

Domenico Delli Gatti

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July 15 2021

1 Personal Information



Citizenship: Italian

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2 Fields of Specialization

- Macroeconomics
- Monetary Economics
- Agent based Computational Economics

3 Current Position

Professor of Economics, Catholic University in Milan, Department of Economics and Finance. Director of the Complexity Lab in Economics.

4 Previous Positions

- 1992-2000: Associate Professor, Catholic University in Milan.
- 1987-1992: Assistant Professor, Catholic University in Milan.

5 Other Appointments

- 2008: Director, Summer School on “Financial Instability and Financial Crises”, University of Trento
- 1998: Professor, Summer school on “Cycles, Growth and Structural Change”, University of Siena

6 Education

- 1987: Dottorato di ricerca in Economia Politica, Joint Doctoral Program of Catholic University, Bocconi University, State University.
- 1982: Laurea in Economia e Commercio, Catholic University in Milan.

7 Visiting positions

- Visiting Professor
 - Columbia University (every year for the period 2005-2015)
 - CESIFO Munich (2011)
 - Santa Fe Institute (2004)
- Visiting Scholar:
 - University of California in Santa Cruz (1997)
 - Jerome Levy Economics Institute (New York)(1995-1996)
 - New School for Social Research New York (1995)
 - Stanford University (1990-1991)
 - Massachusetts Institute of Technology (1989)
 - University of Cambridge (UK), Faculty of Economics and Politics (1988 and 1990)
 - Washington University in Saint Louis (Missouri).(1987-1988)

8 Fellowships and Honors

- Since 2016: President, Society for Economic Science with Heterogeneous Interacting Agents
- 2017-2019: Member of the advisory council of the Society for Computational Economics

9 Grants

- 2014-2017: Coordinator of the UCSC unit of the 7th FP research project: “Integrated Macro-Financial Modelling for Robust Policy Design” (MACFINROBODS), funded by the European Commission, European Coordinator: Cars Hommes.
- 2013-2016: Coordinator of the UCSC unit of the 7th FP research project: “macro Risk Assessment and STAbilization policies with New Early Warning Signals” (RASTANEWS), funded by the European Commission, European Coordinator: Patrizio Tirelli.
- 2011-2014: European Coordinator of the 7th FP research project: “Complexity Research Initiative on Systemic InstabilitieS” (CRISIS), funded by the European Commission.
- 2011: Coordinator of the INET Research project on Financial Fragility and Systemic Risk: Policy Implications of Heterogeneous Agents Models.
- 2008-2011: European Coordinator of the 7th FP research project: “Monetary, Fiscal and Structural Policies with Heterogeneous Agents” (POLHIA), funded by the European Commission.
- Member of the 7th FP research project “Finance, Innovation & Growth” (FINNOV) and “Forecasting Financial Crises” (FOC).
- National coordinator of the following PRIN (Progetti di Ricerca di Interesse Nazionale) projects funded by the Italian Ministry of the University:
 - 2007-2010: “Proprietà macroeconomiche emergenti in modelli multi-agente: il ruolo della dinamica industriale e della struttura finanziaria”
 - 2004-2007: “Fragilità finanziaria e progresso tecnico con agenti eterogenei e interazione sociale”
 - 2001-2004: “Interazione tra agenti eterogenei, mercati imperfetti, fragilità finanziaria e politica monetaria”
 - 1998-2001: “Agenti eterogenei, fragilità finanziaria e dinamiche complesse”.
- Coordinator of the Catholic University research unit of the following national research project funded by the Italian Ministry of the University:
 - 1992-1995: “Trend e cicli nell’economia italiana”.
 - 1995-1998: ”Nuova Economia Keynesiana”.
- 1997-2000: member of the PHARE-ACE research group (funded by the European Commission) on ”Financial Markets in the Transition in Central and East European Countries”.

10 Editorial Work

- Since 2020- Advisory Board, *Metroeconomica*
- Since 2011- Associate Editor, *Journal of Economic Interaction and Coordination*
- 2015-2016 Associate Editor, *Italian Economic Journal*
- 1998-2010: Associate Editor, *Journal of Economic Behaviour and Organization*

11 Referee

Advances in Complex Systems, *Economia Politica*, *Economic Modelling*, *Economic Notes*, *Empirical Economics*, *European Economic Review*, *Journal of Economic Behaviour and Organization*, *Journal of Economic Dynamics and Control*, *Journal of Economic Interaction and Coordination*, *Journal of Evolutionary Economics*, *Journal of Financial Stability*, *Journal of Macroeconomics*, *Journal of Political Economy*, *Journal of Post Keynesian Economics*, *Labour*, *Macroeconomic Dynamics*, *Metroeconomica*, *Oeconomica*, *Physika A*, *Review of Evolutionary Political Economy*, *Review of Radical Political Economy*, *Revue d'Economie Politique*, *Rivista Italiana di Economia*, *Rivista di Politica Economica*, *Rivista Internazionale di Scienze Sociali*, *Scottish Journal of Political Economy*.

12 Conferences and Seminars

Invited talks:

- in Italy:
 - Società Italiana degli Economisti (SIE) (1989, 1990, 1993, 2002, 2006),
 - Accademia dei Lincei
 - Servizio Studi, Bank of Italy,
 - Universities of Ancona, Bergamo, Catania, Firenze, Macerata, Milano – Cattolica, Milano – Statale, Padova, Pisa – Scuola Superiore Sant’Anna, Roma – La Sapienza, Roma –Torvergata, Siena, Teramo, Trento, Trieste, Urbino.
 - Fondazione Einaudi in Turin.
 - IDSE (Istituto per lo studio della Dinamica dei Sistemi Economici), CNR in Milan;
- around the world:
 - Dutch Central Bank (DNB) (2013)

- Slovak Central Bank (2013)
 - Austrian Central Bank (ONB) (2011)
 - European Central Bank (2010)
 - Santa Fe Institute (2004)
 - Chuo University (Tokio) (2000)
 - University of Bamberg (2019)
 - University of Frankfurt (2013)
 - University of Leeds (2013)
 - University of Bordeaux (2013)
 - University of Lille (2013, 2014)
 - University of Nice (1998, 2000,2010,2013, 2015, 2018)
 - University of Hamburg (2011, 2016)
 - University of Warsaw (1998)
 - University of California in Santa Cruz (1997)
 - New School for Social Research in New York (1995)
 - Jerome Levy Economics Institute (New York) (1991, 1995)
 - University of Southern California in Los Angeles (1991, 2002)
 - Washington University in Saint Louis (1990)
- Contributed talk at
 - CESIFO Macroeconomic workshop (2014)
 - International Economic Association (2011)
 - Money, Macro and Finance (MMF) Research Group (City University, London, 1994; University of York 2006)
 - Confederation of European Economic Associations (CEEAA) (Gerzensee, 1994)
 - Workshop on Economics with Heterogeneous Interacting Agents (WEHIA) (University of Ancona 1996-98; University of Genoa, 1999; University of Marseille, 2000; Kyoto University, 2002; Abdus Salam Center, Istituto Nazionale di Fisica della Materia, Trieste, 2003; University of Kiel, 2004, Essex University, 2005; University of Bologna, 2006, University of Eastern Piedmont 2010, Università Politecnica delle Marche 2011, University of Paris2 2012, University of Nice, 2015).
 - Center for Non linear Dynamics in Economics and Finance (CENDEF), University of Amsterdam (2000, 2009, 2013).

- Japan Association for Evolutionary Economics (JAFEE) (University of Tokio, 2000),
- CEFI University of Aix-Marseille (2000),
- Global Finance Research (Dublin, 2005),
- Society for Non Linear Dynamics and Econometrics (SNDE), London 2005,
- Computing in Economics and Finance (CEF): Limassol, 2006; University of Montreal, 2007; Paris Sorbonne, 2008; University of Technology, Sydney 2009; City University of London, 2010; Vancouver, 2013; Online-conference, 2021.
- French Economic Society (2017)

13 Teaching

- Undergraduate courses: Macroeconomia (for Italian students, "laurea triennale"), Catholic University.
- Master courses: Monetary Economics, Political Economy of European Integration, Catholic University.
- PhD courses:
 - Current: Macroeconomic models with Financial Frictions, Ph. D. in Economics and Finance (joint doctoral program Catholic University and University of Milano Bicocca)
 - Past: DSGE models with Financial Frictions, Ph. D. in Economics, Università Politecnica delle Marche (Ancona); Macroeconomic Dynamics (Scuola Superiore Sant'Anna, Pisa); Advanced Macroeconomics, Ph. D. in Economics and Finance (joint doctoral program Catholic University and University of Milano Bicocca); Agent Based Models, Ph. D. in Economics (University of Hamburg, University of Nice, University of Lille).
- Thesis supervision for Ph. D. students at the following doctoral programs: Ph.D. in Economics and Finance, joint doctoral program Catholic University and University of Milano Bicocca, LASER, University of Ancona, University of Pavia, Scuola Superiore Sant'Anna, Pisa, University of Rome (La Sapienza).
- External examiner of Ph. D. theses for the universities of Amsterdam, Ancona, Bari, City University (London), Hamburg, Lecce, Leuven, Milano-Bicocca, Paris X (Nanterre), Pavia, Perugia, Scuola Superiore Sant'Anna (Pisa), Rome (La Sapienza), Turin.

14 Thesis supervision of PhD students

Riccarda Longaretti (currently Associate Professor, University of Milano-Bicocca), Anna Florio (Professor, Politecnico, Milan), Lucio Landi (Ufficio Parlamentare di Bilancio), Leonardo Gambacorta (Bank of International Settlements), Emiliano Santoro (Professor, University of Copenhagen), Tiziana Assenza (Associate Professor, Università Cattolica and Toulouse School of Economics), Andrea Lanteri (Assistant Professor, Duke University), Roberta Cardani (Post Doc, University of Milano-Bicocca), Ambrogio Cesa-Bianchi (Bank of England), Federico Lubello (Central Bank of Luxemburg), Alberto Cardaci (Post Doc Goethe University in Frankfurt), Davide Bazzana (Post Doc University of Brescia), Massimo Ferrari (Economist at the International Policy Analysis Division of ECB).

15 Publications

15.1 Articles in refereed journals

- 2020 – “Rising to the Challenge: Bayesian Estimation and Forecasting Techniques for Macroeconomic Agent-Based Models” (with J. Grazzini), *Journal of Economic Behaviour and Organization*, Volume 178, pp. 875-902
- 2019 – “The financial transmission of shocks in a simple hybrid macroeconomic agent based model” (with T. Assenza), *Journal of Evolutionary Economics*, Volume 29, pp. 265–297
- 2018 – “Does Fiscal Policy Matter? Tax, Transfer and Spend in a Macro ABM with Capital and Credit” (with T. Assenza, P. Colzani, J. Grazzini), *Industrial and Corporate Change*, Volume 27, Issue 6, 1 December 2018, pp. 1069–1090.
- 2018 – “Policy experiments in an agent-based model with credit networks ” (with T. Assenza, A. Cardaci, J. Grazzini), *Economics*, Vol. 12, 2018-47, July 26, 2018
- 2018 – “Macrofinancial imbalances in historical perspective: A global crisis index” (with Marco Gallegati), *Journal of Economic Dynamics and Control*, Volume 91, June 2018, pp. 190-205
- 2017 – “The Crisis of Economic Theory and the Complexity View: A Note”, *Italian Economic Journal*, Volume 3, pp. 419–422
- 2017 – “Bank Networks: Contagion, systemic risk and prudential policy ” (with I. Aldasoro and E. Faia), *Journal of Economic Behaviour and Organization*, Volume 142, pp. 164-188.

- 2015 – “Monetary Policy Experiments in an Agent Based Model with Financial Frictions”, *Journal of Economic Interaction and Coordination*, Volume 10, Issue 2, pp 265-286
- 2015 – “Emergent Dynamics of a Macroeconomic Agent Based Model with Capital and Credit”, (with Jakob Grazzini and Tiziana Assenza), *Journal of Economic Dynamics and Control*, Volume 50, Pages 5-28
- 2013 – “E Pluribus Unum: Macroeconomic Modelling for Multi-agent Economies”, (with Tiziana Assenza), *Journal of Economic Dynamics and Control*, vol. 37, pp. 1659–1682
- 2012 – “Reconstructing Aggregate Dynamics in Heterogeneous Agents Models: A Markovian Approach” (with Corrado Di Guilmi, Mauro Gallegati and Simone Landini), in *Agent based Models and Economic Policy*, special issue of the *Revue Economique de l’OFCE, Debates and Policies*, edited by J.L. Gaffard and M. Napoletano, issue #124.
- 2012 – “Mobility Constraints, Productivity Trends, and Extended Crises” (with M. Gallegati, B. Greenwald, A. Russo, J. Stiglitz), *Journal of Economic Behaviour and Organization*, Volume 83, pp. 375–393.
- 2012 – “Default Cascades: When Does Risk Diversification Increase Stability?” (with S. Battiston, M. Gallegati, B. Greenwald, J. Stiglitz), *Journal of Financial Stability*, vol. 8, pp. 138-149
- 2012 – “Liaisons Dangereuses: Increasing Connectivity, Risk Sharing and Systemic Risk” (with S. Battiston, M. Gallegati, B. Greenwald, J. Stiglitz), *Journal of Economic Dynamics and Control*, vol. 36, pp. 1121–1141
- 2010 – “Complex Agent-based Macroeconomics: A Manifesto for a New Paradigm” (with E. Gaffeo, M. Gallegati), *Journal of Economic Interaction and Coordination*, vol. 5/2, pp. 111-135
- 2010 – “The Financial Accelerator in an Evolving Credit network” (with A. Russo, M. Gallegati, B. Greenwald, J. Stiglitz), *Journal of Economic Dynamics and Control*, vol. 34/6, pp. 1627-1650.
- 2009 – “Borrowing Constraints and Complex Dynamics in an OLG Framework” (with Anna Agliari, Tiziana Assenza, Emiliano Santoro) *Journal of Economic Behaviour and Organization*, vol. 72/2, pp. 656-669.
- 2009 – “Business Fluctuations and Bankruptcy Avalanches in an Evolving Network Economy” (with A. Russo, M. Gallegati, B. Greenwald, J. Stiglitz), *Journal of Economic Interaction and Coordination*, vol. 4/2, pp. 195-212

- 2008 – “Adaptive Microfoundations for Emergent Macroeconomics” (with E. Gaffeo, M. Gallegati, S. Desiderio), *Eastern Economic Journal*, vol. 34, pp. 441-463.
- 2007 – “Complex Dynamics and Empirical Evidence” (with E. Gaffeo, M. Gallegati, G. Giulioni, A. Kirman, A. Palestrini, A. Russo), *Information Sciences*, vol. 177/5, pp. 1204-1221.
- 2007 – “Financial Fragility, Industrial Dynamics and Business Fluctuations in an Agent Based Model” (with C. Diguilmi, M. Gallegati, G. Giulioni), *Macroeconomic Dynamics*, vol. 11, pp. 62-79.
- 2007 – “Credit chains and bankruptcy propagation in production networks” (with S. Battiston, M. Gallegati, B. Greenwald, J. Stiglitz), *Journal of Economic Dynamics and Control*, vol. 31/6, pp. 2061-2084.
- 2006 – “The Complex Dynamics of Financially Constrained Heterogeneous Firms” (with A. Agliari, M. Gallegati, S. Lenci), *Journal of Economic Behaviour and Organization*, vol. 61/4, pp. 784-803.
- 2006 – “Business Fluctuations in a credit-network economy” (with M. Gallegati, B. Greenwald, A. Russo, J. Stiglitz), *Physica A*, vol. 370, pp. 68-74.
- 2006 – “Aggregation of heterogeneous interacting agents: The variant representative agent framework” (with M. Gallegati, A. Palestrini, E. Scalas) in *Journal of Economic Interaction and Coordination*, 1, pp. 5-19.
- 2005 – “A New Approach to Business Fluctuations: heterogeneous Interacting Agents, Scaling Laws and Financial Fragility” (with C. Diguilmi, E. Gaffeo, M. Gallegati, G. Giulioni, A. Palestrini), *Journal of Economic Behaviour and Organization*, vol. 56, n.4, pp. 489-512.
- 2005 – “Scaling Laws and the Macroeconomy” (with C. Diguilmi, E. Gaffeo, M. Gallegati, G. Giulioni, A. Palestrini), *Advances in Complex Systems*.
- 2005 – “The Apprentice Wizard: Monetary Policy, Complexity and Learning” (with E. Gaffeo, M. Gallegati, A. Palestrini), *New Mathematics and Natural Computation*, 1, pp. 109-128.
- 2005 – “On the Nature and Causes of Cyclical Fluctuations in Italy, 1861-2000” (with Marco Gallegati, Mauro Gallegati), *Explorations in Economic History*, vol. 42/1, pp. 81-100.
- 2004 – “Financial Conditions, Strategic Interaction and Complex Dynamics: A Game theoretic Model of Financial Fragility”, (with G. Bischi, M. Gallegati), *Journal of Economic Behaviour and Organization*, vol. 53/2, pp. 145-171.

- 2004 – “Business Cycle Fluctuations and Firms’Size Distribution Dynamics”, (with C. Diguilmi, E. Gañeo, M. Gallegati, G.Giulioni, A. Palestrini), *Advances in Complex Systems*, vol. 7, n.2, pp. 1-18.
- 2004 – “Bankruptcy as an exit mechanism for systems with a variable number of components”, (with C. Diguilmi, E. Gañeo, M. Gallegati), *Physica A*, vol.344/1-2, pp. 8-13..
- 2003 – “Financial Fragility, Patterns of Firms’Entry and Exit and Aggregate Dynamics” (with M. Gallegati, G.Giulioni e A. Palestrini), *Journal of Economic Behaviour and Organization*, vol. 51/1, pp. 79-97.
- 2001 – “Effective Demand and Coordination Failures” (with A. Boitani), in *Journal of Post Keynesian Economics*, spring 2001, vol. 23/3, pp. 411-441.
- 2000 – “Global Dynamics in a Non-Linear Model of the Equity Ratio” (with A. Agliari, M.Gallegati e L. Gardini), in *Journal of Chaos, Solitons and Fractals*, vol. 11, pp. 961-985.
- 1998 – “Financial Fragility, Heterogeneous Agents and Aggregate Fluctuations: Evidence from a Panel of U.S. Firms” (with M.Gallegati e L. Stanca) in *Applied Financial Economics*, vol. 21, pp. 87-99.
- 1998 – “Nonlinear dynamics and European GNP data”(with M.Gallegati e D.Mignacca) in *Studies in Nonlinear Dynamics and Econometrics*, vol.3, pp. 43-59.
- 1998 – “Il processo di convergenza come vincolo alla politica economica”, in *Rivista Internazionale di Scienze Sociali*, vol. CVI, pp. 139-155.
- 1997 – “Widening Europe: Tied-Aid and Trade for the East, EMS Mark II for the West”.(with M. Lossani, P. Tirelli) *Journal of International and Comparative Economics*, vol. 5/3-4, pp. 229-248.
- 1997– “Financial Constraints, Aggregate Supply and the Monetary Transmission Mechanism”, (with M. Gallegati) *Manchester School*, vol. 65/2, pp. 101-126.
- 1997 – “At the Root of the Financial Instability Hypothesis: ‘Induced Investment and Business Cycles’ ”(with M. Gallegati),*Journal of Economic Issues*, vol. 31, n.2, pp. 527- 534.
- 1996 – “Financial Instability Hypothesis and Stabilization Policy: Hyman P. Minsky’s Contribution to Political Economy” (with M. Gallegati), *Economic Notes*, vol.25, n.3, pp.411-424.
- 1996 – “Financial Market Imperfections and Irregular Growth Cycles” (with M. Gallegati) *Scottish Journal of Political Economy.*, vol. 43/2, pp. 146-159.

- 1995 – “Financial Fragility and Economic Fluctuations: Keynesian Views (and an Addendum)” (with M. Gallegati) *Economic Notes*, vol.24, n.3, pp.513-554.
- 1995 – “Competitività, inflazione e disoccupazione: le prospettive del regime di cambio” (with M. Lossani, P. Tirelli), *Rivista Internazionale di Scienze Sociali*, Anno CIII, vol.3, pp.525-547.
- 1994 – “Dimensione d’impresa e impatto della politica monetaria: alcune riflessioni alla luce della Nuova Economia Keynesiana”, in *Rivista Internazionale di Scienze Sociali*, vol. 102, n.3, pp.413-443.
- 1993 – “Investment, Confidence, Corporate Debt and Income Fluctuations” (with M. Gallegati e L. Gardini), *Journal of Economic Behaviour and Organization* , vol. 22/2, pp.161-187.
- 1992 – “Credit, Confidence and Speculation. A Marshallian Perspective on Business Fluctuations” (with M. Gallegati), *Quaderni di storia dell’economia politica*, vol. 10, n.1, pp. 451-483.
- 1992 – “Concorrenza imperfetta, esternalità e spiegazioni delle rigidità nella Nuova Economia Keynesiana” (with A. Boitani, L. Mezzomo), *Economia Politica*, vol.9, n.2, pp.299- 361.
- 1991 – “Equilibrio di sottoccupazione e stato di fiducia in un gioco keynesiano” (with A. Boitani), *Economia Politica*, vol.8, n.1, pp. 45-71.
- 1991 – “Credito, investimenti e fluttuazioni economiche in Marco Fanno” (with M. Gallegati), *Quaderni di storia dell’economia politica*, vol. 9, n.1, pp. 123-145.
- 1990 – “Real Accumulation and Financial Instability: A Model of Profit Flows, Debt Commitments and Capital Asset Prices” (with M. Gallegati e L. Gardini), *Studi Economici*, n.41, pp. 101-126.
- 1990 – “Financial Instability, Income Distribution and the Stock Market” (with M. Gallegati), *Journal of Post Keynesian Economics*, vol. 12/3, pp. 356-374.

15.2 Articles in edited volumes

- 2018 – “Agent Based Macroeconomics” (with H. Dawid), in *Handbook of Computational Economics, Volume 4: Heterogeneous Agent Models* (edited by Cars Hommes and Blake LeBaron), Elsevier
- 2018 – “Rationality, Behavior and Expectations”, in *Agent Based Models in Economics: A Toolkit* (edited by Domenico Delli Gatti, Giorgio Fagiolo, Mauro Gallegati, Matteo Richiardi and Alberto Russo), Cambridge, Cambridge University Press

- 2015 – “Was Bernanke Right? Targeting Asset Prices May not be a Good Idea After All”, (with T. Assenza and M. Berardi) in W. Barnett and F. Jawadi (eds.), *Monetary Policy in the Context of the Financial Crisis: New Challenges and Lessons*, Emerald Group Publishing Limited
- 2015 – “The Dynamics of the labour market in an agent-based model with financing constraints” (with S. Desiderio and M. Gallegati), in Cristini, A., Fazzari, S., Greenberg, E. and Leoni R. (eds), *Cycles, Growth and the Great Recession*, London: Routledge.
- 2010 – “Financial Instability and Agents’ Heterogeneity: A Post Minskyan Research Agenda” (with T. Assenza, M. Gallegati), in D. Papadimitriou, L. Wray (eds), *The Elgar Companion to Hyman Minsky*, Northampton: Edward Elgar
- 2006 – “Technological innovation, financial fragility and complex dynamics”(with M. Gallegati, A. Russo) in N. Salvadori (ed.), *Economic Growth and Distribution: On the Nature and Causes of the Wealth of Nations*, Northampton:Edward Elgar.
- 2006 – “Banche e imprese” (with M. Gallegati, G.Giulioni) in P. Terna, R. Boero, M.Morini, M. Sonnessa (eds), *Modelli per la complessità*, Bologna, Il Mulino, pp.349-359
- 2005 – “Complex Dynamics, Financial Fragility and Stylized Facts” (with E. Gaffeo, M. Gallegati, G.Giulioni, A. Kirman, A. Palestrini), in Mathieu, P., Beaufils B., Brandouy O. (eds), *Artificial Economics: A Symposium in Agent-Based Computational Methods in Finance, Game Theory and their Applications*, Berlin: Springer-Verlag, pp. 127-135.
- 2005 – “Firms’ size distribution and growth rates as determinants of business fluctuations” (with C. Diguilmi, E. Gaffeo, M. Gallegati, G.Giulioni, A. Palestrini), in Kirman, A., Salzano, M. (eds) *Economics: Complex Windows*, Berlin: Springer-Verlag.
- 2004 – “Monetary Policy and the Distribution of Wealth in a OLG Economy with Heterogeneous Agents, Money and Bequests” (with R. Longaretti), in M. Gallegati, A. Kirman, M. Marsili (eds), *The Complex Dynamics of Economic Interaction*, Berlin: Springer-Verlag.
- 2003 – “Financial Fragility, Heterogeneous Agents’ Interaction and Aggregate Dynamics” (with G. Giulioni, M. Gallegati), in Cowan, R. e Jonard, N. (eds), *Heterogeneous Agents, Interactions and Economic Performance*, Berlin: Springer Verlag.
- 2003 – “Endogenous Startups, Financial Conditions and Capital Accumulation”(with R. Longaretti), in E. Colombo, J. Driffill, (eds), *The Role of Financial Markets in the Transition Process*, Berlin:Springer-Verlag.

- 2002 – “Sulla natura e le cause delle fluttuazioni cicliche in Italia” (with Marco Gallegati, Mauro Gallegati), in Ciocca, P., Toniolo, G. (eds), *Storia Economica d'Italia*, third volume, Gius. Laterza e figli, Roma-Bari.
- 2001 – “Heterogeneity, Aggregation and Capital Market Imperfections” (with M.Gallegati), in L. Punzo (ed.) *Cycles, Growth and Structural Change*, London: Routledge.
- 2001 – “Social Interaction and Coordination Failures in a Simple Model of Technology Adoption” (with M.Gallegati), in Aruka, Y. (ed.), *Evolutionary Controversies in Economics*, Berlin:Springer-Verlag.
- 2001 – “Industrial Dynamics with Quasi-Zero Intelligence Interacting Firms” (with R. Leombruni, M. Gallegati), in Kirman, A., Zimmermann, J. (eds) *Economics with Heterogeneous Interacting Agents*, Berlin:Springer Verlag.
- 2000 – “Agents’Heterogeneity, Aggregation and Economic Fluctuations”(with M.Gallegati, A. Palestrini), in D. Delli Gatti, M. Gallegati, A. Kirman (eds), *Interaction and Market Structure*, Berlin:Springer-Verlag , pp.133-149.
- 2000 – “Imperfect Capital Markets: A New Macroeconomic Paradigm?” (with R. Tamborini), in Backhouse, R.E., Salanti, A. (eds), *Macroeconomics and the Real World*, Oxford University Press, vol.II, pp. 169-202.
- 2000 – “Financial Instability Revisited: Aggregate Fluctuations due to Changing Financial Conditions of Heterogeneous Firms”(with M.Gallegati), in Bellofiore, R., Ferri, P. (eds.), *Financial Fragility and Investment in the Capitalist Economy. The Economic Legacy of Hyman Minsky*, Northampton: Edward Elgar, vol.II, pp.185-200.
- 1999 – “Macroeconomic Fluctuations and Heterogeneous Agents” (with G. Bischi, M. Gallegati) in M. Gallegati, A. Kirman (eds), *Beyond the Representative Agent*, Northampton: Edward Elgar, pp.215-232.
- 1999 – “Firms’Size and Monetary Policy: Some New Keynesian Reflections” in M. Gallegati, A. Kirman (eds), *Beyond the Representative Agent*, Northampton: Edward Elgar, pp. 141-161.
- 1999 – “Agents Heterogeneity and Coordination Failure: An Experiment”, (with M.Gallegati, D. Mignacca), in M. Gallegati, A. Kirman (eds), *Beyond the Representative Agent*, Northampton: Edward Elgar, pp. 163-179.
- 1999 – “Macroeconomic Fluctuations and Heterogeneous Agents” (with G. Bischi, M.Gallegati) in M. Gallegati, A. Kirman (eds), *Beyond the Representative Agent*, Northampton: Edward Elgar, pp.215-232.

- 1999 – “Agents Heterogeneity, Financial Fragility and Learning”, (with M. Gallegati, A. Palestrini), in M. Gallegati, A. Kirman (eds), *Beyond the Representative Agent*, Northampton: Edward Elgar, pp. 323-338.
- 1999 – “The New Keynesian Economics: A Survey” (with P.G. Ardeni, A. Boitani, M. Gallegati), in M. Messori (ed.) *Financial Constraints and Market Failures*, Northampton: Edward Elgar, pp.1-80.
- 1999 – “Nominal Shocks, Net Worth and Economic Activity”, (with M. Gallegati), in M. Messori (ed.) *Financial Constraints and Market Failures*, Northampton: Edward Elgar, pp. 207-236.
- 1998 – “La competitività dell’Italia” (with F. De Novellis, A. Forti, P.C.Padoan), in Boitani, A., Forti, F., Silva, F.(eds), *Competitività e Regolazione*, Nono Rapporto CER-IRS sull’industria e la politica industriale italiana, Bologna, Il Mulino, pp. 37-105
- 1996 – “La Nuova Economia Keynesiana: risultati e problemi aperti” (with P. Ardeni, A. Boitani, M. Gallegati), in Messori, M. (ed.), *La Nuova Economia Keynesiana*, Bologna, Il Mulino.
- 1996 – “Financial Institutions, Economic Policy and the Dynamic Behaviour of the Economy” (with M. Gallegati, H. Minsky), in Hemstadter, E., Perlman, M. (eds), *Behavioral Norms, Technological Progress and Economic Dynamics*, Ann Arbor, The University of Michigan Press.
- 1996 – “Endogenous Regime Switching in a Model of Accumulation, Credit and Monetary Policy” (with M. Gallegati, P. Padoan), in Barnett, W.A., Gandolfo, G., Hillinger, C. (eds), *Dynamic Disequilibrium Modeling*, Cambridge, Cambridge University Press.
- 1995 – “External Finance, Investment Expenditure and the Business Cycle” (with M. Gallegati), in W. Semmler (ed.), *Business Cycles: Theory and Empirical Methods*, Boston, Kluwer.
- 1994 – “Complex Dynamics in a Simple Macroeconomic Model with Financing Constraints” (with M. Gallegati, L. Gardini), in G. Dymski, R. Pollin (eds), *New Perspectives in Monetary Macroeconomics*, Ann-Arbor, The University of Michigan Press.
- 1994 – “Dimensione d’impresa e impatto della politica monetaria: alcune riflessioni alla luce della Nuova Economia Keynesiana”, in *Rivista Internazionale di Scienze Sociali*, vol. 102, n.3, pp.413-443.

- 1993 – “Accumulazione, credito e politica monetaria in un modello macrodinamico non lineare” (with M. Gallegati, P. Padoan), in A. Medio (ed.), *Analisi dinamica in economia: modelli non-lineari e lineari stocastici*, Bologna, Il Mulino, pp. 127-146.
- 1993 – “Le politiche di sostegno delle esportazioni: assetto istituzionale e proposte di riforma”, in AA.VV., *La trasformazione difficile. sesto rapporto CER-IRS sull’industria e la politica industriale italiana*, Bologna, Il Mulino.
- 1992 – “Imperfect Information, Corporate Finance, Debt Commitments and Business Fluctuations (with M. Gallegati), in Fazzari S., Papadimitriou D. (eds), *Financial Conditions and Macroeconomic Performance. Essays in Honor of Hyman P. Minsky*, New York, M.E. Sharpe, pp. 133-160.
- 1991 – “Informazione asimmetrica, accumulazione del debito e ciclo economico” (co-autore: M. Gallegati), in J. Kregel (ed.), *Nuove interpretazioni dell’analisi monetaria di Keynes*, Bologna, Il Mulino, pp. 119-143.
- 1989 – “Accumulazione di capitale e ristrutturazione industriale: una rivisitazione critica dell’esperienza italiana negli anni Settanta” (with Pia Saraceno), in F. Silva, G. Barbetta (eds), *Trasformazioni strutturali dell’industria italiana*, Bologna, Il Mulino, pp. 61-102.
- 1986 – “Le politiche di sostegno delle esportazioni”, in F. Onida (ed.), *Vincolo estero, struttura industriale e credito all’esportazione*, Bologna, Il Mulino, pp. 135-188.

15.3 Volumes

- 2011 – *Macroeconomics from the Bottom-Up* (with E. Gaffeo, M. Gallegati, S. Desiderio, P. Cirillo), Berlin:Springer Verlag.
- 2008 – *Emergent Macroeconomics* (with E. Gaffeo, M. Gallegati, G.Giulioni, A. Palestrini), Berlin: Springer Verlag.
- 1994 - *Moneta, accumulazione e ciclo. Keynes negli anni dell’alta teoria*, Studi NIS/Economia, Roma, Nuova Italia Scientifica.

15.4 Editorship

- 2018 – *Agent Based Models in Economics: A Toolkit* (edited by Domenico Delli Gatti, Giorgio Fagiolo, Mauro Gallegati, Matteo Richiardi and Alberto Russo), Cambridge, Cambridge University Press.
- 2000 – *Interaction and Market Structure* (edited by D. Delli Gatti, M. Gallegati, A. Kirman), Berlin: Springer-Verlag

15.5 Book review

- 2013 – Review of the book "Lectures on Behavioral Macroeconomics", *Journal of Economic Literature*

15.6 Working Papers

- 2021 – "Breaking Bad: Supply Chain Disruptions in a Streamlined Agent Based Model" (with E. Grugni), *CESIFO Working paper #9029, April 2021*.
- 2020 – "ABC: An Agent Based Exploration of the Macroeconomic Effects of Covid-19" (with S. Reissl), *CESIFO Working paper #8763, December 2020*.
- 2019 – "Perceived Wealth, Cognitive Sophistication and Behavioral Inattention" (with T. Assenza and A. Cardaci), *CESIFO Working paper #7992, December 2019*.
- 2019 – "Rising to the Challenge: Bayesian Estimation and Forecasting Techniques for Macroeconomic Agent-Based Models" (with J. Grazzini), *CESIFO Working paper #7894, October 2019*.
- 2018 – "Agent Based Macroeconomics" (with H. Dawid), Universitat Bielefeld, Working papers in Economics and Management, #2-2018
- 2016 – "Heterogeneous Firms and International Trade: The Role of Productivity and Financial Fragility" (with T. Assenza, J. Grazzini and G. Ricchiuti), *CESIFO Working paper #5959, june 2016*.
- 2015 – "Bank Networks: Contagion, Systemic Risk and Prudential Policy" (with I. Aldasoro and E. Faia), *CESIFO Working paper #5182, january 2015*.
- 2014 – "Emergent Dynamics of a Macroeconomic Agent Based Model with Capital and Credit, April 2014" (with T. Assenza, J. Grazzini), *CESIFO Working paper #4765, april 2014*
- 2011 – "Was Bernanke Right? Targeting Asset Prices may not be a Good Idea After All" (with T. Assenza, M. Berardi), *CESIFO Working paper #3641, november 2011*.
- 2009 – "Liaisons Dangereuses: Increasing Connectivity, Risk Sharing and Systemic Risk" (with S. Battiston, M. Gallegati, B. Greenwald, J. Stiglitz), *NBER WP#15611*
- 2009 – "Asset Prices and Monetary Policy: A New View of the Cost Channel" (with T. Assenza, M. Berardi), *CeNDEF Working paper 09-17* University of Amsterdam. Available online at <http://www1.fee.uva.nl/cendef/publications/>.

- 2008 – “Financially Constrained Fluctuations in an Evolving Network Economy” (with A. Russo, M. Gallegati, B. Greenwald, J. Stiglitz), *NBER WP#14112*
- 2007 – “Net worth, exchange rates and monetary policy: the effects of a devaluation in a financially fragile environment” (with M. Gallegati, B. Greenwald, J. Stiglitz), *NBER WP#13244*
- 2007 – “Heterogeneity and Aggregation in a Financial Accelerator Model” (with Tiziana Assenza, Mauro Gallegati) *CeNDEF Working Paper Series no. 07-13*. Available online at <http://www1.fee.uva.nl/cendef/publications/>.
- 2000 – “Financial Conditions and Supply Decisions When Firms are Risk Averse” (with M. Gallegati, G. Weinrich), *Quaderno dell’ Istituto di Teoria Economica e Metodi Quantitativi dell’ Università Cattolica, n. 25*.
- 1988 – “Minsky Crisis Revisited. A Model of Capital Asset Pricing and Income Distribution” (with M. Gallegati), *Temi di ricerca dell’Ente Einaudi*, Roma.