

Curriculum Vitae

Herbert Dawid

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Affiliation:

Department of Business Administration and Economics
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Date of Birth: 01/30/1969

Place of Birth: Vienna, Austria

Educational Background:

Habilitation, Operations Research: University of Vienna, 1999.

Doctoral Degree, Mathematical Methods in Economics: Vienna Univ. of Technology, 1995.
Dissertation: Genetic Learning in Economic Systems

Diploma (Dipl. Ing.), Mathematical Methods in Economics: Vienna Univ. of Technology, 1993.

Academic Appointments:

Full Professor (W3), Chair for Economic Theory and Computational Economics,
Department of Business Administration and Economics, Bielefeld University, 2010 - present.
Full Professor, Institute of Mathematical Economics (IMW), Bielefeld University, 2004 - present.

Full Professor (C4/W3), Chair for Economic Policy, Department of Business Administration and Economics, Bielefeld University, 2003 - 2010.

Associate Professor, Department of Economics, University of Southern California, Los Angeles, 1999 - 2002.

Associate Professor (Ao. Univ. Prof.), Department of Management Science, University of Vienna, 1999 - 2002 (on leave 1999 - 2001).

Assistant Professor, Department of Management Science, University of Vienna, 1996 - 1999.
Research Associate, Department of Operations Research, Vienna University of Technology, 1993-1996.

Visiting Positions:

Visiting Professor, Universite Paris 1 Pantheon-Sorbonne, March/April 2010, March 2015

Visiting Professor, University of Technology Sydney, November 2010

Program for Economic Research, Columbia University, NY, May 2007

Associated Researcher, GREQAM (Aix-Marseille), June 2006-August 2006.

Visiting Professor, Universite d'Aix-Marseille II, May 2002, April 2004.

Visiting Scholar, Department of Economics, University of Southern California, 1996-1997.

Fields of Interest:

Economic Dynamics, Agent-based Computational Economics, Economics of Innovation, Evolutionary Game Theory, Dynamic Optimization

Awards:

Figdor-Prize for Law, Social Sciences, and Economics of the Austrian Academy of Sciences, 2001.

Best Paper Award, Symposium: Simulation of Social Behavior and Artificial Economy, Vienna 2000.

'Young Economist Award', Workshop on Economics with Heterogeneous Interacting Agents, Ancona 1998.

Research Award 1995 of the Austrian Society of Operations Research.

Editorial Activities:

Journal of Economic Dynamics and Control (Co-Editor, since 2010)

Dynamic Games and Applications (Associate Editor, since 2013)

Journal of Economic Behavior and Organization (Associate Editor, 2004-2013)

Journal of Evolutionary Economics (Editorial Board, since 2000)

Springer Lecture Notes in Economics and Mathematical Systems (Editorial Board, since 2004)

Advisory Board Memberships:

Scientific Committee of the Complexity Lab in Economics, Catholic University of Milano

Advisory Council of the Society for Computational Economics (2008-2011)

Scientific Advisory Council of the Center for Interdisciplinary Research (ZiF) at Bielefeld University

Executive Committee of the Nonlinear Economic Dynamics Society

Board of the Department of Applied Mathematics, University Paris 1, Pantheon-Sorbonne

Invited Plenary Talks at International Conferences:

International Conference on 'Finance and Economic Growth in the Aftermath of the Crisis', Milano, September 2017.

6th World Congress of the International Microsimulation Association, Torino, June 2017.

GeComplexity Conference (The EU in the new economic complex geography), Crete, May 2016.

2nd International Conference on Behavioral, Economic and Social-Cultural Computing, Nanjing, China, November 2015.

13th Viennese Workshop on Optimal Control and Dynamic Games, Vienna, May 2015

15th International Schumpeter Society Conference, Jena, July 2014.

35th AMASES Annual Conference, Pisa, September 2011

Econophysics Colloquium 2010, Taipei, November 2010

6th European Meeting on Applied Evolutionary Economics (EMAEE), Jena, May 2009

10th Annual Workshop on Economics with Interacting Heterogeneous Agents (WEHIA 2005), University of Essex, June 2005

Coordination of International Collaborative Research and Training Projects
(funded by third parties):

Coordinator of the Marie Skodowska-Curie European Training Network ExSIDE (Expectation and Social Influence Dynamics in Economics), funded by the European Union (REA) under H2020, 2017-2020.

Coordinator of the European Doctorate in Economics - Erasmus Mundus (EDEEM) funded by the European Union (EACEA) under FP7 and H2020, 2013- 2019

Spokesperson of the International Research Training Group (Int. Graduiertenkolleg) 'Economic Behavior and Interaction Models' with the University Paris 1 (Pantheon-Sorbonne) funded by the German Science Foundation (DFG), 2009-2015.

Third Party Grants(only projects where I was the sole or a main applicant are listed):

Project 'Innovation dynamics under market uncertainty and financial constraints' funded by the German Science Foundation (DFG) within the Collaborative Research Center (SFB 1283) 'Taming uncertainty and profiting from randomness and low regularity in analysis, stochastics and their applications', 2017 - 2021.

Project 'The Role of Professional Networks and Firm Hierarchies for Individual Careers and Wage Inequality' (jointly with Anna Zaharieva) funded by the German Science Foundation (DFG), 2017-2020.

Leader of the Bielefeld research unit in the EU H2020-project ISIGrowth (Innovation-fuelled, Sustainable, Inclusive Growth), 2015-2018.

Consultancy on 'Economy as a Complex Systems' with IPEA (Instituto de Pesquisa Economica Aplicada) Brazil financed by the Inter-American Development Bank, 2014.

Project 'Dynamic Oligopolistic Competition between Innovating Firms' (jointly with Peter Kort) funded by the German Science Foundation (DFG) and the NWO, 2013-2016.

Project 'Skill Heterogenitäten, Technologischer Wandel und wandelnde Perspektiven am Arbeitsmarkt' funded by the German Science Foundation (DFG) within the SFB 882 'Von Heterogenitäten zu Ungleichheiten', 2011-2016.

Project 'EDE-NET (European Doctorate in Economics-Network)' funded by the German Academic Exchange Service (DAAD), 2010-2014.

Project 'Aufbau eines Agentenbasierten Simulationsmodells über die Diffusion von elektromobilen Fahrzeugen' jointly with different Insititutes of the Fraunhofer Society, funded by the German Ministry for Education and Research (BMBF), 2009 - 2010.

Leader of the Bielefeld research unit in the EU STREP-project EURACE ('An agent-based software platform for Euopean economic policy design with heterogeneous interacting agents') funded in the 6th EU-FP, 2006 - 2009.

Vice-Spokesperson and project 'Knowledge Diffusion and Innovative Activity' in the International Research and Training Group (Int. Graduiertenkolleg) 'Economic Behavior and Interaction Models' funded by the German Science Foundation (DFG) and the German-French University (DFH/UFA), 2005-2009.

Project 'Stochastic Dynamic Issues in Implementation: Applications to Mathematical Fi-

nance and Norm Formation' in the International Research and Training Group (Int. Graduiertenkolleg) 'Stochastics and Real World Models' funded by the German Science Foundation (DFG), 2006-2010.

'Simulation Study of the Austrian Energy Imbalance Market', funded by the Austrian Power Clearing and Settlement AG (jointly with R.F. Hartl and G. Ortner), 2002-2003.

National Science Foundation (USA) Grant SES 0095606 'The Evolution of Investment Conventions', 2001-2002 (jointly with Bentley MacLeod).

Member of the special research program 'Adaptive Modelling and Information Systems in Economics and Management Science' funded by the Austrian Science Foundation, 1997 - 2002.

Erwin Schrödinger Grant of the Austrian Science Foundation, 1996 - 1997.

Referee:

Journals:

Journal of Political Economy, Econometrica, Journal of Economic Theory, Journal of Economic Dynamics and Control, Games and Economic Behavior, Economic Theory, Journal of Economic Behavior and Organization, IEEE Transactions on Evolutionary Computation, IEEE Transactions on Neural Networks plus approximately 25 additional scientific journals in Economics, Operations Research and Computer Science.

Publishers:

Academic Press, MIT Press, Oxford University Press, Cambridge University Press, Springer

Science Foundations:

German Science Foundation, National Science Foundation (USA), Austrian Science Foundation, Canadian Research Council, Ministero dell' Istruzione dell' Università e della Ricerca (Italy), Netherlands Organization for Scientific Research, Science Foundation of Ireland, European Commission.

Conferences:

Member of the Programm Committee of 16 international conferences and workshops since 2010.

Memberships:

Research Committee on Economic Theory (Ausschuss für Wirtschaftstheorie) of the Verein für Socialpolitik

Research Committee on Evolutionary Economics (Ausschuss für Evolutorische Ökonomik) of the Verein für Socialpolitik

Econometric Society, Society for Computational Economics, International Schumpeter Society, Verein für Socialpolitik, German Economic Association of Business Administration, Österreichische Gesellschaft für Operations Research

Administrative Duties and Committee Work:

Chairman of the Bielefeld Graduate School of Economics and Management (BiGSEM), since 2009

Director of the Bielefeld Graduate School in Theoretical Sciences (BGTS), since 2017

Vice-Dean, Department of Business Administration and Economics, Bielefeld University, April 2015- March 2017

Dean, Department of Business Administration and Economics, Bielefeld University, April 2011- Sep. 2013

Member of the Senate of Bielefeld University, 2006 - 2011, 2014 - 2016.

Member of the Committee for Resource and Financial Planning (Finanzkommission) of Bielefeld University, 2008 - 2011.

Member of the 'Fakultätskonferenz' of the Department of Business Administration and Economics, 2004 - 2013.

Member of the Joint Graduate Committee of the Erasmus Mundus Master Programme 'QEM: Models and Methods of Quantitative Economics', together with Universities Paris I, Universitat Autònoma de Barcelona, Università Ca' Foscari di Venezia, 2005 - present

Publications:

Books:

Dawid, H. (1999), *Adaptive Learning by Genetic Algorithms, Analytical Results and Applications to Economic Models*, 2nd extended and revised edition, Springer.

Edited Volumes:

Bischi, G.-I., Dawid, H., Dieci, R. and A. Matsumoto (Eds.) (2017), *Nonlinear Economic Dynamics*, special issue of the Journal of Evolutionary Economics, 27 (5).

Dawid, H. and M. Falcone (Eds.) (2017), *Numerical Methods for Dynamic Games*, special issue of the Journal Dynamic Games and Applications, 7.

Dawid H., Dörner K.F., Feichtinger G., Kort P.M. and Seidl, A. (Eds.) (2016), *Dynamic Perspectives on Managerial Decision Making*, Springer.

Dawid, H. and W. Semmler (Eds.) (2011), *Computational Methods in Economic Dynamics*, Springer.

Dawid, H. and W. Semmler (Eds.) (2010), *Computational perspectives in economics and finance: Methods, dynamic analysis and policy modeling*, special issue of the Journal of Economic Dynamics and Control, 34.

Dawid, H. and G. Fagiolo (Eds.) (2008), *Agent Based Models for Economic Policy Design* special issue of the Journal of Economic Behavior and Organization, 67.

Dawid, H., Dörner, K., Dorffner, G., Fent, T., Feurstein, M., Hartl, R.F., Mild, A., Natter, M., Reimann, M., Taudes, A. (Eds.) (2002), *Quantitative Models of Learning Organizations*, Springer.

Dawid, H., Feichtinger, G. and R.F. Hartl (Eds.) (2001), *Nonlinear Dynamics: Theory and Economic Applications*, special issue of the *Central European Journal of Operations Research*, 9.

Dawid, H., Feichtinger, G. and R.F. Hartl (Eds.) (1999), *Optimal Control and Differential Games*, Annals of Operations Research, **88**.

Dawid, H., Feichtinger, G. and R.F. Hartl (Eds.) (1999), *Nonlinear Dynamical Systems and Adaptive Methods*, Annals of Operations Research, **89**.

Refereed Journals:

Dawid H, Harting P, van der Hoog S, Neugart M (2017), 'A Heterogeneous Agent Macroeconomic Model for Policy Evaluation: Improving Transparency and Reproducibility', forthcoming in *Journal of Evolutionary Economics*.

Colombo, L., Dawid, H., Piva, M. and M. Vivarelli (2017): 'Does Easy Start- Up Formation Hamper Incumbents R&D Investment? A Theoretical and Empirical Analysis,' *Small Business Economics*, 49(3), 513-531.

Dawid, H., Harting, P. and M. Neugart (2017), Fiscal Transfers and Regional Economic Growth, forthcoming in *Review of International Economics*.

- Dawid H, Keoula M, Kort PM (2017), 'Numerical Analysis of Markov-Perfect Equilibria with Multiple Stable Steady States: A Duopoly Application with Innovative Firms', *Dynamic Games and Applications*, 7, 555-577.
- van der Hoog, S. and H. Dawid (2017), 'Bubbles, Crashes and the Financial Cycle: Insights from a Stock-Flow Consistent Agent-Based Macroeconomic Model', forthcoming in *Macroeconomic Dynamics*.
- Dawid, H. and B. Zou (2017), 'Foreign direct investment with endogenous technology choice', *Pacific Economic Review*, 22, 3-22.
- Dawid, H., Decker, R., Hermann, T., Jahnke, H., Klatt, W., König, R. and C. Stummer (2017), 'Management science in the era of smart consumer products: Challenges and research perspectives', *Central European Journal of Operations Research*, 25, 203-230.
- Colombo, L. and H. Dawid (2016). 'Complementary Assets, Start-Ups and Incentives to Innovate', *International Journal of Industrial Organization*, 44, 177-190.
- Dawid H, Keoula M, Kopel M, and P.M. Kort (2015), 'Product Innovation Incentives by an Incumbent Firm: A Dynamic Analysis', *Journal of Economic Behavior and Organization*, 117, 411-438.
- Dawid, H. and G. Muehlheusser (2015), 'Repeated Selection with Heterogenous Individuals and Relative Age Effect', *Journal of Economic Behavior and Organization*, 116, 387-406.
- Colombo, L. and H. Dawid (2014), 'Strategic Location Choice Under Dynamic Oligopolistic Competition and Spillovers', *Journal of Economic Dynamics and Control*, 48, 288-307.
- Dawid, H. and S. Gemkow (2014), 'How do social networks contribute to wage inequality? Insights from an agent-based analysis', *Industrial and Corporate Change*, 23,1171-1200.
- Dawid, H., Harting, P. and M. Neugart (2014), 'Economic Convergence: Policy Implications from a Heterogeneous Agent Model', *Journal of Economic Dynamics and Control*, 44, 54-80.
- Dawid, H. and T. Hellmann (2014), 'The Evolution of R&D Networks', *Journal of Economic Behavior and Organization*, 105, 158-172.
- Dawid, H. and D. Heitmann (2014), 'Best Response Dynamics with Level-n Expectations in Two-Stage Games', *Journal of Economic Dynamics and Control*, 41, 130-153.
- Dawid, H., Kopel, M and P.M. Kort (2013), 'R&D Competition versus R&D Cooperation in Oligopolistic Markets with Evolving Structure', *International Journal of Industrial Organization*, 31, 527-537.
- Dawid, H., Kopel, M. and P.M. Kort (2013), 'New product introduction and capacity investment by incumbents: effects of size on strategy', *European Journal of Operational Research*, 230, 133-142.
- Holcombe, M.,Coakley, S., Kiran, M., Chin, S., Greenough, C, Worth, D., Cincotti, S., Raberto, M., Teglio, A., Deissenberg, C., van der Hoog, S., Dawid, H., Gemkow, S., Harting, P. and Neugart, M. (2013), 'Large-Scale Modeling of Economic Systems', *Complex Systems*, 22, 2.
- Dawid, H., Gemkow, S., Harting, P. and M. Neugart (2012), 'Labor market integration

- policies and the convergence of regions: the role of skills and technology diffusion', *Journal of Evolutionary Economics*, 22, 543-562.
- Colombo, L., Dawid, H. and K. Kabus (2012), 'When do Thick Venture Capital Markets Foster Innovation? An Evolutionary Analysis' *Journal of Evolutionary Economics*, 22, 79-108.
- Dawid, H. and Reimann, M. (2011), 'Diversification: A Road to Inefficiency in Product Innovations?', *Journal of Evolutionary Economics*, 21, 191-229.
- Dawid, H., Kopel, M., Kort, P.M. (2010), 'Dynamic Strategic Interaction Between an Innovating and a Non-innovating Incumbent', *Central European Journal of Operations Research*, 18, 453-463.
- Dawid, H. and M. Neugart (2010), "Agent-based Models for Economic Policy Design", *Eastern Economic Journal*, 37, 44-50.
- Dawid, H. and W. Semmler (2010), "Introduction to the special issue computational perspectives in economics and finance: Methods, dynamic analysis and policy modeling", *Journal of Economic Dynamics and Control*, 34, 1529-1530.
- Dawid, H., Kopel, M. and P. Kort (2010), 'Innovation Threats and Strategic Responses in Oligopoly Markets', *Journal of Economic Behavior and Organization*, 75, 203-222.
- Arifovic, J., Dawid, H., Deissenberg, C. and O. Kostyshyna, (2010), 'Learning Benevolent Leadership in a Heterogenous Agents Economy', *Journal of Economic Dynamics and Control*, 34, 1768-1790.
- Dawid, H., Greiner, A. and B. Zou (2010), 'Optimal Foreign Investment Dynamics in the Presence of Technological Spillovers', *Journal of Economic Dynamics and Control*, 34, 296-311.
- Dawid, H., Gemkow, S., Harting, P., Neugart M., (2009), 'Spatial Skill Heterogeneity and Growth: An Agent-based Policy Analysis', *Journal of Artificial Societies and Social Simulation*, 12(4), 5.
- Dawid, H., Dangl, T. and M. Kopel (2009), 'Trash it or sell it? A strategic analysis of development and market introduction of product innovations', *International Game Theory Review*, 11, 321-345.
- Dawid, H., Feichtinger, G., Goldstein, J.R. and V. Veliov (2009), 'Keeping a Learned Society Young', *Demographic Research*, 20, 541-558..
- Deissenberg, C., van der Hoog, S. and Dawid, H. (2008), 'EURACE: A Massively Parallel Agent-based Model of the European Economy', *Applied Mathematics and Computation*, 204, 541-552.
- Dawid, H., Gemkow, S., Harting, P., Kabus, K., Neugart, M. and Wersching, K. (2008), 'Skills, innovation, and growth: An agent-based policy analysis', *Journal of Economics and Statistics*, 228, 251-275.
- Dawid, H. and MacLeod, W.B. (2008), 'Hold-up and the Evolution of Investment and Bargaining Norms', in *Games and Economic Behavior*, 62, 26-52.
- Dawid, H. and Fagiolo, G. (2008), 'Agent-Based Models for Economic Policy Design: Introduction to the Special Issue', *Journal of Economic Behavior and Organization*, 67, 351-354.

- Dawid, H. and Day, R. (2007), 'On Sustainable Growth and Collapse: Optimal and Adaptive Paths', *Journal of Economic Dynamics and Control*, 31, 2374-2397.
- Dawid, H. (2007), 'Evolutionary game dynamics and the analysis of agent-based imitation models: the long run, the medium run and the importance of a global analysis', *Journal of Economic Dynamics and Control*, 31, 2108-2133.
- Dawid, H. and J. Dermietzel (2006), 'How Robust is the Equal Split Norm? Responsive Strategies, Selection Mechanisms and the Need for Economic Interpretation of Simulation Parameters', *Computational Economics*, 28, 371-397.
- Dawid, H. (2005), "Long Horizon versus Short Horizon Planning in Dynamic Optimization Problems with Incomplete Information", *Economic Theory*, 25, 575-597.
- Dawid, H. and Deissenberg, C. (2005), "On the Efficiency-Effects of Private (Dis-)Trust in the Government", *Journal of Economic Behavior and Organization*, 57, 530-550.
- Dawid, H. and Reimann, M. (2004), 'Evaluating Market Attractiveness: Individual Incentives vs. Industrial Profitability', *Computational Economics*, 24, 321-355.
- Bischi, G.I., Dawid, H. and Kopel, M. (2003), "Gaining the Competitive Edge Using Internal and External Spillovers: A Dynamic Analysis", *Journal of Economic Dynamics and Control*, 27, 2171-2193.
- Bischi, G.I., Dawid, H. and Kopel, M. (2003), "Spillover Effects and the Evolution of Firm Clusters", *Journal of Economic Behavior and Organization*, 50, 47-75.
- Dawid, H. and Kopel, M. (2003), "A Comparison of Exit and Voice Relationships under Common Uncertainty", *Journal of Economics and Management Strategy*, 12, 531-555.
- Dawid, H., Feichtinger, G. and Novak, A. (2002), "Extortion as an Obstacle to Economic Growth: A Dynamic Game Analysis", *European Journal of Political Economy*, 18, 3, 499 - 516.
- Dawid, H. and MacLeod, W.B. (2001), "Holdup and the Evolution of Bargaining Conventions", *European Journal of Economics and Social Systems*, 15, 3, 153-169.
- Dawid H., König J., Strauss, C. (2001), "An Enhanced Rostering Model for Airline Crews", *Computers and Operations Research*, 28, 671 - 688.
- Dawid, H., Reimann, M. and Bullnheimer, B. (2001), "To Innovate or Not To Innovate?", *IEEE Transactions on Evolutionary Computation* (special issue on Agent-based Computational Economics), 5, 471 -481.
- Dawid, H. and Kopel, M. (2001), 'Zur Organisation zwischenbetrieblicher Beziehungen: Sind kurzfristige oder langfristige Vereinbarungen optimal?', *Zeitschrift für Betriebswirtschaftslehre*, 4, 51 - 72 (in german).
- Dawid, H. (2000), "On the Emergence of Exchange and Mediation in a Production Economy", *Journal of Economic Behavior and Organization*, 41, 27 -53.
- Dawid, H. and Kopel, M. (1999), "On Optimal Cycles in Dynamic Programming Models With Convex Return Functions", *Economic Theory*, 13, 309-327.
- Dawid, H. (1999), "On the Dynamics of Word of Mouth Learning with and without Anticipations", *Annals of Operations Research*, 89, 273 - 295.

- Dawid, H. (1999), "On the Stability of the Discrete Time Replicator Dynamics with Inertia", *Mathematical Social Sciences*, 37, 265-280.
- Dawid, H. (1999), "On the Convergence of Genetic Learning in a Double Auction Market", *Journal of Economic Dynamics and Control*, 23, 1545 - 1567.
- Dawid, H. and Kopel, M. (1998), "The Appropriate Design of a Genetic Algorithm in Economic Applications Exemplified by a Model of the Cobweb Type", *Journal of Evolutionary Economics*, 8, 297-315.
- Bullnheimer, B., Dawid, H. and Zeller, R. (1998), "Learning from Own and Foreign Experience: Technological Adaptation by Imitating Firms", *Computational and Mathematical Organization Theory*, 4, 267-282.
- Dawid, H. and Kopel, M. (1997), "On the economically optimal exploitation of a renewable resource: the case of a convex environment and a convex return function", *Journal of Economic Theory*, 76, 272-297.
- Dawid, H. (1997), "Learning of Equilibria by a Population with Minimal Information", *Journal of Economic Behavior and Organization*, 32, 1-18.
- Dawid, H., Kopel, M. and Feichtinger, G. (1997), "Complex solutions of nonconcave dynamic optimization models", *Economic Theory*, 9, 427-439.
- Kopel, M., Dawid, H. and Feichtinger, G. (1997), "Periodic and chaotic programs of intertemporal optimization models with non-concave net benefit function", *Journal of Economic Behavior and Organization*, 33, 435-447.
- Dawid, H. and Mehlmann, A. (1996), "Genetic Learning in Strategic Form Games", *Complexity*, 1, 5, 51-59.
- Dawid, H. and Hornik, K. (1996), "The Dynamics of Genetic Algorithms in Interactive Environments", *Journal of Network and Computer Applications*, 19, 5-19.
- Dawid, H. and Feichtinger, G. (1996), "Optimal Allocation of Drug Control Efforts: A Differential Game Analysis", *Journal of Optimization Theory and Applications*, 91, 2, 279-297.
- Dawid, H. (1996), "Genetic Algorithms as a Model of Adaptive Learning in Economic Systems", *Central European Journal of Operations Research and Economics*, 4, 7-24.
- Dawid, H. (1996), "Learning of cycles and sunspot equilibria by genetic algorithms", *Journal of Evolutionary Economics*, 6, 361-373.
- Dawid, H. and Feichtinger, G. (1996), "On the Persistence of Corruption", *Journal of Economics*, 64, 177-193.
- Dawid, H. and Feichtinger, G. (1995), "Complex optimal policies in an advertising diffusion model", *Chaos, Solitons & Fractals*, 5, 45-53.
- Tragler, G., Feichtinger, G. and Dawid, H. (1994) "Optimal Resource Exploitation May Be Chaotic", *Central European Journal of Operations Research and Economics*, 3, 111-122.
- Dawid, H. (1994), "A Markov Chain Analysis of Genetic Algorithms with a State Dependent Fitness Function", *Complex Systems*, 8, 407-417.

Multiauthor Books and Proceedings:

Dawid, H., Gemkow, S., Harting, P., van der Hoog, S. and M. Neugart (2018), 'Agent-Based Macroeconomic Modeling and Policy Analysis: The Eurace@Unibi Model', Working Paper, Bielefeld University Working Papers in Economics and Management No. 01-2014, forthcoming in Chen, S-H. and Kaboudan, M. (Eds.), "Handbook on Computational Economics and Finance", Oxford University Press.

Colombo, L. and H. Dawid (2017), 'A Dynamic Model of Firms Strategic Location Choice', in Commendatore, P., Kubin, I., Bougeas, S., Kirman, A., Kopel, M. and G.I. Bischi (Eds.), "The Economy as a Complex Spatial System: Macro, Meso and Micro Perspectives", Springer Proceedings in Complexity, pp. 159-177.

Dawid H, Keoula M.Y. and Kort P.M. (2016), 'Skiba Phenomena in Markov Perfect Equilibria of Asymmetric Differential Games', in Dawid H, Dörner KF, Feichtinger G, Kort PM, Seidl A (Eds), "Dynamic Perspectives on Managerial Decision Making", Springer, pp. 63-76.

Dawid, H. (2015), 'Modeling the Economy as a Complex System', in B. Alves Furtado, P.A.M. Sakowski, M.H. Tovoli (Eds.), "Modeling Complex Systems for Public Policies", IPEA, Brasilia, pp. 191-216.

Ausloos, M., Dawid, H. and U. Merlone (2015), 'Spatial interactions in agent-based modeling', in P. Commendatore, S.S. Kayam and I. Kubin (Eds.), *Complexity and Geographical Economics: Topics and Tools*, Springer, pp. 353-377.

Dawid, H. and Zou, B. (2014), "Strategies of Foreign Direct Investment in the Presence of Technological Spillovers", in J.Haunschmied, V.M.Veliov, S.Wrzaczek (Eds.), "Dynamic Games in Economics", Springer, pp. 115-133.

Dawid, H. and P. Harting (2012), "Capturing Firm Behavior in Agent-Based Models of Industry Evolution and Macroeconomic Dynamics", in G. Bünsdorf (Ed.), "Applied Evolutionary Economics, Behavior and Organizations", Edward-Elgar, 103-130.

Dawid, H., Deissenberg, C. and Van der Hoog, S. (2008), "Production and Finance in EU-RACE" in K. Schredelseker, F. Hauser (Eds.), *Complexity and Artificial Markets*, Springer, pp. 147 - 158.

Dawid, H. (2006), "Agent-based Models of Innovation and Technological Change", in L. Tesfatsion and K. Judd (eds.), *Handbook of Computational Economics, Volume 2: Agent-Based Computational Economics*, North-Holland, pp. 1235-1272.

Dawid, H. and Wersching, K. (2006), "On Technological Specialization in Industrial Clusters: An Agent-based Analysis", forthcoming in J.P. Rennard (Ed.), *Handbook of Research on Nature Inspired Computing for Economy and Management*.

Dawid, H., Deissenberg, C. and P. Sevcik (2005), 'Cheaptalk, gullibility, and welfare in an environmental taxation game', in A. Haurie and G. Zaccour, (Eds.), *Dynamic Games: Theory and Applications*, pp. 175-192.

Behrens, D. and Dawid, H. (2004), "Genetic Learning of Nash Equilibria in Illicit Drug Markets and Prerequisites for a Successful Crackdown", in William Barnett, Christophe Deissenberg, and Gustav Feichtinger (Eds.), "Economic Complexity: Non-linear Dynamics, Multi-agents Economies, and Learning", ISETE Vol 14, Elsevier, Amsterdam, pp. 391-410.

Dawid, H., Dörner, K., Hartl, R.F. and Reimann, M. (2002): "Ant based computation in the management sciences", in: Dawid et al (Eds.): *Quantitative models of learning organizations*, Springer, Berlin/Heidelberg, pp 65–94.

H. Dawid (2000), "Learning to Trade and Mediate", in D. Delli Gatti, M. Gallegatti and A. Kirman (Eds.), *Interaction and Market Structure: Essays on Heterogeneity in Economics*, Springer, Berlin, 9 - 32.

Dawid, H. and Kopel, M. (2000), "Market Takeovers in Medieval Trade", in E.J. Dockner et al. (Eds.), *Optimization, Dynamics and Economic Analysis: Essays in Honor of Gustav Feichtinger*, Physica/Springer, Berlin, 118-133.

Behrens, D. and Dawid, H. (2000), "On the Imitation and Communication Effects in Illicit Drug Markets: A Genetic Algorithm Based Model", in R. Trappl (Ed.), *Cybernetics and Systems 2000*, 489 - 494.

Dawid, H., Feichtinger, G. and Jørgensen, S. (1999), "Crime and Law Enforcement: A Multistage Game", in J. Filar, K. Mitzukami and V. Gaitsgory (Eds.), *Advances in Dynamic Games and Applications*, Birkhauser, Boston.

Wirl, F., Novak, A., Feichtinger, G. and Dawid, H. (1997), "Indeterminacy of open-loop Nash equilibria: The ruling class versus the tabloid press, in H.G. Natke, Y. Ben-Hain (Eds.), *Uncertainty: Models and Measures*, Akademie-Verlag, 124-136.

Dawid, H. and Mehlmann, A. (1995), "Two Population Contests and the Language of Genetics", in: G. Paun (Ed.), *Mathematical Linguistics and Related Topics*, Editura Academiei, Bucarest, 88-95.

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