hungarian Ministry of Education, 2014*
- *Outstanding Alumni Scholar Award, Regional Research Institute, West Virginia University, Morgantown WV, USA, 2011*
- *Outstanding Faculty Award, University of Pécs 2008*
- *Széchenyi István Scholarship, Hungarian Ministry of Education, 2001-2005*
- *J. Dadisman Doctoral Award to the outstanding full time Ph.D. candidate of the year in Economics, the College of Business and Economics, West Virginia University, 1996*

- *Baltic/East Central European Assistance Award*, NAFSA: Association of International Educators, 1992-1994
- *Best Paper Award*, 14th National Scientific Students' Associations (OTDK) conference, Budapest, 1982

### **Google Scholar Citation Impact (June 2020)**

- Total citations: 9800 (3200 since 2015)
- h-index: 29 (19 since 2015)
- i10-index: 48 (32 since 2015)

### **RePEc Ranking (January 2019)**

- Economic Geography Worldwide: top 3 percent
- Innovation Worldwide: top 6 percent
- Number of Citations Worldwide: top 3 percent
- Number of Citations, Weighted by Number of Authors Worldwide: top 4 percent
- Aggregate Worldwide: top 8 percent
- Aggregate Europe: top 5 percent
- Aggregate Hungary: top 2 percent

## **SELECTED PROFESSIONAL SERVICE**

- Chair: Regional Science Committee, Hungarian Academy of Sciences (2018 – present)
- Vice Chair: Hungarian Regional Science Association (2017 – present)
- *Member of the Advisory Committee*: Regional Research Institute, West Virginia University (2016 – present)
- *Chair of the Advisory Council*: Centre for Economic and Regional Studies, Hungarian Academy of Sciences (2013 – 2019)
- *European Prize in Regional Science (EIB) committee member* (2014 – 2017)
- *Outcome Indicators Expert Task Force member*: DG Regional Policy, European Commission (2010 – 2011)
- *European Regional Science Association Presidential Search Committee member* (2007-2008)
- *Founding member and member of the Presidential Board*: Hungarian Association for Economics (2007 – 2010)
- *Founding member and member of the Presidential Board*: Hungarian Regional Science Association (2003 – present)
- *European Regional Science Association Council (ERSAC) member* (2003 – 2019)
- *Member of European doctoral summer school committees*: DIMETIC, ESSID (2005-2011)
- *Member of international student exchange network committee*: NEURUS (2005 -)
- *Chair*: Committee for developing the research strategy for the Faculty of Business and Economics at the University of Pécs (2001)

- *Member of the College Council*: Faculty of Business and Economics, University of Pécs (1987-1990 and 2003 – present)
- *Organizer of international conferences, workshops*: “The Role of Research University in the Regional Economy” Regional Research Institute, West Virginia University, 1996; International workshop on “Innovation, Entrepreneurship and Regional Economic Development”, University of Pécs, 2000; “Universities and Regional Economic Development” University of Pécs, 2005; “Regional Innovation and Growth: Theory, Empirics and Policy Analysis”, Pécs, 2011; „New developments in the research on spatial (local and interregional) knowledge networks (Networkshop)”, University of Pécs 2015; “Knowledge Transfer, Innovation and Economic Performance: A Japanese-European Perspective”, University Pécs 2017; “International Conference on University-Based Entrepreneurship and Regional Development: Theory, Empirics and Practical Implementation (ICUBERD)” at the University of Pécs, Faculty of Business and Economics: 2016, 2017, 2018
- *Member of conference scientific committees*: „Spatial Econometrics Workshop”, Kiel Institute for World Economics, 2005; „ADRES International Conference: Networks of innovation and spatial analysis of knowledge diffusion” Saint Etienne, 2006; „Enterprise in transition”, International Conference, 2007 University of Split, Split; ZEW 3rd conference on innovation and patenting, Mannheim, 2008; University of Split, Faculty of Business and Economics 8th International Conference " CHALLENGES OF EUROPE: FINANCIAL CRISIS AND CLIMATE CHANGE", 2009; Regional Studies Association annual conference, Pécs, 2010; DIME final conference, Maastricht, 2011; European Regional Science Association congresses (2009, 2014, 2015, 2016, 2017, 2018, 2019, 2020); Geography of Innovation conferences (2012, 2014, 2016, 2018, 2020); Regional Science Association 2016 World Congress; 6th International Conference: The Challenges for European Cohesion by the Department of Economic Policy and European Regional Studies at Wrocław University of Economics, 2016, Ingenio Workshop, Valencia, 2018, 4th EAEPE Research Area X Networks Workshop, Budapest 2018

## EDITORIAL APPOINTMENTS

### Editor

*Regional Studies* (2007-2013)

### Guest Editor

- *International Regional Science Review*, Special Issue on *Regional Innovation Systems*, 2002
- *Annals of Regional Science*, Special Issue on *Knowledge creation and diffusion in space and regional innovation performance*
- *Regional Studies*, Special Issue on *Place-based Economic Development and the New EU Cohesion Policy*, 2015
- *Annals of Regional Science*, Special Issue on *Knowledge Creation and Diffusion in Space and Regional Innovation Performance*, 2013, Special Issue on *European Neighborhood Policy*, 2017

### Editorial Boards

- *Entrepreneurship and Innovation* (2005 – present)
- *European Journal of Innovation Management* (2012 - present)
- *Journal of Global Entrepreneurship* (2012 - present)

- *Regional Statistics* (2012 - present)
- *Region* (2013 - present)

### Referee

Acta Oeconomica, Annals of Regional Science, Canadian Journal of Economics, Central European Press, Contemporary Economic Policy, Dialog-Campus, Economic Development Quarterly, Economic Geography, Environment and Planning A, European Economic Review, European Planning Studies, Growth and Change, International Regional Science Review, Journal of Economic Geography, Journal of Regional Science, Journal of Small Business Management, Közgazdasági Szemle, The MIT Press, National Science Foundation (USA), OTKA, Papers in Regional Science, Regional Science and Urban Economics, Regional Studies, Research Policy, Review of Regional Studies, Small Business Economics, Scienze Regionali, Spatial Economic Analysis, Springer Verlag, Tijdschrift voor Economische en Sociale Geografie

### SELECTED RESEARCH GRANTS

- *Survey of West Virginia Manufacturers' Technology Use* (Robert C. Byrd Institute for Advanced Flexible Manufacturing (RCBI), 1997-1998, \$100,000, participant)
- *Time-space patterns of US innovation and R&D activities – database building* (Regional Research Institute, West Virginia University, 1998, \$5,000, Principal Investigator)
- *Innovation in the high technology industry: an assessment of the local factors enhancing the innovative potential of US high technology regions* (George Mason University, Institute for Public Policy, 1997, \$7,000, Principal Investigator)
- *Regional innovation potentials and networks in metropolitan regions* (German Research Foundation, Austrian Academy of Sciences, Vienna University of Economics and Business Administration, 1997-2000, ATS1,600,000, participant)
- *The role of space in the creation of new technological knowledge in Austria* (Jubiläumsfonds, Austrian National Bank, 1999-2000, ATS410,000, Principal Investigator)
- *Global Entrepreneurship Monitor (GEM) - project* (Hungarian Ministry of Economy, USD 16,000, University of Pécs: BP 5,000, 2001, participant)
- *University-industry knowledge transfers in Hungary* (Hungarian Research Fund (OTKA) (2003-2005, HUF 6.5 Million, Principal Investigator)
- *DIME Network of Excellence* (6th Framework Program, European Commission, 2005-2010, head of a research group)
- *The value of European Patents* (Fundazione CERM and European Commission, 2005, Head of research group)
- *Business potential of R&D activities in the university environment and their transfer to SMEs in the Cross-Border Region (CrosboR&D)*; SL-HU-CR/05/4012-106/2004/01/HU-12 (Slovenia, Croatia, Hungary) (2005-2008, Head of a research group)
- *Science and Technology Research In a Knowledge-based Economy* (STRIKE) ESF-COST (Head of a research group, 2007-2011)

- *IAREG* (7th Framework Program, Head of a research group, group budget: €91,397, 2008-2010)
- *SEARCH* (7th Framework Program, Head of a research group, group budget: €98,000, 2011-2013)
- *GRINCOH* (7th Framework Program, Head of a research group, group budget: €88,000 2012-2014)
- *MTA-PTE Innovation and Economic Growth Research Group* (Principal Investigator 2012-2017, 2017-2022, HUF 300 million)
- *International scientific embeddedness, technological change and economic growth* (Hungarian Research Fund (OTKA), 2012-2014, HUF14 million HUF, Principal Investigator)
- FIRES (H2020 project, Head of a research group)

### COURSES TAUGHT

Advanced Regional Economics, Spatial Econometrics, Applied Microeconomics, Spatial Economics, Research Methodology (PhD level), Geographical Economics, Regional Economics, Innovation and Technological Change (MA level), Microeconomics (BA level), Agglomeration and interregional network effects in European research productivity (DIMETIC Doctoral Summer Schools), Applied Spatial Econometric Analysis (DIMETIC Doctoral Summer Schools)

### DOCTORAL SUMMER SCHOOLS ORGANIZED

DIMETIC Pécs: 2007, 2009, 2010

PREPARE ERSA Summer School Pécs: 2008

### INTERNATIONAL PUBLICATIONS

#### Books and Edited Volumes

- Attila Varga, Katalin Erdős (Eds.) 2019 *Handbook of Universities and Regional Development*. Edward Elgar Publishers
- Philip McCann, Attila Varga (Eds.) 2016 *Place-based Economic Development and the New EU Cohesion Policy*. Routledge
- João J.M. Ferreira, Mário Raposo, Roel Rutten, Attila Varga (Eds.) 2013 *Cooperation, Clusters, and Knowledge Transfer. Universities and Firms Towards Regional Competitiveness*. Springer, New York.
- Varga, Attila (Ed.) 2009 *Universities, Knowledge Transfer and Regional Development: Geography, Entrepreneurship and Policy*. Edward Elgar Publishers
- Schalk, Hans Joachim and Varga, Attila 2004 *The economic effects of EU Community Support Framework interventions. An ex-ante impact analysis with EcoRET, a macroeconomic model for Hungary*. Center of Applied Economic Research Münster (CAWM), University of Münster, Münster.
- Varga, Attila and László Szerb (Eds.) 2002 *Innovation, Entrepreneurship and Regional Economic Development: International Experiences and Hungarian Challenges*. University of Pécs Press, Pécs

- Manfred M. Fischer, Javier Revilla Diez, Folke Snickars in association with Attila Varga 2001 *Metropolitan Systems of Innovation. Theory and Evidence from Three Metropolitan Regions in Europe*. Springer, Berlin
- Varga, Attila 1998 *University Research and Regional Innovation: A Spatial Econometric Analysis of Academic Technology Transfers*. Kluwer Academic Publishers, Boston
- Varga, Attila 1997 *Regional Economic Effects of University Research: A Spatial Econometric Perspective*. UMI, Ann Arbor, Michigan

### Book Chapters

- Varga, A., L. Szerb, T. Sebestyén, & Norbert Szabó (2020) Economic Impact Assessment of Entrepreneurship Policies with the GMR-Europe Model, In: Sanders, M., Marx, A., & Stenkula, M. (eds) (2020) *The Entrepreneurial Society; A Reform Strategy for Italy, Germany and the UK*, Berlin, Heidelberg: Springer. pp. 39-70 DOI: [https://doi.org/10.1007/978-3-662-61007-7\\_3](https://doi.org/10.1007/978-3-662-61007-7_3)
- Attila Varga 2019 National growth and regional convergence: What do GMR models tell us about it? In Olechnicka, A., Herbst, M. (Eds.) *Równosc czy efektywnosc rozwoju*. Wydawnictwo Naukowe Scholar, Warszawa, 334-343.
- Lengyel, Imre, Varga, Attila 2019 The spatial limits of economic growth of Hungary: An overview and some dilemmas. In: Khademi-Vidra, Anikó, Bakos, Izzabella Mária (Eds.) *Introduction to Regional Sciences*. Gödöllő, Magyarország: SZIE GTK EGYRTDI & EMEFA, Gödöll, 46-66.
- Attila Varga 2017 Geographical Macro and Regional Impact Modeling. In R. Jackson, P. Schaeffer (eds.), *Regional Research Frontiers - Vol. 2, Advances in Spatial Science*, 49-58. DOI 10.1007/978-3-319-50590-9\_3
- Attila Varga, Márton Horváth 2015 Regional knowledge production function analysis. In Martin Anderson, Charlie Karlsson (Eds.) *Handbook of Research Methods and Applications in Economic Geography*. Edward Elgar Publishers, 513-543
- Attila Varga, Márton Horváth 2014 Institutional and regional factors behind university patenting in Europe: An exploratory spatial analysis using EUMIDA data. In Bonaccorsi, Andrea (Ed.) *The European higher education landscape. Diversity and performance*. Edward Elgar Publishers, Cheltenham, UK, Northampton, MA, USA, 167-204.
- Attila Varga 2013 Economic Impact Challenges Posed by the New European Union Cohesion Policy: A Rationale for the Geographic Macro and Regional Policy Impact Modeling Approach. In Pálné Kovács, I., Scott, J., Gál, Z. *Territorial Cohesion In Europe*, 85-98.
- Attila Varga, Márton Horváth 2013 An exploratory spatial analysis of factors behind university patenting in Europe. In Imre Lengyel, Zsófia Vas (Ed.) *Regional Growth, Competitiveness and Development*. University of Szeged Faculty of Economics and Business Administration, Doctoral School in Economics, Szeged, 143 – 167.
- Tamás Sebestyén, Attila Varga 2013 A novel comprehensive index of network position and node characteristics in knowledge networks: Ego Network Quality. In Scherngell, Thomas (Ed.) *The geography of networks and R&D collaborations*. Springer, New York, 71-97.

- Katalin Erdős, Attila Varga 2013 The Role of Academic Spin-off founders' motivation in the Hungarian Biotechnology Sector. In João J.M. Ferreira, Mário Raposo, Roel Rutten, Attila Varga (Eds.) *Cooperation, Clusters, and Knowledge Transfer. Universities and Firms Towards Regional Competitiveness*. Springer, New York, 207-224.
- Katalin Erdős, Attila Varga 2012 Academic entrepreneurs in post-socialist Central European countries: Evidence from the Hungarian biotechnology sector. In Roberta Capello, Grzegorz Gorzelak, Agnieszka Olechnicka (Eds.) *Universities, Cities and Regions: Loci for Knowledge and Innovation Creation*. Routledge, 229-245.
- Katalin Erdős, Attila Varga 2012 [The Academic Entrepreneur: Myth or Reality for Increased Regional Growth for Europe?](#) In Geenhuizen, M. and P. Nijkamp (Eds.) *Creative Knowledge Cities: Myths, Visions and Realities*. Edward Elgar Publishers, 157-181.
- Varga, Attila and Andrea Parag 2009 Academic knowledge transfers and the structure of international research networks. In Attila Varga (Ed.) *Universities, Knowledge Transfer and Regional Development: Geography, Entrepreneurship and Policy*. Edward Elgar Publishers, 138-159.
- Varga, Attila and Andrea Parag 2007 [Academic knowledge transfers and the structure of international research networks](#). In G. Ciobanu, M. Rovinaru and A. Mocan (Eds.) *Proceedings of Competitiveness and European Integration: October 26-17, 2007 Cluj-Napoca, Romania*, Alma Mater, Cluj--Napoca
- Varga, Attila 2006 Spatial data analysis, multiregional modelling and macroeconomic growth. In *European Territorial Research in Progress*. Conference Proceedings of the 1<sup>st</sup> ESPON Scientific Conference. ESPON, Luxemburg, 147-162
- Fischer, Manfred M., Joseph Fröhlich, Helmut Gassler and Varga, Attila 2006 The role of space in the creation of new technological knowledge in Austria: An exploratory spatial data analysis. In Fischer, Manfred. M. (Ed.) *Innovation, Networks, and Knowledge Spillovers*, Springer, Berlin-Heidelberg, 189-210.
- Fischer, Manfred M. and Attila Varga 2006 Spatial knowledge spillovers and university research: evidence from Austria. In Fischer, Manfred. M. (Ed.) *Innovation, Networks, and Knowledge Spillovers*, Springer, Berlin-Heidelberg, 211-232.
- Varga, Attila 2005 Localized knowledge inputs and innovation: The role of spatially mediated knowledge spillovers in the new EU member countries from Central Europe: The case of Hungary. In *The impact of European integration on the national economy*. Babes Bolyai University Press, Cluj-Napoca, Romania, 118-133
- Varga, Attila 2005 R&D, agglomeration and economic growth in Hungary. In Ákos Dombi (Ed.) *Economic Growth in Hungary*. Budapest Technical and Economic University Press, 77-94 (in Hungarian)
- Varga, Attila, Luc Anselin and Zoltan Acs 2005 Regional innovation in the US over space and time. In Maier G, Sedlacek S (Eds.) *Spillovers and Innovation: City, Environment, and the Economy. Interdisciplinary Studies in Economics and Management*. Springer, Wien, New York 93-104
- Szerb, László and Attila Varga 2004 High tech venture capital investment in a small transition country: The case of Hungary. In Mani S and Bartzokas A (Eds.) *Financial Systems, Corporate Investment in Innovation and Venture Capital*. Edward Elgar, 290-321



- Varga, Attila 2003 Agglomeration and the Role of Universities in Regional Economic Development. In Lengyel, Imre (Ed.) *Innovation and Entrepreneurship*. University of Szeged
- Varga, Attila 2003 Thünen and the New Economic Geography. In Barancsik, János, Sándor Oroszi and Attila Varga (Eds.) *Essays in Memory of Professor Ferenc Zinhaber*. University of Pécs Press, 85-98 (in Hungarian),
- Varga, Attila 2002 Knowledge Transfers from Universities to the Regional Economy: A Review of the Literature. In Varga, Attila and László Szerb (Eds.) *2002 Innovation, Entrepreneurship and Regional Economic Development: International Experiences and Hungarian Challenges*. University of Pécs Press, Pécs, 147-171
- Fischer, Manfred M. and Attila Varga 2002 Geographic Spillovers of University Research on Patent Activities of the High Technology Sectors in Austria. In Acs, Zoltan, Henri L.F. de Groot and Peter Nijkamp (Eds.) *The Emergence of the Knowledge Economy. A Regional Perspective*. Springer, Berlin, 139-154
- Varga, Attila 2001 Universities and regional economic development: Does agglomeration matter? In Johansson, Börje, Charlie Karlsson and Roger Stough (Eds.) *Theories of Endogenous Regional Growth – Lessons for Regional Policies*, Springer, Berlin, 345-367
- Fischer, Manfred M., Joseph Fröhlich, Helmut Gassler and Varga, Attila 2001 The role of space in the creation of new technological knowledge in Austria: An exploratory spatial data analysis. In Fischer, Manfred. M. and Joseph Fröhlich (Eds.) *Knowledge, Complexity and Innovation Systems*. Springer, Berlin, 124-145
- Varga, Attila 2000 Universities in local innovation systems. In Acs, Zoltan (ed.) *Regional Innovation and Global Change*. Science, Technology and the International Political Economy Series. Pinter, London, New York, 139-152
- Varga, Attila 1999 Time-space patterns of US innovation: stability or change? A detailed analysis based on patent data. In Fischer, Manfred, Louis Suarez-Villa and Michael Steiner (eds) *Innovation, Networks and Localities*, Springer, Berlin, 215-234
- Varga, Attila 1987 The first appearance of the market equilibrium analysis in Adam Smith's Wealth of Nations. (In Hungarian) In Mellár, Tamás (ed.) *Inside and Outside of a Paradigm. Papers in Honor of Professor Ferenc Zinhaber*, College of Business and Economics Janus Pannonius University, Pécs, 54-76
- Varga, Attila 1983 The system of arts: An economic study on fine arts. (In Hungarian) in *The Best Papers of the 15th National Student Scholarly Paper Competition*. Budapest, 222-224

#### Refereed Journals Articles

- Attila Varga, Norbert Szabó, Tamás Sebestyén 2020 Economic impact modeling of smart specialization policy: Which industries should prioritization target? *Papers in Regional Science* (on-line access) <https://rsaiconnect.onlinelibrary.wiley.com/doi/full/10.1111/pirs.12529>
- Varga, A., Sebestyén, T., Szabó, N., Szerb, L. 2020 Estimating the economic impacts of knowledge network and entrepreneurship development in smart specialization policy. *Regional Studies* 54, 48-59. <https://doi.org/10.1080/00343404.2018.1527026>

- Tamás Sebestyén, Attila Varga 2019 Knowledge networks in regional development: an agent-based model and its application. *Regional Studies* 53, 1333-1343. <https://doi.org/10.1080/00343404.2019.1622663>
- Edward M Bergman, Attila Varga 2018 Innovative potential for development of Europe's neighbouring countries and regions. *Annals of Regional Science* 60, 443-449.
- Attila Varga 2017 Place-based, Spatially Blind, or Both? Challenges in Estimating the Impacts of Modern Development Policies: The Case of the GMR Policy Impact Modeling Approach. *International Regional Science Review* 40, 12-37. DOI: 10.1177/0160017615571587.
- Attila Varga, Tamás Sebestyén 2017 Does EU Framework Program participation affect regional innovation? The differentiating role of economic development. *International Regional Science Review*, 1-35 DOI: 10.1177/0160017616642821.
- Tamás Sebestyén, Orsolya Hau-Horváth, Attila Varga 2017 How to get from the periphery into the core? The role of geographical location and scientific performance in network position in the field of neuroscience. *Letters in Spatial and Resource Sciences*, 1-29. DOI: 10.1007/s12076-016-0182-6
- Attila Varga, Mete Basar Baypinar 2016 Economic impact assessment of alternative European Neighborhood Policy (ENP) options with the application of the GMR-Turkey model. *The Annals of Regional Science* 56, 153-176.
- Philip McCann, Attila Varga 2015 The Reforms to the Regional and Urban Policy of the European Union: EU Cohesion Policy. *Regional Studies* 49, 1255-1257.
- Attila Varga, Dimitros Pontikakis, George Chorafakis 2014 Metropolitan Edison and cosmopolitan Pasteur? Agglomeration and interregional research network effects on European R&D productivity. *Journal of Economic Geography* 14, 229-263 (doi:10.1093/jeg/lbs041).
- Attila Varga, Orsolya Hau-Horváth, Norbert Szabó, Péter Járosi 2013 Blue Economy innovation impact assessment with the GMR-Europe model. *Technology and Investment* 4, 213-223. (<http://dx.doi.org/10.4236/ti.2013.4402>)
- Tamás Sebestyén, Attila Varga 2013 Research productivity and the quality of interregional knowledge networks. *Annals of Regional Science* 51, 155-189 (DOI 10.1007/s00168-012-0545-x).
- Roberta Capello, Attila Varga 2013 Knowledge creation and diffusion in space and regional innovation performance: Introductory remarks. Special issue editorial. *Annals of Regional Science* 51, 113-118 (DOI 10.1007/s00168-013-0569-x).
- Joaquín M. Azagra-Caro, Dimitrios Pontikakis, Attila Varga 2013 Absorptive capacity and the delocalisation of university-industry interaction. Evidence from participations in the EU's Sixth Framework Programme for Research. *European Planning Studies* 21, 1676-1701, DOI: 10.1080/09654313.2012.722949.
- Varga, Attila 2009 Integrating geography in models of policy impact assessment: Why and how? *Science Regionali* 8, 107-115.
- Varga, Attila 2008 From the Geography of Innovation to Development Policy Analysis: The GMR-approach. *Annales d'Economie et de Statistique* 87-88, 83-102.

- Varga, Attila 2007 Localized knowledge inputs and innovation: The role of spatially mediated knowledge spillovers in Hungary. *Acta Oeconomica* 57, 1-20
- Varga, Attila 2006 The Spatial Dimension of Innovation and Growth: Empirical Research Methodology and Policy Analysis. *European Planning Studies* 9, 1171-1186
- Acs, Zoltan and Attila Varga 2005 *Entrepreneurship*, agglomeration and technological change. *Small Business Economics* 24, 323-334
- Varga, Attila and Hans Joachim Schalk 2004 Knowledge spillovers, agglomeration and macroeconomic growth. An empirical approach. *Regional Studies* 38, 977-989
- Fischer, Manfred M. and Attila Varga 2003 Spatial knowledge spillovers and university research: evidence from Austria, *Annals of Regional Science* 37, 303-322
- Acs, Zoltan, Luc Anselin and Attila Varga 2002 Patents and innovation counts as measures of regional production of new knowledge. *Research Policy* 31, 1069-1085
- Acs, Zoltan and Attila Varga 2002 Introduction to the Special Issue on Regional Innovation Systems. *International Regional Science Review* 25, 3 - 7 (Special issue on Regional Innovation Systems, edited by Zoltan J. Acs and Attila Varga)
- Acs, Zoltan and Attila Varga 2002 Geography, endogenous growth and innovation. *International Regional Science Review* 25, 132 - 148 (Special issue on Regional Innovation Systems, edited by Zoltan J. Acs and Attila Varga)
- Fischer, Manfred M. and Attila Varga 2002 Technological innovation and interfirm cooperation. An exploratory analysis using survey data from manufacturing firms in the metropolitan region of Vienna. *International Journal of Technology Management* 24, 724-742
- Fischer, Manfred M. and Attila Varga 2001 Geographic knowledge spillovers and university research: some evidence from Austria, *Geographischer Jahresbericht aus Österreich* 58, 37-48
- Varga, Attila 2000 Local academic knowledge transfers and the concentration of economic activity. *Journal of Regional Science* 40, 289-309
- Cserhádi, Ilona and Attila Varga 2000 ECO-LINE: A macroeconometric model of the Hungarian economy. *Hungarian Statistical Review* 78, Special Number, 35-51.
- Anselin, Luc, Attila Varga and Zoltan Acs 2000 Geographic spillovers and university research: a spatial econometric perspective. *Growth and Change* 31, 501-516
- Anselin, Luc, Attila Varga and Zoltan Acs 2000 Geographic and sectoral characteristics of academic knowledge externalities. *Papers in Regional Science* 79, 435-445
- Anselin, Luc, Attila Varga and Zoltan Acs 1997 Local geographic spillovers between university research and high technology innovations. *Journal of Urban Economics* 42, 422-448

### Book Reviews

- Attila Varga 2003 Review on "Regional Processes and Spatial Structures in Hungary" by Zoltán Hajdú (Ed.), Hungarian Academy of Sciences, Centre for

Regional Studies, Pécs, 1999, 354 pp. *Annals of Regional Science* 36, 523-525

- Attila Varga 2001 Review on “Spatial Economic Science. New Frontiers in Theory and Methodology” by A. Reggiani. Springer, Berlin, 2000, 457 pp. *Growth and Change* 32, 428-431

### Research Reports and Working Papers

- Attila Varga, Péter Járosi, Tamás Sebestyén, László Szerb 2015 Extension and application of the GMR-Eurozone model towards the CEE regions for impact assessment of smart specialisation policies. DOI: 10.13140/RG.2.1.5152.6567
- Attila Varga, Péter Járosi, Tamás Sebestyén, Mete Basar Baypinar 2013 [Detailed Policy Impact Model](#). Deliverable 6.2, SEARCH FP7 Project.
- Attila Varga, Péter Járosi, Tamás Sebestyén 2011 [Modeling the economic impacts of regional R&D subsidies: The GMR-Europe model and its application for EU Framework Program policy impact simulations](#). Paper presented at the 6th International Seminar on Regional Innovation Policies, University of Lund, Lund, Sweden.
- Attila Varga 2009 An integrated knowledge production and SCGE model developed for policy impact analysis IAREG FP 7 Project Deliverable 5.3. December 2009
- Varga, Attila, Péter Járosi, Tamás Sebestyén 2009 [Geographic Macro and Regional Model for EU Policy Impact Analysis of Intangible Assets and Growth](#). Working Paper IAREG WP5/20.
- Varga, Attila, Schalk, H., Koike, A., Járosi, Péter, Tavasszy, L. 2008 [Integrating the effects of geography into EU Cohesion Policy impact modeling: The GMR-approach](#). Paper presented at the modelling workshop of the German Section of the European Regional Science Association, University of Kiel.
- Varga, Attila 2007 GMR-Hungary: [A complex macro-regional model for the analysis of development policy impacts on the Hungarian economy](#). *KRTI műhelytanulmányok* 2007/4
- Varga, Attila 2007 [From the Geography of Innovation to Development Policy Analysis: The GMR-approach](#). Conference paper: Innovation, Cluster, and Regional Development: Lessons for Cluster-Based Policy in Korea
- Tavasszy, L.A., A.Varga, A. Koike 2007 [Dynamic spatial equilibrium models for social cost benefit analysis of transport projects and policies: implementations for Japan, the Netherlands and Hungary](#). Proceedings of the 11th World Conference on Transport Research, University of California, Berkeley
- László Szerb and Attila Varga 2006 *The innovation capacity of the small and medium sized enterprises in the South-Transdanubian region of Hungary and the research and innovation transfer potential of the university of Pécs*. Final research report: Business potential of R&D activities in the university environment and their transfer to SMEs in the Cross-Border Region (CrosboR&D) project; SL-HU-CR/05/4012-106/2004/01/HU-12 (Slovenia, Croatia, Hungary)
- Attila Varga, Hans Joachim Schalk, Atsushi Koike, Lori Tavasszy 2006 *Endogenizing Spatial Economic Structure in a Complex Macro-Regional Model for Development Policy Analysis: The GMR-Hungary Model*.

- Conference paper: Annual Conference, European Regional Science Association, Volos, Greece
- Varga, Attila and Hans Joachim Schalk 2006 [Macroeconomic effects of the geography of technological change](#). DIME working paper
  - Acs, Zoltan and Attila Varga 2004 [Entrepreneurship, agglomeration and technological change](#). Working Paper, Max-Planck-Institute for Research into Economic Systems, Entrepreneurship, Growth and Public Policy, Jena, Germany
  - Varga, Attila and Hans Joachim Schalk 2004 [Macroeconomic effects of the geography of knowledge production: EcoRET, a macroeconomic model with regionally endogenized technological change for Hungary](#). CREP Working Paper, University of Pecs, Faculty of Business and Economics
  - Hans Joachim Schalk and Attila Varga 2004 The Economic Effects of the Hungarian National Development Plan, Planning Period 2004-2006: An Ex-Ante Macroeconometric Analysis. Report Prepared for the Hungarian Prime Minister's Office
  - Schalk, Hans Joachim and Attila Varga 2004 *Macroeconometric modeling of the effects of EU Structural Funds: The case of Hungary*. CREP Working Paper, University of Pecs, Faculty of Business and Economics
  - Szerb, László and Attila Varga 2002 [High tech venture capital investment in a small transition country: The case of Hungary](#). CREP Working Paper, University of Pecs, Faculty of Business and Economics
  - Fischer, Manfred M. and Attila Varga 2001 *The Role of Space in the Creation of Technological Knowledge in Austria* Final Report. Project No.7994, sponsored by the Jubiläumsfonds of the Austrian National Bank
  - Varga, Attila 2000 *Regional economic effects of university research*. Working Paper, Department of Economic Geography and Geoinformatics, University of Economics and Business Administration, Vienna, Austria
  - Varga, Attila and Roger Stough 1998 *Innovation in the high technology industry: an assessment of the local factors enhancing the innovative potential of US high technology regions*. Research Paper, The Institute of Public Policy, George Mason University, Fairfax, VA, USA
  - Varga, Attila 1998 *Universities in Local Innovation Systems*. Research Paper 9802, Regional Research Institute, West Virginia University, USA
  - Varga, Attila 1997 [Regional economic effects of university research](#). A survey. Research Paper 9729, Regional Research Institute, West Virginia University, USA
  - Anselin, Luc, Attila Varga and Zoltan Acs 1997 [Entrepreneurship, geographic spillovers and university research: a spatial econometric approach](#). WP 59. ESRC Centre for Business Research. University of Cambridge, UK
  - Hammond, George and Attila Varga 1996 *The West Virginia state and county econometric models. Introduction and manual*. Center for Economic Research, College of Business and Economics, West Virginia University, USA

## SELECTED INTERNATIONAL PRESENTATIONS

### Keynote presentations

- 2019 **Economic impact evaluation of RIS3**. "Preparing for the next programming period (2021-27): Strengthening RIS3 Governance and the Entrepreneurial Discovery Process" 28-29 November 2019, Chios, Greece

- 2019 March, S3 Targeted Support – Horizontal Activities. S3 evaluation – what, who, why? European Commission, Representation in Austria, 27th March 2019 Vienna: Evaluating knowledge-based regional development: the past, the present and the future.
- 2018 November, Acto Anual de Política Regional Fondo Europeo de Desarrollo, Madrid, Economic impact modeling in the prioritization process of smart specialization
- 2018 June, International Conference on Institutional Reforms for an Entrepreneurial Society (FIRES), Brussels: Assessing Europe's Entrepreneurial Ecosystems and Simulating Policy Interventions
- 2017 COMPOSTELLA Conference, University of Pécs: Universities and their regions
- 2014 SEARCH policy conference, Istanbul: Economic impact assessment of alternative SEARCH policy options with the application of the GMR-Turkey model
- 2014 GRINCOH International plenary session: Ljubljana The GMR-Europe macro-regional policy impact model and policy suggestions
- 2013 4th Ex-Ante Evaluation Conference, Hungarian National Development Agency, Budapest, Hungary, September 26: Economic impact evaluation challenges posed by new European Union Cohesion policy: The case of the GMR-approach
- 2013 Hungarian Regional Science Association Annual Conference: Economic impact modeling and the New EU Cohesion policy: The case of the GMR-approach
- 2013 Regional Growth, Development and Competiveness. 1st Central European Ph.D. Workshop on Regional Economics and Economic Geography, Szeged, April 25, 2013: Economic impact evaluation of the new European Union Cohesion policy: The case of the GMR-approach.
- 2011 UNICA conference “Cities and their universities for the creation of knowledge and innovation” Warsaw, 26st of September, 2011: The academic entrepreneur: myth or reality for increased regional growth in Europe?
- 2011 Regional innovation and growth: Theory, empirics and policy analysis, Pécs, 2011. 1st March: Geographical growth modeling
- 2010 Cooperation and Knowledge Transfer University-Firm for Agro-food, Logistics and Transport Clusters in Cross-Border Regions: Best Practices Experiences, Covilhã, Portugal, Július 16: The Academic Entrepreneur in Europe
- 2009 Exploring the Emergent European Research System EC JRC-IPTS, Seville, Spain November 16. Agglomeration and network effects in regional R&D productivity.
- 2009 IAREG WP5 Workshop, University of Cagliari, Cagliari, October 1. Development of an integrated regional KPF-SCGE and macro DSGE model for regional technology policy impact analysis.
- 2009 3rd International Conference on Innovation, Technology and Knowledge Economics METU TEKPOL, Ankara, June 24: Agglomeration and network effects in regional R&D productivity.
- 2009 „Innovation loves a challenge” ABFT Conference, Istanbul, June 11: Innovation, regions and public policy.
- 2009. February 12. „Shaping future cohesion policy. Academic/practitioner 'brain-storming' workshop” at D.G. Regional Policy, Brüsszel: Does growth promotion necessarily preclude cohesion?

- 2008. February 15. „Developing Tools for Regional Analysis” workshop at D.G. Regional Policy, Brüssel: Integrating agglomeration into macro-regional evaluation of EU Cohesion Policies.
- 2007 „Innovation, Cluster, and Regional Development: Lessons for Cluster-Based Policy in Korea”, Korea University, Seoul, February 5: From the Geography of Innovation to Development Policy Analysis: The GMR-Approach
- 2006 „ADRES International Conference: Networks of innovation and spatial analysis of knowledge diffusion” Saint Etienne, September 14: Endogenizing Spatial Economic Structure in a Complex Macro-Regional Model for Development Policy Analysis
- 2005 „Regional development research: A Fulbright seminar in Vienna”, Vienna University of Economics and Business Administration, Vienna, Austria, July, 8-13: Macroeconomic effects of the geography of technological change: EcoRET a macroeconomic model with regionally endogenized technological change for Hungary.
- 2005 „PhD-day, CREUSET, University of Saint Etienne, Saint Etienne, France, June 22: Macroeconomic effects of the geography of knowledge production: EcoRET a macroeconomic model with regionally endogenized technological change for Hungary
- 2005 „Agglomeration economies and regional growth” , Cagliari, May 20-21.: Macroeconomic effects of the geography of technological change.
- 2005 „Spatial Econometrics Workshop”, Kiel Institute for World Economics, April 8-9: The spatial dimension of innovation and growth

#### **Invited Seminar Presentations**

- 2018 November 19-23 International Seminar in Economic Geography (ISEG), Leibniz Universität Hannover, Fall 2018: Economic impacts of regional development policies (five day seminar series)
- 2018 Leibniz Institute of Ecological Urban and Regional Development (IOER), Dresden: Economic impact assessment of smart specialisation policies
- 2018 June 22. Fostering innovation in less-developed regions OECD-EC seminar, Paris: Innovation policy and framework conditions in less-developed regions
- 2014. October 20. Ministry of Economic Development, Turkey, Ankara: The GMR-Turkey model
- 2014. October 15. Department of Economic Geography, London School of Economics: Global research networks and regional innovation
- 2012. May 25. GRETA, University of Bordeaux. Research productivity and the quality of interregional knowledge networks.
- 2011. September 30. School of Public Policy, George Mason University, USA: Modeling the growth effects of R&D subsidies: The GMR-Europe model and its application for EU Framework Program policy impact simulations.
- 2011. September 29. Regional Research Institute, West Virginia University, USA: From the Geography of Innovation to Development Policy Impact Modeling.
- 2008. November 14. Department of Economic Geography and Planning, Arizona State University, Tempe, AZ, USA: Integrating the effects of geography into EU Cohesion Policy impact modeling: The GMR-approach.

- 2008. August 28. Institute for Prospective Technological Studies, Sevilla: Agglomeration and network effects in regional R&D productivity
- 2008. May 23. Freeman Center, University of Sussex: From the geography of innovation to development policy analysis: The GMR-approach
- 2008. February 25. Institute for Prospective Technological Studies, Sevilla: Spatially endogenized technological change in policy impact modeling: The GMR-approach.
- 2008. February 8. Institute for Prospective Technological Studies, Sevilla: From the Geography of Innovation to Development Policy Analysis.
- 2006 Laboratory of Economics and Management, Scuola Superiore Sant'Anna di Studi Universitari e di Perfezionamento, Pisa, December 4: From Micro to Macro via the Meso: Geographical Macro Modeling
- 2006 Department of Economics, Jönköping International Business School, Jönköping, Sweden, January 27: The macroeconomic effects of regional technological change.
- 2005 Institute for Advanced Studies (HIS), Vienna, Austria: Macroeconomic effects of the geography of technological change: EcoRET a macroeconometric model with regionally endogenized technological change for Hungary.
- 2005 CREUSET, University of Saint Etienne, Saint Etienne, France, June 14: The spatial dimension of innovation and growth
- 2003 Department of Economics, West Virginia University, USA, November: Knowledge spillovers, agglomeration and macroeconomic growth. An empirical approach
- 1998 The Institute of Public Policy, George Mason University: Spatial dependence in linear regression models: an overview and a practical demonstration
- 1997 The Institute of Public Policy, George Mason University: Universities and the local high technology economy

### **Invited Conference Presentations**

- 2019 Barcelona Workshop on Regional and Urban Economics: Economic Impact Estimation of Smart Specialization Policy, October 24-25, 2019
- 2019 JRC project "Targeted Support to RIS3 in Romania" Workshop on RIS3 governance: Economic Impact Estimation of Smart Specialization Policy. Ministry of Regional Development and Public Administration, Bucharest, 24 June 2019
- 2019 Investing in Our Shared Future. The 8th Conference on the Evaluation of EU Cohesion Policy: Economic Impact Estimation of Smart Specialization Policy. Bucharest, 20-21 June 2019
- 2018 November, ICUBERD III, University of Pécs: Economic impact modeling in the prioritization process of smart specialization
- 2018 ERSA Summer School, Bratislava: EU cohesion policy impact modeling
- 2017 European Week of Regions, Brussels: Knowledge networks and smart specialisation: What do we know and what to expect?
- 2017 FIRES workshop, Athens: Economic impact assessment of entrepreneurship policies with the GMR-Europe model



- 2017 Heilbronner Symposium: Evolution, Co-evolution and Regional Innovation Processes: Knowledge networks in regional development An agent based model and its application
- 2017 Special session in the Honour of Professor Charlie Karlsson, Uddevalla Symposium: Economic impact assessment of smart specialisation policies with the GMR-Europe model
- 2017 RSA Conference, Evolutionary Economic Geography Session: EEG and Economic Impact Modeling
- 2016. July 11. Knowledge Dynamics, Industry Evolution, Economic Development (KID) PhD Summer School: Regional innovation policy impact assessment: the case of Smart Specialization interventions
- 2013. December 17. Regional Studies Association North American Conference 2013, UCLA, Los Angeles: Invited reflections on the presentation "Growth in Cities Revisited" by Gilles Duranton.
- 2013. December 16. Regional Studies Association North American Conference 2013, UCLA, Los Angeles: EU Framework Program participation and innovation: The role of regional development.
- 2013 June 28. Territorial Cohesion in Europe. International Conference for the 70th Anniversary of the Transdanubian Research Institute Pécs: Economic impact evaluation challenges posed by new European Union Cohesion policy: The case of the GMR-approach.
- 2013. April 5. 14th International April Conference, High School of Economics, Moscow. Does EU Framework Program participation contribute to regional development? A time-space analysis of FP network quality and patenting productivity in EU Objective 1 regions.
- 2012. November 22. GRINCOH workshop, Halle. Smart Specialisation, Interregional Knowledge Network Quality and Research Performance.
- 2012. January 27. EUROLIO Conference, Saint Etienne. What determines the quality of academic patenting? An EU-US comparative analysis.
- 2010 Open Days University: Urban Dynamics Migration and Social Mobility. European Commission, Brussels, October 5: Migration trends of accession countries in Central Europe: Brain drain or brain circulation?
- 2010 DIME Workshop "Measuring, mapping and modelling technical change" 6-7 May, 2010 Sant'Anna School of Advanced Studies, Pisa: Agglomeration and interregional network effects on European R&D productivity
- 2007 ESF-COST Workshop on „Science, technology research in a knowledge-based economy”, Leuven, October 20: Academic knowledge transfers and the structure of international research networks
- 2007 GTZ-projekt final workshop, AEAf, Sofia, July 27: Methodologies for regional economic analysis
- 2007 International workshop: Agglomeration and Growth In Knowledge-based Societies, Kiel Institute for the World Economy, Kiel, April 20-21 From the Geography of Innovation to Development Policy Analysis: The GMR-Approach
- 2006 International Evaluation Conference: „Development Policy Effects on the Hungarian Economy: Recent Modeling Approaches (EcoRET, GMR)”, Hungarian National Development Agency, Budapest, November 8.
- 2006 „Developing of an Economic Modelling Framework in the Agency for Economic Analysis and Forecasting”, AEAf, Sofia, May 30: Endogenizing technological change in a regional tfp model to ex-ante evaluate csf interventions in Bulgaria

- 2006 „Comparative Regional Policy in an Era of Territorial Integration: International Comparative Research Conference”, NEURUS Vienna University of Economics and Business Administration, Vienna, Austria, March 16: Endogenizing spatial structure in macroeconomic models: New developments
- 2005 International workshop: "The Measurement and Analysis of Innovation and Productivity Growth", University of Groningen, Groningen, Hollandia, November 11: The spatial dimension of innovation and growth: Empirical research and methodology.
- 2005 „ESPON Scientific Conference”, Az European Spatial Observatory Network által az University of Luxembourg-on szervezett konferencia, October 13, Luxembourg: Spatial data analysis, multiregional modeling and macroeconomic growth
- 2005 International workshop „Universities and Regional Economic Development”, University of Pécs, Faculty of Business and Economics, October 21: Being involved in scientific networks: Does it matter for regional university impacts?
- 2005 International workshop “Knowledge and regional economic development”, June 9-11, University of Barcelona, Barcelona, Spanyolország: Macroeconomic effects of the geography of technological change: EcoRET a macroeconometric model with regionally endogenized technological change for Hungary.
- 2004 International workshop on “Regions in Action: The Nexus of Innovation, Entrepreneurship and Public Policy” May 24-25, Tinbergen Institute and Free University, Amsterdam, Hollandia: Macroeconomic effects of the geography of knowledge production: EcoRET, a macroeconometric model with regionally endogenized technological change for Hungary
- 2004 The 1<sup>st</sup> GEM Research Conference, Berlin, Germany, April 1-3: Entrepreneurship, agglomeration and technological change
- 2004 “Winter conference” of the German Speaking Section, European Regional Science Association, Matrei, Austria, February 25-27: Macroeconometric modeling of the effects of EU Structural Funds: The case of Hungary
- 2002 “Spillovers and Innovations: City Environment and the Economy”. May 30-June 2, Flackl –Wirt Rechenau/Rax, Ausztria: Regional Innovation in the US over Space and Time
- 2002 CIPRE’s First Mid-career Seminar, Budapest: Regional Innovation Policy
- 2000 „Innovation, Entrepreneurship and Regional Economic Development”, international workshop, June, Pecs, Hungary: Universities and regional economic development: Does agglomeration matter?
- 2000 “Knowledge, Complexity and Innovation Systems”, Vienna, Austria: The role of space in the creation of technological knowledge in Austria – An exploratory spatial data analysis
- 1998 “Theories of Regional Development – Lessons for Policies of Regional Economic Renewal and Growth” nemzetközi workshop, Uddevalla, Sweden, június: Universities and regional economic development: Does agglomeration matter?

## Conference Presentations

- 2020 **5th Geoinno Conference, Stavanger**, 29-31 January: Economic impact modeling of smart specialization policy
- 2018 The 4th RA [X] ‘Networks’ Workshop, Andrásy University Budapest, 15-16 November: Estimating the Economic Impacts of Knowledge Network and Entrepreneurship Development in Smart Specialisation Policy
- 2018 2nd Smarter Conference, Seville: Economic impact modeling in the prioritization process of smart specialization
- 2018 European Regional Science Association, Cork: Economic impact modeling in the prioritization process of smart specialization
- 2018 American Association of Geographers, New Orleans: Economic effects of smart specialisation policy
- 2018 Geography of Innovation, Barcelona: Impact assessment of alternative smart specialization policies for Hungarian NUTS 3 regions
- 2017 Regional Studies Association, Dublin: Impact Assessment of Cohesion Policy Alternatives: RIS3 Prioritisation with an Economic Model
- 2017 American Association of Geographers, Boston: Economic impact assessment of smart specialisation policies with the GMR-Europe model
- 2016 ICUBERD, PTE KTK, Pécs: Economic impact assessment of entrepreneurship policies for Smart Specialization with the GMR-Europe model
- 2016 Smarter Conference, Seville: Economic impact assessment of smart specialisation policies with the GMR-Europe model
- 2016. January 29. 3rd Geography of Innovation Conference, Toulouse, France: The GMR-Europe.2 model and its application for smart specialization policy impact analysis
- 2016. January 29. 3rd Geography of Innovation Conference, Toulouse, France: Knowledge networks in regional development. An agent based model and its application
- 2014 July 18. Ecomod Annual Conference, Bali, Indonesia: Place-based, spatially blind or both? Challenges in estimating the impacts of modern development policies: The case of the GMR policy impact modeling approach
- 2014 June 26. German Regional Science Association Annual Conference, Marburg, Germany: How to get from the periphery to the core? The case of coauthorship networks in neuroscience
- 2014 June 18. Regional Studies Association European Conference, Izmir, Turkey: The GMR-Turkey model and its application for the impact assessment of alternative regional policy options
- 2014. January 23. 2nd Geography of Innovation Conference, Utrecht, The Netherlands: EU Framework Program participation and innovation: The role of regional development.
- 2013. November 15. Regional Science Association International North American Annual Conference: Regional Economic impact modeling of modern development policies: The case of the GMR-approach.
- 2013. November 13. Regional Science Association International North American Annual Conference: Interregional research collaboration and innovation: The role of regional development.
- 2013. August 29. European Regional Science Association annual conference, Palermo: Does EU Framework Program participation contribute to regional innovation? A comparative spatial analysis of FP network quality and patenting in Central and Eastern European Objective 1 regions.

- 2013. August 28. European Regional Science Association annual conference, Palermo: Economic impact evaluation challenges posed by new European Union Cohesion policy: The case of the GMR-approach
- 2013 June 21. GRINCOH conference, Budapest: Economic impact evaluation of the new European Union Cohesion policy: The case of the GMR-approach
- 2013 June 21. GRINCOH conference, Budapest: Does EU Framework Program participation contribute to regional development? A time-space analysis of FP network quality and patenting in CEE Objective 1 regions
- 2013. May 24. Régiók fejlesztése konferencia PTE KTK, Pécs: Kék Gazdaság típusú innovációk gazdasági hatásainak becslése a GMR-Európa modell felhasználásával.
- 2013. May 23. Régiók fejlesztése konferencia PTE KTK, Pécs: Intézményi és regionális tényezők az európai egyetemi szabadalmaztatás hátterében.
- 2012. November 23. MRTT Éves Konferencia, Győr. Régióközi tudáshálózatok minőségének hatása a kutatási teljesítményre.
- 2011 6<sup>th</sup> International Seminar on Regional Innovation Policies, University of Lund, Lund, Sweden: Modeling the economic impacts of regional R&D subsidies: [The GMR-Europe model and its application for EU Framework Program policy impact simulations](#), October 13-14.
- 2011 Annual Meetings European Regional Science Association, Barcelona, Spain: Modeling the growth effects of R&D promotion: The GMR-Europe model and its application for EU Framework Program policy impact simulations, August 31.
- 2009 Annual Meetings European Regional Science Association, Lodz, Poland: Agglomeration and network effects in regional R&D productivity. August 27.
- 2009 Regional Studies Association Annual Conference, Leuven: Agglomeration and network effects in regional R&D productivity, April 6.
- 2008 II. Conference of the Hungarian Society for Economics, Budapest: Agglomeration and network effects in R&D effectiveness, December 18.
- 2008 North American Section of the Regional Science Association International, New York, NY, USA: Integrating the effects of geography into EU Cohesion Policy impact modeling: The GMR-approach, November 22.
- 2008 II. World Conference of the Spatial Econometrics Association, New York, NY, USA: Agglomeration effects in R&D policy effectiveness: The case of the European Union's Framework Programs, November 17
- 2006 Annual Meetings European Regional Science Association, Volos, Greece: Endogenizing Spatial Economic Structure in a Complex Macro-Regional Model for Development Policy Analysis: The GMR-Hungary Model
- 2006 DIME Workshop on RAL3, WIIW Vienna, Austria, February 4: Endogenizing spatial economic structure in a macro-regional modeling framework
- 2005 Annual Meetings European Regional Science Association, Amsterdam, The Netherlands: Localized knowledge inputs and innovation: The role of spatially mediated knowledge spillovers in new EU member countries from Central Europe – the case of Hungary
- 2004 Annual Meetings European Regional Science Association, Porto, Portugal: Macroeconomic effects of the geography of knowledge production: EcoRET, a macroeconomic model with regionally endogenized technological change for Hungary

- 2004 Annual Meetings European Regional Science Association, Porto, Portugal: Entrepreneurship, agglomeration and technological change
- 2003 50<sup>th</sup> North American Meetings Regional Science Association International, Philadelphia, USA: Regional innovation in the US over space and time
- 2003 50<sup>th</sup> North American Meetings Regional Science Association International, Philadelphia, USA: Knowledge spillovers, agglomeration and macroeconomic growth. An empirical approach
- 2002 Annual Meetings European Regional Science Association, Dortmund, Germany: Regional Innovation in the US over Space and Time
- 2001 Annual Meetings European Regional Science Association, Zagreb, Croatia: Production of knowledge and geographically mediated spillovers from universities. A spatial econometric perspective and evidence from Austria
- 1999 North American Meetings Regional Science Association International, Montreal, Canada: Geography, endogenous growth and innovation
- 1999 North American Meetings Regional Science Association International, Montreal, Canada: Technological innovation and interfirm cooperation. An exploratory analysis using survey data from manufacturing firms in the metropolitan region of Vienna.
- 1999 North American Meetings Regional Science Association International, Montreal, Canada: Localized Knowledge Transfers and Technological Innovation: A Panel Data Spatial Econometric Analysis
- 1999 Annual Meetings European Regional Science Association, Dublin, Ireland: Technological innovation and interfirm cooperation. An exploratory analysis using survey data from manufacturing firms in the metropolitan region of Vienna.
- 1998 North American Meetings Regional Science Association International, Santa Fe, NM: Patents and innovation counts as measures of regional production of new knowledge
- 1998 Annual Meetings European Regional Science Association, Vienna, Austria: Local academic knowledge spillovers and the concentration of economic activity.
- 1998 Annual Meetings Southern Regional Science Association, Savannah, GA: The effect of agglomeration on local academic knowledge spillovers
- 1997 North American Meetings Regional Science Association International, Buffalo, NY: Differential agglomeration economies in the sectoral impacts of university research on high technology innovation.
- 1996 "The Role of Research University in the Regional Economy" workshop at the Regional Research Institute, West Virginia University: Regional economic effects of university research
- 1996 North American Meetings Regional Science Association International, Arlington, VA: Local geographic spillovers between university research and high technology innovations
- 1996 Annual Meetings Southern Regional Science Association, Baltimore, MD: The spatial pattern of innovative activity in U.S. high technology
- 1995 North American Meetings Regional Science Association International, Cincinnati, OH: Universities and the spatial pattern of innovative activity in U.S. manufacturing