

Tomasz Szapiro – Brief CV

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Education

2003 Professor (title), Economics (Econometrics, Operational Research),
State Commission for Scientific Degrees, Warsaw, Poland.

1992 Habilitation, Economics (Operations Research),
SGH Warsaw School of Economics, Warsaw, Poland.

1981 Ph.D. in Mathematics, Polish Academy of Science,
Institute of Mathematics, Warsaw, Poland.

1973 M.Sc. in Physics (Mathematical Methods of Physics),
Warsaw University, Faculty of Physics, Warsaw, Poland.

Duties

Since 1973 SGH Warsaw School of Economics, Warsaw, Poland,
currently tenured Professor in the Institute of Econometrics.

2012-2016 Rector of SGH Warsaw School of Economics

1995-2012 Head of Division of Decision Analysis and Support,
Institute of Econometrics, SGH Warsaw School of Economics,
Warsaw, Poland.

Since 1995 - Professor at the Institute for Modern Civilization,
SGH Warsaw School of Economics, currently Warsaw Technical
University, Warsaw, Poland

1999-2006 Member of Polish-American MBA Council, University of Minnesota
and SGH joint Program

1993-1996 Dean of Diploma Studies at SGH, SGH Senate Member

Academic Honors

- Member of the Board of National Council for Science and Higher Education and the Head of the Commission for Education and the Head the Commission for International Affairs, 2018-2021.
- Member of the Board of Conference of Rectors of Academic Schools in Poland (CRASP), the Head of CRASP Commission for Accreditations in Rankings and Anti-crisis Team, 2020-2024.
- Since 2019 Member of Council of National Science Center.
- Member of Board of the Commission for Research and Innovation, Polish Olympic Committee, 2016-2017.
- Member of Board of the Economic Award of the President of Poland 2013-2015.
- Member of the Advisory Committee of the Strategic Economic Thought, Deputy Prime Minister of Poland and Minister of Economy, 2013-2015,
- Adjunct Professor of International Business Studies at Carlson School of Business, University of Minnesota, Minneapolis USA.

- General Co-Chair of the INFORMS GDN Conference Group Decision and Negotiation GDN 2015, Warsaw, 2015.
- Vice-President of Confederation of Rectors of Economic Universities in Poland, 2012 – 2016
- Member of Program Committee of „Multiple Criteria Decision Making”, Academic Press, Katowice Economic University, 2013-2020.
- Member of the Research Council of Social Research Institute, Warsaw University, Warsaw, Poland, nomination of the Rector of Warsaw University, three terms.
- Member of the Research Council of System Research Institute, Polish Academy of Sciences, Warsaw, Poland, two terms, 1999-2007.
- Member of the Program Council of Science Festival, Warsaw, Poland, eight terms, 1997 – 2007.
- Vice-President of the Polish Chapter of INFORMS – Information Science, Operations Research, Managements Science Society, since 1996.
- Chairman of the Selection Committee of the Annual Awards for Research of nationwide weekly "Polityka", since 2000.
- Chairman of the multidisciplinary Ministerial Team for the evaluation of applications for granting scholarships to outstanding young researchers for the period 2011-2013.
- Member of the team of experts of the "Leader" project - I, II and III edition, National Research and Development Centre on the recommendation of KRUE.
- EPAS Accreditation Team Member, EC.

Research Interests

- Decision Analysis Methods and Application,
- Multiple Criteria Decision Analysis,
- Application of Operations Research and Artificial Intelligence in Management and Economics,
- Negotiation Support Procedures,
- Economics of Education, Economics of Privacy.

Research Activities

- Supervision of sixteen Ph.D. theses completed; twice PhD Committee member at the Université Catholique Louvain Belgium.
- Research collaboration with Center of Operations Research and Econometrics, Université Catholique Louvain-la-Neuve, Belgium; Department of Economics, University of Arizona, Tucson, USA; Department of Computer Science, University of Ottawa, Canada; Institute for Big Data Analytics, Dalhousie University, Halifax, Canada; Institute for Computer Science and E-Commerce, State Technical University, Odessa, Ukraine.
- Visiting Scholar at Université Catholique Louvain-la-Neuve (Belgium), University of Ottawa and Carleton University (Canada).
- Winner of the professor subsidy *Master* granted by the Foundation for Polish Science to people who are able to effectively combine academic work with

training young staff, the project "Through education to economic growth. The dynamics of human capital in social and technological networks ", 2007-2010.

- Coordination of grants of State Committee for Scientific Research and grants of the European Commission

Teaching Activities

- Lecturing in Polish and English: Statistical Decision Analysis, Mathematics for Business Students, Management Science, Optimization Methods, Advanced/Calculus, at all levels –Undergraduate, Graduate, Executive and at International MBA Studies; organization and coordination of the Program in Decision Analysis, numerous Master theses supervised.
- Lecturer (Linear Algebra for Business Students,) at Carleton University, Ottawa, Canada.
- Invited courses in application of Operations Research and Management Science in National School of Public Administration, School of Social Sciences (Warsaw University), Carlson School of Management, University of Minnesota, USA (AACSB and NCACS accredited MBA Program in Poland). Awards for excellence in teaching from Polish and Canadian universities.

International Projects

- 2007 - 2013 Regional Foresight for Universities of Warsaw and Mazovia region "Academic Mazovia 2030" project adapting fields of education, models of organization of universities and profile of the graduate labor market needs, the European Development Fund Regional Operational Program "Innovative Economy", Top Expert.
- 2005-2007 "ALIPRO: Supporting the Alignment of IST Research Programs on Mobile Communications in the New Member States", the VI-th Framework, European Commission, Coordination of the International Group (11 countries), "Benchmarking of national and regional research programs"
- 2002-2004 "TAMI - Technology Assessment in Europe; Between Method and Impact", the Vth Framework, European Commission, Coordinator of the Polish Group. 1993-1999 Leader of two TEMPUS Projects funded by European Commission, joint budgets \$930,000.
- 1994-1997 "School of Social Skills", Project Co-Leader, HESP, budget \$640,000.
- 1994-1996 National Project Leader of the Project MENTOR-pl, British Know How Fund.

Academic Awards

- Six Awards of the Minister of Science and Higher Education for Achievements in Organization.
- Six Awards of the Rector of WSE for Achievements in Research, Teaching and Organization.
- Twice Excellence in Teaching Award by the students of Canadian Executive MBA Program.

Consulting and Expert Activities

- Reports for Polish Ministry of Finance and of Education.
- Services for the Polish Ministry of Economy (an Information System) and Treasury Board (representing the Government in the ING Bank Śląski Board of Directors).
- Independent Member of the Supervisory Board (Aviva – Commercial Union).
- Projects for UNIDO (training), European Commission (Project evaluation), Fulbright Selection Commission.

Publications

Selected Monographs and Books edited

- *“A Procedure for Multiattribute Reverse Auctions with two Strategic Parameters”*, with G.E.Kersten and S.Wu, in: *Studies in Systems, Decision and Control, Collective Decisions: Theory, Algorithms And Decision Support Systems*, J.Kacprzyk and T.Szapiro (eds), vol. 392, Chapter 3, Springer Nature Switzerland AG, 2022, pp. 53-81.
- *“Towards assisted rationality switching in negotiations”*, with W.Nieciecka, *Control & Cybernetics*, 2021, vol. 50, nr 1, pp. 127-143.
- *“Negotiation Process Modelling: From Soft and Tacit to Deliberate”*, in: *Handbook of Group Decision and Negotiation*, D. M. Kilgour, C. Eden (eds), 2019 (on line), pp. 231-253.
- *“Women on corporate boards: backgrounds, drivers and mechanisms”*, with M.Aluchna, in: Aluchna M. and Aras G. (eds) *Women on boards. An international perspective*, Routledge, Abingdon, Oxon, 9-32, 2018.
- *“On Tacit Knowledge Impacted Negotiation Compromises”*, *Proceedings of the 18th International Conference on Group Decision and Negotiation*, Xinjia Jiang, Haiyan Xu, Shawei He, Ginger Y. Ke (wyd.), NUA Discussion Papers in Economics and Management, pp. 231-243, 2018.
- *“A Review of Attribute Disclosure Control”*, with S.Matwin, J. Nin, M.Sehatkar, in: Navarro-Arribas G., Torra V. (eds) *Advanced Research in Data Privacy. Studies in Computational Intelligence*, vol 567. Springer, Cham, 2015.
- *Outlooks and Insights on Group Decision and Negotiation*, *Proceedings*, co-editor, *Springer Lecture Notes in Business Information Processing*, vol. 218, Warsaw, 2015.
- *Process Project Management in ICT*, in Polish, with K. Jasińska, Polish Scientific Publishers PWN, 2014,
- *Privacy – the right or the product*, in Polish, editor, XLIII Research Bulletin of the Institute of Modern Civilization, Warsaw, 2008.
- *The Socio-Economic Transformation* (guest co-editor with Z. Nahorski and J Owsiński), Macmillan Palgrave, 2007.
- *Discovering Patterns in Economic Data*, Editor, *Annals of College of Economic Analyses*, vol. XVII, 2007.
- *Humanity and Technology*, in Polish, Co-Editor, XXXIV Research Bulletin of the Institute of Modern Civilization, Warsaw, 2006.
- *Academic Warsaw*, in Polish, Co-Editor, XLI Research Bulletin of the Institute of Modern Civilization, Warsaw, 2008.

- *Scientific Periodicals – Decline or Transformation*, in Polish, Co- Editor, XXXIX Research Bulletin of the Institute of Modern Civilization, Warsaw, 2007.
- *Teaching of Thinking*, in Polish, Co-Editor, XXXVII Research Bulletin of the Institute of Modern Civilization, Warsaw, 2007.
- *Polish Universities in the XXI Century*, in Polish, Co-Editor, XXXII Research Bulletin of the Institute of Modern Civilization, Warsaw, 2006.
- *Roles Symbols Play* (ed.), in Polish, SGGW Press, Warsaw, 2006.
- *Mechanisms Shaping Educational Decisions* (co-editor with B. Minkiewicz and co-author), in Polish, WSE PRESS, Warsaw, 2004.
- *Information Science in Social Policy*, (co-editor with M. Muraszkievicz and J. Nowak and co-author), in Polish, The Polish Informatics Society Press, 2003.
- *Memory and Action* (ed.), in Polish, SGGW Press, Warsaw, 2002.
- *Educational Biograms* (co-editor with B. Minkiewicz and co-author), SIMP Press, Warsaw, 2001.
- *Transition to Advanced Market Economies*, Annals of Operations Research, Guest Editor of the Special Issue, with Z. Nahorski and J. Owsinski, Vol. 97, 2000.
- *Managerial Decisions Using Excel* (ed. and co-author), Polish Economic Publishers PWE, Warsaw, 2000.
- *Internet – New strategy for the firm* in Polish, with: R. Ciemniak, Difin, Warsaw, 1999.
- *Poland and European Integration – Information Aspects* (ed.), (in Polish), SGGW Press, Warsaw, 1999.
- *Inter-university Teaching* (ed.), SGGW Press, Warsaw, 1999.
- *Calculus. Manual for Economists* (in Polish; with: W. Dubnicki and J. Kłopotowski), 2nd ed. revised and changed (1st in 1996), PWN, Warsaw, 1999.
- *Pondering Decisions* in Polish, Polish Science Publishers PWN, Warsaw, 1993.
- *Interactive Approach in Decision Support* in Polish, Habilitation Monograph, Monographs and Report Series, Vol. 338, WSE PRESS, Warsaw, 1991.

Selected Articles and Conference Papers

- “*Women in Corporate Boards. Backgrounds, Drivers and Mechanisms*” (współautor M. Aluchna), w: *Women on Corporate Boards: An International Perspective (Finance, Governance and Sustainability)*, M. Aluchna i G. Aras (wyd.), Routledge, pp. 9-32, 2018.
- “*A Review of Attribute Disclosure Control*”, S. Matwin, J. Nin, M. Sehatkar (współaut.), w: “*Advanced Research on Data Privacy*”, G. Navarro-Arribas i C. Torra (wyd.), Studies in Computational Intelligence, vol. 567, pp. 41-62, Springer, 2015.
- “*Penalty Rules in Multicriteria Genetic Search*”, (co-author: G. Koloch) in: Shi, Y., Wang, S., Kou, G. and Wallenius, J. (eds.), “*New State of MCDM in the 21st Century*”, *Lecture Notes in Economics and Mathematical Systems*, Vol. 648, Springer, June 2011, pp. 91-102.

- “Bireference Procedure fBIP for Interactive Multicriteria Optimization with Fuzzy Coefficients”, co-author P. Wojewnik, *Central European Journal of Economic Modelling and Econometrics*, Nr 3, pp. 169-193, 2010.
- "Data privacy: from technology to economics", co-author S. Matwin, in: "Advances in Machine Learning II", *Springer's Studies in Computational Intelligence*, J. Koronacki, S.T. Wierzchon, Z.W. Raś, J. Kacprzyk (ed.), Springer, pp. 43-74, vol. 263, 2010, ISBN 978-3-642-05178-4.
- “Iterative Decision Cycle”, in Polish, *Optimum Studia Ekonomiczne*, 2010, vol. 4 (48), pp. 109-129.
- *On Conditional Value-at-Risk Based Goal Programming Portfolio Selection Procedure*, co-authors: M. Czupryna and B. Kamiński, in: *Multiobjective Programming and Goal Programming: Theoretical Results and Practical Applications*, *Lecture Notes in Economics and Mathematical Systems*, ed. Barichard, V.; Ehrgott, M.; Gandibleux, X.; T'Kindt, V., Springer, vol. 618, pp. 243-252, 2009.
- “Intelligent Learning of Behavioral Decision Patterns From Business Data”, in: “Customer Experience Management. Informational Approach to Driving User Centricity”, B. Jacobfeuerborn (ed.), MOST, Warsaw, pp. 59-72, 2009.
- “Marketing Strategies In ICT. Marketing Approach vs. Sales Approach”, co-author K. Siedlecka, in: “Customer Experience Management. Informational Approach to Driving User Centricity”, B. Jacobfeuerborn (ed.) MOST, Warsaw, pp. 87-112, 2009.
- “Data privacy: lessons from economics”, co-author S. Matwin, in: *Proceedings Data Mining & Privacy*, *First Interdisciplinary Workshop on Mobility, Data Mining & Privacy*, of the Conference “Mobility, 2008, Rome, Italy.
- „Academic Achievements of Leonid Hurwicz”, in Polish, co-authors K. Karbownik & G. Koloch, *Wiadomości Statystyczne*, 2008, Vol. 2, pp. 20-25.
- “Privacy Trade and Economy”, in Polish, co-author S. Matwin, in: „Privacy – right or product”, *XLIII Bulletin of the Modern Civilization Institute*, Warsaw, pp. 23-37, 2008.
- “An Attempt to Use Rough Sets in Conflict Analysis of the European Budget Compromising”, co-author I. Gruszka, in: *Group Decision and Negotiation 2007 Proceedings Vol.II. InterNeg*, Kersten G.E., Rios J., Chen E. (eds.), Concordia University, Montreal, Canada, pp. 95-112, 2007
- “Negotiating an Investment Startegy with Fuzzy Redescriptions”, co-author P. Wojewnik, in: *Group Decision and Negotiation 2007 Proceedings*, G.E. Kersten, Rios J., Chen E. (eds.), Vol.II. *InterNeg*, Concordia University, Montreal, Canada, pp. 403-414, 2007.
- „Social Capital and Investment Attractiveness”, with: J. Kochanowicz and E. Sójkowska, *Annals of the College of Economic Analyses*, “Discovering Patterns in Economic Data”, T. Szapiro (ed.), pp. 119-140, vol. XVII, 2007.
- „Social Capital and Economic Development. Automated Generation of Research Hypotheses”, with: A. Głównka and D. Wachol, *Annals of the College of Economic Analyses*, “Discovering Patterns in Economic Data”, T. Szapiro (ed.), vol. XVII, pp. 141-166, 2007.
- “Towards a Framework for Assessing the Impact of Technology Assessment” (co-author) in: “Bridges between Science, Society and Policy. Technology Assessment - Methods and Impact”, M. Decker and M. Ladikas (eds), Springer, Berlin Heidelberg New York, 2004.

- “Culturally-based framing factors that Influence Technology Assessment”, in: “*Bridges between Science, Society and Policy. Technology Assessment - Methods and Impact*”, M. Decker and M. Ladikas (eds), Springer, Berlin Heidelberg New York, 2004.
- “*Business Education*, in: *Unemployment and Economic Growth*”, Warsaw World Economy Research Institute, WSE, 2004
- “*Using Internet in International Negotiations*”, in Ukrainianm co-author V. Lubchenko, in: *Virtuality and Education*, W.A. Grjeboniuk and W.W. Sjemjeniec (eds), 2003.
- “*Structural marketing innovation conflict analysis and support*”, with J.Matyisiewicz, Control and Cybernetics, pp. 203-225, Vol. 30, nr 2, 2001.
- “*On Testing Performance of a Negotiation Procedure in Distributed Environment*”, with: P.Polak, in: “*Multiple Criteria Decision Making in the New Millennium*”, M. Köksalan and S.Zionts, (eds), Proceedings of the XVth International Conference on Multiple Criteria Decision Making, Ankara, July 10-14, 2000, Lecture Notes in Economics and Mathematical Systems, Vol. 507, 2001, XII, pp. 93-
- „*Toward Net Negotiations*”, with: P. Polak, in: Proceedings of the Conference „*On the Foundations and Application of Utility, Risk and Decision Theory - FUR VIII*”, Mons, May 14-16, 1997.
- “*Computer-based Analysis of an Economy in Transition to Steady State Equilibrium*”, with: K. Cichocki, Proceedings of the International Conference “*Artificial Intelligence in Economics and Management*”, pp. 175-191, Tel Aviv, 1996.
- „*Quantitative Methods for Transition to Free Market*”, with: K.Cichocki and T.Kuszeowski, in: Proceedings of the Conference „*Education for Transition to Market Economy*”, K.Cichocki and P.Marer (eds), pp. 202-214, Polish Fulbright Alumni Association. Warsaw, 1996.
- “*Convergence of the Bi-Reference Procedure in Multiple Criteria Decision Making*”, *Ricerca Operativa*, Vol. 23, nr 66, pp. 65-86, 1993.
- “*A Bi-Reference Procedure for Interactive Multiple Criteria Programming*”, with: W. Michałowski, *Operations Research*, 1992, Vol. 40, nr 1, pp. 247-258.
- “*Genetic Algorithms Approach to a Negotiation Support System*”, *IEEE Transactions on Systems, Man and Cybernetics*, with S.Matwin and K.Haigh, Vol. 21, nr 1, pp. 102-114, 1991.
- “*A Procedure for Worst Outcomes Displacement in Multiple Criteria Decision Making*”, with: W. Michałowski, *Computers and Operations Research*, Vol. 16, nr 3, pp. 195-206, 1989.
- „*A Safe Choice Procedure in Interactive Programming*”, with: W. Michałowski, in: Proceedings of the International Conference on Multiple Criteria Decision Making, “*Improving Decision Making in Organizations*”, A. G. Lockett and G. Islei (eds), Manchester 1988, Springer-Verlag, Berlin, t. 335, pp. 454-461, Berlin, 1989.
- „*A Machine Learning, Genetic-Based Support for a Bargaining Problem*”, with: S. Matwin, in: Proceedings of the International Conference on Multiple Criteria Decision Making “*Applications in Industry and Service*”, Bangkok Dec. 6-8 1989, pp. 435-450, AIT Bangkok, 1989.

- „*Negotiating of Quasi-Concave Aspiration Functions*”, with: G. E. Kersten, Belgian Journal of Operations Research, Statistics and Computer Sciences, vol. 27, nr 3, pp. 17-42, 1987.
- "Generalized Approach to Modeling Negotiations", European Journal of Operational Research, Vol. 26, nr 1, pp. 142-149, 1986, with G.E. Kersten.
- „A Redescription of a Negotiating Problem with Decision Makers under Pressures”, co-author G. E. Kersten, in: „*Compromise, Negotiation and Group Decision*”, B. Munier and M.F. Shakun (eds), Dordrecht: Reidel Publ. Cy, pp. 177-194, 1988.
- "The Calculus of Variations for Multiple Integrals Depending on Higher Order Derivatives", Annals of Global Analysis and Geometry, Vol. 2, nr 1, pp. 19-54, 1984.
- “Geodesic Fields in the Calculus of Variations for Multiple Integrals Depending on Higher Order Derivatives”, in: „*Differential Geometrical Methods in Mathematical Physics*”, P.L.Garcia, A.Perez-Rendon, J.M.Souriau (eds), Vol. 836, pp. 504-511, 1979.

Invited presentations

- Invited lectures at North Caroline State University ("*Poland and the EU-Past and Current Issues with Economic Integration*", "*The Hen or the Egg: Decision Theory or Application*", "*Mathematical models and negotiation*"), 2017.
- „*Role of rankings in university ecosystem*”, „Hochschulrektorenkonferenz (HRK) - Conference des Directeurs des Ecoles Francaises d’Ingenieurs (CDEFI) – Conference of Rectors of Academic Schools in Poland (CRASP), Trilateral Meeting, Kraków, and at the Conference
- “*Building global presence – impact of rankings in CEE research landscape*”, Elsevier Research Intelligence, Warsaw, 2016.
- Presentations on transformation of the Polish educational system and economy at Universities in US (University North Caroline, Kenan-Flagler Business School, Economics Department, Germanic and Slavic Center; Meredith College, Raleigh; 2016.
- Presentations on transformation of the Polish educational system and economy at Universities in US and Canada (Nevada) and Canada (Lee Business School, University of Nevada w Las Vegas; College of Business University of Nevada, Reno; Center for Entrepreneurship & Technology University of Berkeley; Sauder School of Business University of British Columbia, Ted Rogers School of Management, Ryerson University), 2015.
- Presentations on transformation of the Polish educational system and economy at Universities in US and Canada (Illinois; Northeastern Illinois University, Chicago and School of Business Administration), University of Illinois, 2013.
- “*European projects for a sustainable growth*”, Europe Conf., Paris, 2013.
- Presentations on transformation of the Polish educational system and economy at Universities in US (Silicon Valley); San Jose State University, 2013.
- “*Impacts of Changes in Educational Markets Structure: Challenges, Tools. Early Conclusions*”, the Department of Europe, International Monetary Fund, Washington, USA, September 9, 2010.

- "*Endogenous infeasibility penalties in multiobjective genetic search*", with G.Koloch, MCDM 2009, Chendgu, China, 2009.
- „*People in Digital Worlds. Numbers in People’s World*”. The Polish Academy of Skills, Cracow, 2009, in Polish.
- “*Economic aspects of data privacy protection*”, SSOKU09 - 1st European Conference on Software Services and SOKU technologies, Brussels, 2009.
- “*Discovering Patterns in Economic Data*”; Decision Engineering Institute, Universidad Rey Juan, Madrid, Spain, 2008.
- “*Fuzzy Multiple Criteria Negotiation Support: Bridging Subjectivity with Imprecise Conflict Redescription*”, Concordia, Montreal, 2006.
- “*Decision. Bridging goals with Assets*”, presentation for Mobile Open Society Technology Foundation, Siofok, Hungary.
- “*The changing mission of the University - East and West*”, panel debate, Education Leadership Program of A.Christian Endavour Foundation, 1999.
- „*On Stability of Solutions of Systems of Ordinary Differential Equations Modeling Markets with Permanent Shortage*”, Department of Mathematics and Statistics, Carleton University, Ottawa, Canada, 1989.
- „*Must Queues Exist in the Economy of Shortage?*”, School of Business, Carleton University, Ottawa, Canada, 1989.
- „*On a MCDM model for Negotiations*”, School of Management, University of Buffalo, USA, 1989.
- “*An Interactive Procedure for Individual Choice Problems*”, Department of Management Science and Information Technology, University of Georgia, Athens, USA, 1989.
- „*A Procedure for Finding the Fittest Rules in the Bargaining Problem*”, Department of Computer Science, University of Ottawa, Canada, 1989.
- “*Architecture of a Forecast Support System*”, Istituto di Statistica, Universita di Siena, Siena, Italy, 1991.
- „*In a Search of a Model for Universities: Problem of Definition and Implementation*”, panel debate „Organizational Changes in Universities”, IMHE-OECD, Warsaw, 1994.
- „*Transforming Education Systems in Poland of Nineties*”, Carlson School of Management, University of Minnesota, 1995.
- „*The triangle: liberal education - economy - civil society: the Polish case*”, contribution in the debate „What does liberal education offer the civil society?”, Budapest, 1996.

References - Available upon request