CURRICULUM VITAE

Frank H. Westerhoff

University of Bamberg
Department of Economics
Chair of Economic Policy
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Personal data

Date and place of birth: 29/07/1970, Lohne, Germany

Marital status: married, two children

Citizenship: German

Academic appointments

Professor, University of Bamberg, 10/2006-present

Assistant Professor, University of Osnabrück, 10/2005-09/2006

Guest Lecturer, University of Bonn, 04/2005-09/2005

Assistant Professor, University of Osnabrück, 07/2002-03/2005

Visiting Scholar, Hitotsubashi University, 10/1998-12/1998

Teaching Assistant, University of Osnabrück, 07/1997-07/2002

University education

Habilitation in Economics, University of Osnabrück, 11/2005

Ph.D. in Economics, University of Osnabrück, 07/2002

Diploma in Economics, University of Osnabrück, 03/1997

Research interests

Agent-based models of financial markets and the real economy.

Mechanisms of market instabilities and measures to control them.

Complex nonlinear interactions between different markets.

Deterministic and stochastic discrete time dynamical systems.

Publications

Articles in refereed journals

(P90) Dieci, R., Schmitt, N. and Westerhoff, F. (2018): Interactions between stock, bond and housing markets. *Journal of Economic Dynamics and Control*, in press.

(P89) Blaurock, I., Schmitt, N. and Westerhoff, F. (2018): Market entry waves and volatility outbursts in stock markets. *Journal of Economic Behavior and Organization*, in press.

(P88) Panchuk, A., Sushko, I. and Westerhoff, F. (2018): A financial market model with two discontinuities: bifurcation structures in the chaotic domain. *Chaos*, in press.

(P87) Schmitt, N., Tuinstra, J. and Westerhoff, F. (2017): Stability and welfare effects of profit taxes within an evolutionary market interaction model. *Review of International Economics*, in press.

(P86) Franke, R. and Westerhoff, F. (2017): Taking stock: a rigorous modelling of animal spirits in macroeconomics. *Journal of Economic Surveys*, Vol. 31, 1152-1182.

(P85) Schmitt, N. and Westerhoff, F. (2017): Heterogeneity, spontaneous coordination and extreme events within large-scale and small-scale agent-based financial market models. *Journal of Evolutionary Economics,* Vol. 27, 1041-1070.

(P84) Schmitt, N. and Westerhoff, F. (2017): On the bimodality of the distribution of the S&P 500's distortion: empirical evidence and theoretical explanations. *Journal of Economic Dynamics and Control*, Vol. 80, 34-53.

(P83) Schmitt, N., Tuinstra, J. and Westerhoff, F. (2017): Side effects of nonlinear profit taxes in a behavioral market entry model: abrupt changes, coexisting attractors and hysteresis problems. *Journal of Economic Behavior and Organization*, Vol. 135, 15-38.

(P82) Schmitt, N. and Westerhoff, F. (2017): Herding behaviour and volatility clustering in financial markets. *Quantitative Finance*, 17, 1187-1203.

(P81) Schmitt, N. and Westerhoff, F. (2016): Stock market participation and endogenous boom-bust dynamics. *Economics Letters*, Vol. 148, 72-75.

(P80) Schmitt, N. and Westerhoff, F. (2016): Evolutionary competition and profit taxes: market stability versus tax burden. *Macroeconomic Dynamics*, in press.

(P79) Dieci, R. and Westerhoff, F. (2016): Heterogeneous expectations, boom-bust housing cycles, and supply conditions: a nonlinear dynamics approach. *Journal of Economic Dynamics and Control*, Vol. 71, 21-44.

(P78) Tramontana, F. and Westerhoff, F. (2016): Piecewise-linear maps and their application to financial markets. *Frontiers in Applied Mathematics and Statistics*, Vol. 2, Article 10.

(P77) Franke, R. and Westerhoff, F. (2016): Why a simple herding model may generate the stylized facts of daily returns: explanation and estimation. *Journal of Economic Interaction and Coordination*, Vol. 11, 1-34.

(P76) Schmitt, N. and Westerhoff, F. (2015): Managing rational routes to randomness. *Journal of Economic Behavior and Organization*, Vol. 116, 157-173.

(P75) Sushko, I., Tramontana, F., Westerhoff, F. and Avrutin, V. (2015): Symmetry breaking in a bull and bear financial market model. *Chaos, Solitons and Fractals*, Vol. 79, 57-72.

(P74) Tramontana, F., Westerhoff, F. and Gardini, L. (2015): A simple financial market model with chartists and fundamentalists: market entry levels and discontinuities. *Mathematics and Computers in Simulation*, Vol. 108, 16-40.

(P73) Tuinstra, J., Wegener, M. and Westerhoff, F. (2014): Positive welfare effects of trade barriers in a dynamic partial equilibrium model. *Journal of Economic Dynamics and Control*, Vol. 48, 246-264.

(P72) Schmitt, N. and Westerhoff, F. (2014): Speculative behavior and the dynamics of interacting stock markets. *Journal of Economic Dynamics and Control*, Vol. 45, 262-288.

(P71) Tramontana, F., Westerhoff, F. and Gardini, L. (2014): One-dimensional maps with two discontinuity points and three linear branches: mathematical lessons for understanding the dynamics of financial markets. *Decisions in Economics and Finance*, Vol. 37, 27-51.

(P70) Dieci, R. and Westerhoff, F. (2013): On the inherent instability of international financial markets: natural nonlinear interactions between stock and foreign exchange markets. *Applied Mathematics and Computation*, Vol. 221, 306-328.

(P69) Tramontana, F., Westerhoff, F. and Gardini, L. (2013): The bull and bear market model of Huang and Day: Some extensions and new results. *Journal of Economic Dynamics and Control*, Vol. 37, 2351-2370.

(P68) Westerhoff, F. (2012): Interactions between the real economy and the stock market: A simple agent-based approach. *Discrete Dynamics in Nature and Society*, Vol. 2012, Article ID 504840.

(P67) Franke, R. and Westerhoff, F. (2012): Structural stochastic volatility in asset pricing dynamics: estimation and model contest. *Journal of Economic Dynamics and Control*, Vol. 36, 1193-1211.

(P66) Dieci, R. and Westerhoff, F. (2012): A simple model of a speculative housing market. *Journal of Evolutionary Economics*, Vol. 22, 303-329.

(P65) Lines, M. and Westerhoff, F. (2012): Effects of inflation expectations on macroeconomic dynamics: extrapolative versus regressive expectations. *Studies in Nonlinear Dynamics and Econometrics*, Vol. 16, Issue 4, Article 7.

(P64) Wegener, M. and Westerhoff, F. (2012): Evolutionary competition between prediction rules and the emergence of business cycles within Metzler's inventory model. *Journal of Evolutionary Economics*, Vol. 22, 251-273.

(P63) Westerhoff, F. und Franke, R. (2012): Converse trading strategies, intrinsic noise and the stylized facts of financial markets. *Quantitative Finance*, Vol. 12, 425-436.

(P62) Tramontana, F., Gardini, L. and Westerhoff, F. (2011): Heterogeneous speculators and asset price dynamics: further results from a one-dimensional discontinuous piecewise-linear map. *Computational Economics*, Vol. 38, 329-347.

(P61) Franke, R. and Westerhoff, F. (2011): Estimation of a structural stochastic volatility model of asset pricing. *Computational Economics*, Vol. 38, 53-83.

(P60) Dieci, R. and Westerhoff, F. (2010): Interacting cobweb markets. *Journal of Economic Behavior and Organization*, Vol. 75, 461-481.

(P59) Westerhoff, F. and Hohnisch, M. (2010): Consumer Sentiment and Countercyclical Fiscal Policies. *International Review of Applied Economics*, Vol. 24, 609-618.

(P58) Westerhoff, F. (2010): An agent-based macroeconomic model with interacting firms, socio-economic opinion formation and optimistic/pessimistic sales expectations. *New Journal of Physics*, Vol. 12, 075035.

(P57) Westerhoff, F. and Wieland, C. (2010): A behavioral cobweb model with heterogeneous speculators. *Economic Modelling*, Vol. 27, 1136-1143.

(P56) Hermsen, O., Witte, B.-C. and Westerhoff, F. (2010): Disclosure requirements, the release of new information and market efficiency: new insights from agent-based models. Economics: The Open-Access, Open-Assessment E-Journal, Vol. 4, Article ID: 2010-7.

(P55) Tramontana, F., Westerhoff, F. and Gardini, L. (2010): On the complicated price dynamics of a simple one-dimensional discontinuous financial market model with heterogeneous interacting traders, *Journal of Economic Behavior and Organization*, Vol. 74, 187-205.

(P54) Dieci, R. and Westerhoff, F. (2010): Heterogeneous speculators, endogenous fluctuations and interacting markets: a model of stock prices and exchange rates. *Journal of Economic Dynamics and Control*, Vol. 34, 743-764.

(P53) Lines, M. and Westerhoff, F. (2010): Inflation expectations and macroeconomic dynamics: the case of rational versus extrapolative expectations. *Journal of Economic Dynamics and Control*, Vol. 34, 246-257.

(P52) Dieci, R. and Westerhoff, F. (2009): Stability analysis of a cobweb model with market interactions. *Applied Mathematics and Computation*, Vol. 215, 2011-2023.

(P51) Pellizzari, P. and Westerhoff, F. (2009): Some effects of transaction taxes under different microstructures. *Journal of Economic Behavior and Organization*, Vol. 72, 850-863.

(P50) Tramontana, F., Gardini, L., Dieci, R. and Westerhoff, F. (2009): The emergence of "bull and bear" dynamics in a nonlinear model of interacting markets. *Discrete Dynamics in Nature and Society*, Vol. 2009, Article ID 310471.

(P49) Wegener, M., Westerhoff, F. and Zaklan, G. (2009): A Metzlerian business cycle model with nonlinear heterogeneous expectations. *Economic Modelling*, Vol. 26, 715-720.

(P48) Zaklan, G., Westerhoff, F. and Stauffer, D. (2009): Analysing tax evasion dynamics via the Ising model. *Journal of Economic Interaction and Coordination,* Vol. 4, 1-14.

(P47) Sushko, I., Wegener, M., Westerhoff, F. and Zaklan, G. (2009): Endogenous business cycle dynamics within the inventory model of Metzler: Adding an inventory floor. *Nonlinear Dynamics in Psychology and Life Sciences*, Vol. 13, 223-233.

(P46) Westerhoff, F. (2008): Consumer sentiment and business cycles: A Neimark-Sacker bifurcation scenario. *Applied Economics Letters*, Vol. 15, 1201-1205.

(P45) Zaklan, G., Lima, W. and Westerhoff, F. (2008): Controlling tax evasion fluctuations. *Physica A*, Vol. 387, 5857-5861.

(P44) Westerhoff, F. (2008): The use of agent-based financial market models to test the effectiveness of regulatory policies. *Jahrbücher für Nationalökonomie und Statistik (Journal of Economics and Statistics)*, Vol. 228, 195-227.

(P43) Hohnisch, M. and Westerhoff, F. (2008): Business cycle synchronization in a simple Keynesian macro-model with socially transmitted economic sentiment and international sentiment spill-over. *Structural Change and Economic Dynamics*, Vol. 19, 249-259.

(P42) Kopel, M., Westerhoff, F. and Wieland, C. (2008): Regulating complex dynamics in firms and economic systems. *Chaos, Solitons and Fractals*, Vol. 38, 911-919.

(P41) Westerhoff, F. (2008): Heuristic expectation formation and business cycles: A simple linear model. *Metroeconomica*, Vol. 59, 47-56.

(P40) Hilker, F. and Westerhoff, F. (2007): Preventing extinction and mass outbreaks in irregularly fluctuating populations. *American Naturalist*, Vol. 170, 232-241.

(P39) Hilker, F. and Westerhoff, F. (2007): Triggering crashes in chaotic dynamics. *Physics Letters A*, Vol. 362, 407-411.

(P38) Westerhoff, F. (2007): On central bank interventions and transaction taxes. *Applied Financial Economics Letters*, Vol. 3, 11-14.

(P37) Westerhoff, F. and Hohnisch, M. (2007): A note on interactions-driven business cycles. *Journal of Economic Interaction and Coordination*, Vol. 2, 85-91.

(P36) Manzan, S. and Westerhoff, F. (2007): Heterogeneous expectations, exchange rate dynamics and predictability. *Journal of Economic Behavior and Organization*, Vol. 64, 111-128.

(P35) Reitz, S. and Westerhoff, F. (2007): Commodity price cycles and heterogeneous speculators: A STAR-GARCH model. *Empirical Economics*, Vol. 33, 231-244.

(P34) Corron, N., He, X.-Z. and Westerhoff, F. (2007): Butter mountains, milk lakes and optimal price limiters. *Applied Economics Letters*, 14, 1131-1136.

(P33) Hilker, F. and Westerhoff, F. (2006): The paradox of simple limiter control. *Physical Review E*, Vol. 73, 052901 (3).

(P32) Westerhoff, F. (2006): Nonlinear expectation formation and endogenous business cycles. *Studies in Nonlinear Dynamics and Econometrics*, Vol. 10, Issue 4, Article 4.

(P31) Ehrenstein, G. and Westerhoff, F. (2006): The working of circuit breakers within percolation models for financial markets. *International Journal of Modern Physics C*, Vol. 17, 299-304.

(P30) Westerhoff, F. (2006): Business cycles, heuristic expectation formation and contracyclical policies. *Journal of Public Economic Theory*, Vol. 8, 821-838.

(P29) Reitz, S., Westerhoff, F. and Wieland, C. (2006): Target zone interventions and coordination of expectations. *Journal of Optimization Theory and Applications*, Vol. 128, 453-467.

(P28) Westerhoff, F. (2006): Samuelson's multiplier-accelerator model revisited. *Applied Economics Letters*, Vol. 13, 89-92.

(P27) Westerhoff, F. and Dieci, R. (2006): The effectiveness of Keynes-Tobin transaction taxes when heterogeneous agents can trade in different markets: A behavioral finance approach. *Journal of Economic Dynamics and Control*, Vol. 30, 293-322.

(P26) Westerhoff, F. (2006): Technical analysis based on price-volume signals and the power of trading breaks. *International Journal of Theoretical and Applied Finance*, Vol. 9, 227-244.

(P25) Westerhoff, F. (2005): Consumer behavior and fluctuations in economic activity. *Advances in Complex Systems*, Vol. 8, 209-215.

(P24) Westerhoff, F. (2005): The impact of flow analysis on exchange rate dynamics. *Finance Letters*, Vol.3, Issue 3.

(P23) Wieland, C. and Westerhoff, F. (2005): Exchange rate dynamics, central bank intervention and chaos control methods. *Journal of Economic Behavior and Organization*, Vol. 58, 117-132.

(P22) He, X.-Z. and Westerhoff, F. (2005): Commodity markets, price limiters and speculative price dynamics. *Journal of Economic Dynamics and Control*, Vol. 29, 1577-1596.

(P21) Manzan, S. and Westerhoff, F. (2005): Representativeness of news and exchange rate dynamics. *Journal of Economic Dynamics and Control*, Vol. 29, 677-689.

(P20) Westerhoff, F. and Reitz, S. (2005): Commodity price dynamics and the nonlinear market impact of technical traders: Empirical evidence for the U.S. corn market. *Physica A*, Vol. 349, 641-648.

(P19) Westerhoff, F. (2005): Heterogeneous traders, price-volume signals and complex asset price dynamics. *Discrete Dynamics in Nature and Society*, Vol. 2005, 19-29.

(P18) Ehrenstein, G., Westerhoff, F. and Stauffer, D. (2005): Tobin tax and market depth. *Quantitative Finance*, Vol. 5, 213-218.

(P17) Westerhoff, F. (2004): Speculative dynamics, feedback traders and transaction taxes: A note. *Jahrbuch für Wirtschaftswissenschaften/Review of Economics*, Vol. 55, 190-195.

(P16) Westerhoff, F. and Wieland, C. (2004): Spill-over dynamics of central bank interventions. *German Economic Review*, Vol. 5, 435-450.

(P15) Westerhoff. F. and Manzan, S. (2004): Does liquidity in the FX market depend on volatility? *Economics Bulletin*, Vol. 6, No. 10, 1-8.

(P14) Westerhoff, F. (2004): Greed, fear and stock market dynamics. *Physica A*, Vol. 343, 635-642.

(P13) Westerhoff, F. (2004): Market depth and price dynamics: A note. *International Journal of Modern Physics C*, Vol. 15, 1005-1012.

(P12) Westerhoff, F. (2004): Multiasset market dynamics. *Macroeconomic Dynamics*, 8, 596-616.

(P11) Westerhoff, F. and Reitz, S. (2003): Nonlinearities and cyclical behavior: the role of chartists and fundamentalists. *Studies in Nonlinear Dynamics and Econometrics*, Vol. 7, Issue 4, Article 3.

(P10) Westerhoff, F. (2003): Market maker, inventory control and foreign exchange dynamics. *Quantitative Finance*, Vol. 3, 363-369.

(P09) Westerhoff, F. (2003): Bubbles and crashes: optimism, trend extrapolation and panic. *International Journal of Theoretical and Applied Finance*, Vol. 6, 829-837.

(P08) Westerhoff, F. (2003): Heterogeneous traders and the Tobin tax. *Journal of Evolutionary Economics*, Vol. 13, 53-70.

(P07) Westerhoff, F. (2003): Central bank intervention and feedback traders. *Journal of International Financial Markets, Institutions and Money*, Vol. 13, 419-427.

(P06) Westerhoff, F. (2003): Speculative markets and the effectiveness of price limits. *Journal of Economic Dynamics and Control*, Vol. 28, 493-508.

(P05) Westerhoff, F. (2003): Anchoring and psychological barriers in foreign exchange markets. *Journal of Behavioral Finance*, Vol. 4, 65-70.

(P04) Westerhoff, F. (2003): Speculative behavior and asset price dynamics. *Nonlinear Dynamics, Psychology, and Life Sciences*, Vol. 7, 245-262.

(P03) Westerhoff, F. (2003): Expectations driven distortions in the foreign exchange market. *Journal of Economic Behavior and Organization*, Vol. 51, 389-412.

(P02) Lawrenz, C. and Westerhoff, F. (2003): Modeling exchange rate behavior with a genetic algorithm. *Computational Economics*, Vol. 21, 209-229.

(P01) Westerhoff, F. (2001): Speculative behavior, exchange rate volatility, and central bank intervention. *Central European Journal of Operations Research*, Vol. 9, 31-50.

Miscellaneous

(M17) Westerhoff, F. and Franke, R. (2018): Agent-based models for policy analysis: two illustrative examples. In: Chen, S.-H., Kaboudan, M. and Du, Y.-R. (eds.): The Oxford Handbook of Computational Economics and Finance. Oxford University Press, Oxford, 520-558.

(M16) Schmitt, N., Tuinstra, J. and Westerhoff, F. (2017): Market interactions, endogenous dynamics and stabilization policies. In: Commendatore, P., Kubin, I., Bougheas, S., Kirman, A., Kopel, M. and Bischi, G.I (eds.): The Economy as a Complex Spatial System. Springer, Berlin, 137-152.

(M15) Westerhoff, F. (2014): Review of Behavioral Rationality and Heterogeneous Expectations in Complex Economic Systems by Cars Hommes. *Jahrbücher für Nationalökonomie und Statistik (Journal of Economics and Statistics)*, Vol. 234, 528-530.

(M14) Dieci, R. and Westerhoff, F. (2013): Modeling house price dynamics with heterogeneous speculators. In: Bischi, G.I., Chiarella, C. and Sushko, I. (eds): *Global Dynamics in Economics and Finance. Essays in Honour of Laura Gardini*. Springer, Berlin, 35-61.

(M13) Tramontana, F. and Westerhoff, F. (2013): One-dimensional discontinuous piecewise-linear maps and the dynamics of financial markets. In: Bischi, G.I., Chiarella, C. and Sushko, I. (eds): *Global Dynamics in Economics and Finance. Essays in Honour of Laura Gardini*. Springer, Berlin, 205-227.

(M12) Tramontana, F. and Westerhoff, F. (2012): The dynamics of financial markets and one-dimensional discontinuous piecewise-linear maps. AENORM, Vol. 20/76, 33-41.

(M11) Tramontana, F., Gardini, L. and Westerhoff, F. (2010): Intricate asset price dynamics and one-dimensional discontinuous maps. In: Puu, T. and Panchuck, A. (eds): *Nonlinear economic dynamics*. Nova Science Publishers, New York, 43-57.

(M10) Westerhoff, F. (2010): A simple agent-based financial market model: direct interactions and comparisons of trading profits. In: Chiarella C., Bischi G.I. and Gardini L. (eds.): *Nonlinear dynamics in economics, finance and the social sciences*. *Essays in Honour of John Barkley Rosser Jr*. Springer, Berlin, 313-332.

(M09) Tramontana, F., Gardini, L., Dieci, R. and Westerhoff, F. (2010): Global bifurcations in a three dimensional financial model of "bull and bear" interactions. In: Chiarella C., Bischi G.I. and Gardini L. (eds.): *Nonlinear dynamics in economics, finance and the social sciences. Essays in Honour of John Barkley Rosser Jr*. Springer, Berlin, 333-352.

(M08) Westerhoff, F. (2009): Agentenbasierte Finanzmarktmodelle. *uni.vers*, Vol. 15, 8-11.

(M07) Lux, T. and Westerhoff, F. (2009): Economics crisis. *Nature Physics*, Vol. 5, 2-3.

(M06) Westerhoff, F. (2009): Exchange rate dynamics: A nonlinear survey. In: Rosser, J.B. (ed): *Handbook of Research on Complexity*. Edward Elgar, Cheltenham, 287-325.

(M05) Lines, M. and Westerhoff, F. (2006): Expectations and the multiplier-accelerator model. In: T. Puu and I. Sushko (eds): *Business Cycles Dynamics. Models and Tools.* Springer, Berlin, 255-276.

(M04) Westerhoff, F. (2005): *Regulation and control of financial markets*. Kumulative Habilitationsschrift, Department of Economics, University of Osnabrück.

(M03) Westerhoff. F. and Wieland, C. (2004): Central bank interventions, chartists and the FX markets. *The Technical Analyst*, Vol. 1, Issue 2, 36-37.

(M02) Westerhoff, F. (2002): *Chartists, fundamentalists and exchange rate fluctuations*. Shaker-Verlag: Aachen.

(M01) Westerhoff, F. (1999): Japan in der Krise. In: Wacker, G. and C. Müller-Hofstede (Eds.): *Asienkrise, Demokratie, Nationalismus. Neue Wechselwirkungen zwischen Politik und Ökonomie in Ostasien*. Bundesinstitut für ostwissenschaftliche und internationale Studien: Köln, 23-28.

Working papers

Martin, C. and Westerhoff, F. (2018): Regulation speculative housing markets via public housing construction programs: Insights from a heterogeneous agent model. Working Paper, University of Bamberg.

Dieci, R., Schmitt, N. and Westerhoff, F. (2018): Steady states, stability and bifurcations in multi-asset market models. Working Paper, University of Bamberg.

Hilker, F. and Westerhoff, F. (2005): Simple models of controlling chaotic population dynamics.

Services as referee

Editorial boards and editorial activities

Journal of Economic Behavior and Organization, Associate Editor, 10/2008-12/2013

Economics: The Open-Access, Open-Assessment E-Journal, Associate Editor, since 11/2009

Journal of Economic Dynamics and Control, Associate Editor, since 01/2010

Journal of Economics and Statistics, Advisory Board, since 04/2012

Studies in Nonlinear Dynamics and Econometrics, Special Issue Editor, Vol. 16, Issue 4, 2012

Frontiers in Applied Mathematics and Statistics, Review Editor, since 11/2015

Journal of Economic Interaction and Coordination, Associate Editor, since 12/2015

Journal articles

American Economic Journal: Microeconomics, American Economic Review, Applied Economics, Applied Mathematical Finance, Applied Mathematics and Computation, Chaos: An Interdisciplinary Journal of Nonlinear Science, Computational Economics, Computational Statistics and Data Analysis, Decisions in Economics and Finance, Discrete Dynamics in Nature and Society, Econometrics and Statistics, Economica, Economics Letters, Economic Journal, Economic Modelling, Economics, Economics Research International, European Economic Review, European Journal of Finance, European Physical Journal B, Europhysics Letters, Fluctuations and Noise Letters, Games and Economic Behavior, Macroeconomic Dynamics, Mathematics and Computers in Simulation, Nonlinear Dynamics, IEEE Transactions on Evolutionary Computation, Information Sciences, International Economic Review, International Economics and Economic Policy, International Review of Applied Economics, International Review of Economics, Journal of Artificial Societies and Social Simulation, Journal of Banking and Finance, Journal of Behavioral Finance, Journal of Economic Behavior and Organization, Journal of Economic Dynamics and Control (Outstanding Referee 2006, 2008, 2011), Journal of Economic Interaction and Coordination, Journal of Economics and Statistics (Jahrbücher für Nationalökonomie und Statistik), Journal of Empirical Finance, Journal of Evolutionary Economics, Journal of International Economics, Journal of International Financial Markets, Institutions and Money, New Journal of Physics, Open Economies Review, Oxford Economic Papers, Physica A, PLoS ONE, Review of Behavioral Economics, Review of International Economics, Structural Change and Economic Dynamics, Studies in Nonlinear Dynamics and Econometrics, The Economics of Transition

Book chapters and book proposals

Cambridge University Press, de Gruyter, Elsevier, Idea, North-Holland, Springer, Routledge, World Scientific Press

Science foundations

DFG – Deutsche Forschungsgemeinschaft, Germany

FES – Friedrich-Ebert-Stiftung (Vertrauensdozent), Germany

FWF – Austrian Science Fund, Austria

OeNB – Austrian National Bank (Jubiläumsfonds), Austria

NSF – National Science Foundation, USA

NWO – Netherlands Organization for Scientific Research, The Netherlands

ÖAW – Austrian Academy of Science, Austria

SNF – Swiss National Science Foundation, Switzerland

ZEW – Center for European Economic Research, Germany

Conference program committees

Workshop on New Approaches to Macro-Financial Instability and Inequality, Bamberg, 2018

GENED Meeting, Bamberg, 2016

Workshop on Managing Financial Instability in Capitalistic Economies, Reykjavik, 2010

Workshop on Economics with Heterogeneous Interacting Agents, Alessandria, 2010

Workshop on Interacting Agents and Nonlinear Dynamics in Macroeconomics, Udine, 2010

Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics, Amsterdam, 2010

Workshop on Managing Financial Instability in Capitalistic Economies, Reykjavik, 2009

Agent-Based Approaches in Economic and Social Complex Systems, Taiwan, 2009

Workshop on Computational Intelligence in Economics and Finance, Taiwan, 2006

International Conference on Simulated Evolution and Learning, Hefei, 2006

Workshop on Computational Intelligence in Economics and Finance, Salt Lake City, 2005

PhD committees

Bamberg, Giessen, Leuven, Nijmegen, Singapore, Sydney, Vienna.

Presentations

Conferences and workshops

Summer School in Economics and Finance, Canazei, 2017

International Conference of the Society for Computational Economics, New York, 2017

International Conference of the Society for Computational Economics, Bordeaux, 2016

The GeComplexity Conference, Heraklion, 2016

Dynamic Macroeconomics Workshop, Kiel Institute for the World Economy, 2015

GENED Meeting, Darmstadt, 2014

Workshop on Dynamic Models in Economics and Finance, Urbino, 2014

CeNDEF@15 Symposium, Amsterdam, 2013

Workshop on Nonlinear Economic Dynamics, Siena, 2013

International Workshop on Nonlinear Dynamics, Agent-based Models, and Complex Evolving Systems in Economics, Bologna, 2013

Workshop on Network and Heterogeneity in (Financial) Markets, Marseille, 2013

Workshop on Dynamic Models in Economics and Finance, Urbino, 2012

International Conference of the Society for Computational Economics, Prague, 2012

Rethinking Economic Policies in a Landscape of Heterogeneous Agents, Milan, 2011

Amsterdam Symposium on Behavioral and Experimental Economics, Amsterdam, 2011
Nonlinear Economic Dynamics and Financial Market Modeling, Guangzhou, 2011
Quantifying and Understanding Dysfunctions of Financial Markets, Leuven, 2010
Artificial Economics 2010, Treviso, 2010
International Conference of the Society for Computational Economics, London, 2010
Workshop on Interacting Agents and Nonlinear Dynamics in Macroeconomics, Udine, 2010
Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics, Amsterdam, 2010
Workshop on Nonlinear Economic Dynamics, Jönköping, 2009
Workshop on Agent Based Models in Economic Policy Advice, Mannheim, 2009
Conference on Heterogeneous Agents in Financial Markets, Rotterdam, 2009
Nonlinear Economic Dynamics and Financial Market Modeling, Beijing, 2008
Workshop on Dynamic Models in Economics and Finance, Urbino, 2008
Workshop on Nonlinear Economic Dynamics, Bielefeld, 2007
Workshop on Economics with Heterogeneous Interacting Agents, Bologna, 2006
Third International Meeting on Complexity, Aix-en-Provence, 2006
Workshop on Computational Political Economics, Bielefeld, 2006
Workshop on Bubbles, Herding and Market Crashes, Kiel, 2005
Ausschuss für Makroökonomik, Bonn, 2005
Workshop on Agent-Based Models for Economic Policy Design, Bielefeld, 2005
Workshop on Economics with Heterogeneous Interacting Agents, Essex, 2005
Society for Nonlinear Dynamics and Econometrics, London, 2005
New Economic Windows, Salerno, 2004
International Conference of the Society for Computational Economics, Amsterdam, 2004
Workshop on Nonlinear Dynamics in Economics, Triest, 2004
Annual Congress of the European Economic Association, Stockholm, 2003
International Conference of the Society for Computational Economics, Seattle, 2003
Workshop on Economics with Heterogeneous Interacting Agents, Kiel, 2003
Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics, Vienna, 2003
Second International Meeting on Complexity, Aix-en-Provence, 2003
Society for Nonlinear Dynamics and Econometrics, Florence, 2003
Bundesbank Workshop on Computational Economics and Finance, Eltville, 2002
CeNDEF Workshop on Economic Dynamics, Leiden, 2002
Jahrestagung des Vereins für Socialpolitik, Magdeburg, 2001
International Conference of the Society for Computational Economics, New Haven, 2001

CeNDEF Workshop on Economic Dynamics, Amsterdam, 2001

ZEI Summer School on International Finance, Bad Honnef, 2000

International Conference of the Society for Computational Economics, Barcelona, 2000

Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics, Vienna, 2000

CeNDEF Workshop on Economic Dynamics, Amsterdam, 2000

ZEI Summer School on International Macroeconomics, Bad Honnef, 1999

Nachwuchstagung Asienkrise, Demokratie, Nationalismus, Brühl, 1999

Young Economist Meeting, Amsterdam, 1999

Invited talks

2017: University of Amsterdam. 2010: University of Bielefeld, Katholieke Universiteit Leuven. 2006: University of Bamberg, University of Nürnberg, University of Leipzig, University of Göttingen. 2005: University of Mainz, Technical University of Braunschweig, University of Essen, Technical University of Dresden, University of Bremen, Technical University of Berlin, University of Münster, University of Bonn, University of Cologne. 2004: University of Bielefeld, University of Hanover. 2003: University of Amsterdam. 2002: University of Kiel, University of Prague, University of Münster

University services (selection)

Speaker of the Department of Economics, Bamberg

Chairman of the Board of Examiners, Bamberg

Chairman/Member of Chair Search Committees, Bamberg and Osnabrück

Member of the Faculty Committee, Osnabrück

Teaching experience

Lectures at undergraduate level

Macroeconomics I (University of Bamberg)

Macroeconomics II (University of Bamberg)

Monetary Policy of the ECB (University of Bamberg)

Empirical Macroeconomics (University of Bamberg)

Lectures at graduate level

Economic Dynamics (Universities of Bamberg and Osnabrück)

Financial Market Dynamics (Universities of Bamberg, Bonn and Osnabrück)

Regulation of Financial Markets (Universities of Bamberg, Bonn and Osnabrück)

Lectures at postgraduate level

Financial Markets: Stylized Facts, Nonlinear Models and Regulatory Issues (AMASES)

Tutorials at undergraduate level

Macroeconomics I (University of Bamberg)

Macroeconomics II (University of Bamberg)

Deductive Statistics (University of Osnabrück)

Inductive Statistics (University of Osnabrück)

Seminars at undergraduate level

Various seminars on European Economic Issues (University of Bamberg)

Various seminars on Quantitative Economics (University of Bamberg)

Seminars at graduate level

Various seminars on International Economics (University of Osnabrück)

Various seminars on Economic Policy (University of Bamberg, University of Bonn)

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