

Mario Pianta

Curriculum Vitae

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Personal Information

Name	Prof. Mario Pianta
Permanent Address	Viale delle Provincie 184, 00162 Roma, Italy
Mail and mobile phone	mario.pianta@sns.it (+39) 333 3396528
Website	http://works.bepress.com/mario_pianta

Present position

Full Professor (Professore Ordinario) of Economic Policy at Scuola Normale Superiore, Dipartimento di scienze politico-sociali, Firenze, with the Carlo Azeglio Ciampi Chair on ‘The political economy and historical dynamics of modern capitalism’, on temporary transfer (‘in convenzione’) for the years 2018-2021 from Università di Urbino Carlo Bo, Dipartimento di Economia, Società, Politica. Deputy Director (vice-preside) of the Dipartimento di scienze politico-sociali. Member of the Advisory Board of the Edizioni della Normale.

Member of of the Committee on Innovation and Development, Accademia Nazionale dei Lincei (Italy’s Academy of Sciences).

Managing Editor of the journal *Structural Change and Economic Dynamics* (Elsevier).

Summary of research experience

I am Full Professor of Economic Policy at Scuola Normale Superiore, Dipartimento di scienze politico-sociali, Firenze. My research themes include international political economy, the causes and consequences of inequality, the relationships between innovation, growth and employment, economic and industrial policies in Europe.

In my research career I have had the opportunity to work in Italy and abroad in different highly qualified research contexts. I have worked in international institutions as a Ph.D. student at the London School of Economics (LSE); as a research fellow at Columbia University, New York; as a visiting scholar at the University of Cambridge, at the European University Institute, at the LSE, at the Université Paris 1, Panthéon Sorbonne. I have worked in several Italian institutions, including the National Research Council in Rome, the Università di Urbino Carlo Bo, Università Roma Tre.

I have been a member of the *Centro Linceo Interdisciplinare ‘Beniamino Segre’* of the Accademia Nazionale dei Lincei where in 2011-2014 I have carried out a three year interdisciplinary research project on ‘Evolution and economic change’. At the *Centro*

Linceo I have organised international scientific conferences, edited publications and I continue to participate to the activities of Accademia dei Lincei as a member of the Committee on Innovation and Development.

I have carried out research in cooperation with the European Commission, the OECD, ILO, UNRISD, UNIDO, MIUR and the Bank of Italy. I have often worked in interdisciplinary research contexts. I have tutored several Ph.D. students. I have a significant international experience on ex ante and ex post evaluation of research – including EU Framework Programmes; I have been a member of the Evaluation Committee for the Habilitation of Professors (Abilitazione Scientifica Nazionale, 2012-2013) and of more than fifteen Selection Committees (Commissioni di concorso) for university positions. I am perfectly fluent in English and French; Italian is my mother tongue.

Previous positions

Full Professor of Economic Policy at the Università di Urbino Carlo Bo since 2009; Professore Straordinario since 2005; Associate Professor since 2000.

Full Professor of Economic Policy at Università Roma Tre, Dipartimento di Giurisprudenza, on temporary transfer for 2017-2018 from Università di Urbino Carlo Bo.

Member of the *Centro Linceo Interdisciplinare 'Beniamino Segre'*, Accademia Nazionale dei Lincei, 2011-2014. I was one of the five professors from all scientific disciplines accepted in 2011 as Member for a three-year period, with a research project on 'Evolution and economic change'.

Member of the Board of Management of the International Joseph A. Schumpeter Society, 2012-2014.

Fernand Braudel Fellow at the European University Institute, Dept. of Political and Social Sciences, in Fiesole (Florence) (November 2006-April 2007).

Visiting professor, Centre for International Studies, London School of Economics (May-July 2007).

Visiting professor, CRPS, Université Paris 1, Panthéon Sorbonne (September-October 2007).

Researcher at Italy's National Research Council (ISRDS-CNR and ISPRI-CNR), Rome (1989-2000).

Italian government delegate at the OECD Science and Technology Policy Directorate (1994-2000).

Visiting Scholar at the Judge Institute for Management Studies, University of Cambridge, (September 1993).

Research fellow at Columbia University, New York, Corliss Lamont Program, 1986-87.

Teaching experience

Undergraduate teaching

From 1997 to 2017 (except in my sabbatical year) teacher of the undergraduate course of Economic Policy at the University of Urbino (8 credits).

From 2002 to 2017 (except in my sabbatical year and in my years at the Centro Linceo Interdisciplinare) teacher of the Master-level course of Economics of Innovation at the University of Urbino (8 credits). Teacher of courses on Economics of Globalisation and Economics of nonprofit organisations at the University of Urbino.

Contract Professor at the University of Rome "La Sapienza", Faculty of Economics for the courses: European Economic Policy (2011-2012, in English); Italian and European Economy (2007-2008), Global Economy and International Economic Policy (2005-2006).

Postgraduate teaching

Since 2018-2019 I teach the course on International Political Economy at Scuola Normale Superiore, Dipartimento di scienze politico-sociali, Firenze.

At the University of Urbino I have played a key role in designing a new Ph.D. programme on Global Studies that has started in 2017, under the direction of Prof. Antonello Zanfei. The programme – highly international and interdisciplinary - includes studies on innovation and technology, economic growth, international political economy, institutions and policy. In the programme I teach courses on International Economic Policy and European Economic Policy.

I have been the Supervisor – either internal or external - of over twelve Ph.D. students at the University of Urbino, Sapienza University of Rome, Università Politecnica delle Marche, with dissertations on innovation, growth, employment, offshoring, sustainable wellbeing. I have been a member of juries for several Ph.D. candidates at the European University Institute; Université de Versailles Saint-Quentin-en-Yvelines; Sapienza University of Rome; Università di Firenze.

Since 2003, I have been the organiser and teacher of the annual week-long Ph.D. Advanced Course on ‘*Innovation, growth and international production*’ organised by the University of Urbino, Sapienza University of Rome, Scuola Normale Superiore, Università Roma Tre and Polytechnic University of the Marche, attracting Ph.D. students from several universities. Since 2014 the Course is taught in English.

I have been founder and Director (2002-2006) of the postgraduate Master in Nonprofit Organisations at the University of Urbino.

Education

Ph.D. from the London School of Economics, Dept. of Geography, 1984. Ph.D. Thesis on *State investments and urban restructuring: the case of Turin, 1960-1978*.

Laurea (cum laude), Facoltà di Economia e Commercio, Università di Torino, 1979.

Evaluation activities

Member of the Evaluation Committee of the Italian Ministry of Universities and Research for the Habilitation of Professors in the field of Economic Policy (Abilitazione Scientifica Nazionale, settore 13A2) for 2012 and 2013.

Member of Selection Committees (Commissioni di concorso) in more than fifteen public competitions for positions of Full Professor, Associate Professor or Researcher at several Universities.

Evaluator for the European Commission of research projects for several Framework Programmes (1996, 1997, 2011, 2012); for the EC programme REGPOT; for the final assessment of the Network of Excellence of FP6 “Reconciliation of Work and Welfare in Europe” (RECWOWE) (2012).

Member of the Horizontal Panel preparing the Report to the European Commission on “Impacts of EU Framework Programmes (2000-2010) and Prospects for Research and Innovation In Food, Agriculture, Fisheries and Biotechnologies” (2011); Member of a Working Group for the Impact Assessment of the Bioeconomy for Europe (2011).

Evaluator of research projects and activities for the Social Sciences and Humanities Research Council of Canada; for the Czech-Norwegian Research Programme of the Czech Ministry of Education and the Research Council of Norway; for Università Ca’ Foscari di Venezia; for Università di Siena; for the Valutazione di Qualità della Ricerca of the Italian Ministry of University.

Recent research projects

Contractor for UNIDO for a project on ‘The challenge of digitalisation for firms in emerging countries’, 2018-2019.

Contractor for the European Commission-JRC for a project on ‘The migration of Italian researchers’, 2018-2019.

European Commission Horizon 2020 Programme ISIGrowth project, “Innovative, sustainable, inclusive growth”, 2015-2018, coordinated by Scuola Superiore Sant’Anna, Pisa.

Contractor for the European Commission-JRC Research and Innovation programme (RIO), co-author of the “Research and Innovation country reports: Italy” for 2013, 2014, 2015, 2016, 2017, 2018.

Coordinator of the European Commission JRC-IPTS Seville project “Gathering quantitative evidence of the impact of corporate R&D and innovation on employment”, 2010-2011.

European Commission DG Enterprise, InnoMetrics project on innovation, coordinated by MERIT (Maastricht Economic Research Institute), report on "Innovation performances in Europe: a long term perspective", 2008-2009.

Coordinator of the research project on “Employment in social services” for the Ministry of Labour and Social Policies and for the Marche Regional Government, 2008-2010.

European Commission Framework Programme INEQ project, “Inequality: mechanisms, effects, policies”, 2005-2008, coordinated by the University of Rome La Sapienza.

Coordinator of the European Commission JRC-IPTS Seville project “The impact of R&D and innovation on economic performance and employment: a quantitative analysis based on innovation survey data”, 2007-2008.

Italy's MIUR FIRB project "Ricerca ed imprenditorialità nella società della conoscenza", 2005-2008, coordinated by Università Bocconi.

European Commission FP6 DEMOS project, "Democracy in Europe and the mobilisation of society", 2004-2008, coordinated by Prof. Donatella della Porta, European University Institute.

Bank of Italy research project on "Trade and innovation in Italy's postwar industrialisation", 2003-2005.

Organisation of international conferences

Co-organiser and speaker at the conference organised at Scuola Normale Superiore, Florence, by the Dipartimento di scienze politico-sociali and the Istituto di Studi Avanzati Carlo Azeglio Ciampi on ‘The political consequences of inequality. Inequality, representation, participation’, 25-26 October 2018.

Co-organiser at the conference organised at Scuola Normale Superiore, Florence, by the Dipartimento di scienze politico-sociali and the Istituto di Studi Avanzati Carlo Azeglio Ciampi on ‘The political consequences of inequality. Inequalities, territorial politics, nationalism’, 22-23 November 2018.

Co-organiser and speaker at the conference ‘Research and innovation in Italy and Europe’, Accademia Nazionale dei Lincei, 7 February 2018.

Co-organiser of the ISIGrowth conference ‘Europe beyond austerity’, Policy roundtable and civil society sessions, Brussels, 1-2 June 2016.

Coordinator of the Scientific Committee, organiser and speaker at the conference “Evolution and economic change” of the Accademia Nazionale dei Lincei, Centro Linceo Interdisciplinare ‘Beniamino Segre’, Rome, 10-11 November 2014.

Organiser and speaker at the Workshop ‘Explaining economic change’, Sapienza Università di Roma, Faculty of Economics, Rome, 12 November 2014.

Organiser and speaker at the Roundtables on Industrial Policy, Advanced course ‘Innovation, Growth and International Production’, Sapienza Università di Roma, May 2014, 2015, 2016.

Organiser and speaker at the Roundtable ‘Evolution and economic change’ at the Accademia Nazionale dei Lincei, Centro Linceo Interdisciplinare ‘Beniamino Segre’, Rome, 14 May 2012.

Organiser of the conference by Paul A. David on ‘Open Science Institutions: Why did they arise and how can they survive?’ at the Accademia Nazionale dei Lincei, Centro Linceo Interdisciplinare ‘Beniamino Segre’, Rome, 23 April 2012.

Organiser and speaker at the international conference by Università di Roma La Sapienza, ‘After the crisis’, Rome, 25 June 2010.

Organizer and speaker at the international conference by CRISS and Università di Roma La Sapienza ‘Inequalities in the West and in the World: Evidence, mechanisms and policies’, Rome, 19-20 September 2008.

Organizer and speaker at the international conference by Università di Urbino, Università di Roma La Sapienza and JRC-IPTS Seville 'The impact of innovation on growth and employment', Rome, 23 June 2008.

Recent invited lectures, 2016-2019

‘Technology, wages and profits’, Goldsmiths University of London, 14 February 2019.

‘The policy space for a novel industrial policy in Europe’ School of Oriental and African Studies, University of London, 13 February 2019.

Europa divisa. Il dibattito sull’UE tra economia, storia, ideologia. Forum degli allievi della Normale, SNS, Pisa, 31 gennaio 2019.

‘Industries, structures, evolution’, Workshop in memory of Luigi Orsenigo, Università Bocconi, Milano, 5 December 2018.

‘Technology unemployment, skills and wages’. The socio-economic impact of technological change, INAPP, Rome, 29-30 November 2018.

Ricerca, innovazione, sviluppo economico’, C.Met05 research meeting, Bologna, Il Mulino, 26 November 2019.

‘Structural change, evolution and virtuous circles of growth’, Società italiana degli economisti, Conferenza annuale, Bologna, 26-27 October 2018.

‘The Economic State of the Union. Four drivers of divergence in Europe’. Annual conference of the EuroMemo Group, University of Helsinki, 27-29 September 2018.

‘The engines of structural change in Europe’ EAEPE summer school, Università Roma Tre, 2-6 July 2018.

‘La ricerca scientifica come motore del benessere’, Gruppo 2003 conference, La ricerca scientifica: un valore per il paese, CNR, Roma, 10 May 2018.

‘Waves of capitalism: Techno-economic paradigms, cycles of accumulation and crises’, Johns Hopkins University, The Arrighi Center for Global Studies, Baltimore, 26 March 2018.

‘Industrial and innovation policies’, workshop Crisis in the European Monetary Union. Causes, policies and possible options, Sapienza Università di Roma, 30 January 2018.

‘Technology and employment’. Keynote speech at the 59th Annual Conference of the Indian Society of Labour Economics (ISLE), 16-18 December 2017, Gulati Institute of Finance and Taxation (GIFT), Thiruvananthapuram, Kerala, India.

Structures and transformations. An interdisciplinary matrix for political economy. Centro Linceo Interdisciplinare, Roma, 26-27 October 2017.

‘Ricerca e innovazione in Italia’, Convegno ‘Strutture produttive: tecnologia ed economia’ Fondazione Edison-Accademia dei Lincei, Roma, 19 October 2017.

Aspen Institute Italia, L’industria al centro. Tra digital transformation e nuovi scenari geo-economici, Venice, Isola di San Clemente, 13-15 October 2017.

‘Peripheralisation, global structure, local actors’ session coordinator at the conference ‘Capitalist development in hostile environments’, Università della Calabria, 6-9 June 2017.

‘Industrial policy in Europe’, Rosa Luxemburg Stiftung seminar on ‘Progressive Industriepolitik in Europa’, Berlin, 6 April 2017.

ISTAT, ‘Presentazione Rapporto BES 2016 e Indicatori SDGs’, Roundtable: La rilevanza degli indicatori di benessere, Rome, 14 December 2016.

Accademia Nazionale dei Lincei, Fondazione Edison, Annual conference ‘Sviluppo economico, tecnologia, industria’, Rome, 27 October 2016.

University of Basel, EuropaInstitut, Summer School on ‘Shaping Europe. Legal, Economic and Political Factors’, one-day course on ‘European economic integration and disintegration’, 13 October 2016.

Intereconomics conference-German Ministry of the Economy, ‘Why Europe needs a public investment plan’, Berlin, 10 October 2016.

WIIW, Vienna Institute for International Economic Studies, ‘The space for industrial policy in Europe’, 22 September 2016.

Scuola Normale Superiore, course for candidates, ‘Disuguaglianze’, San Miniato, 4 July 2016

Scuola Normale Superiore ‘Crisi, Europa, lavoro’ seminar on the book ‘Perché i tempi stanno cambiando’ by Ignazio Visco, governor of the Bank of Italy, Palazzo Strozzi, Florence, 6 May 2016.

Hertie School of Governance, Berlin, ‘Explaining Inequality’, 29 April 2016.

Fundación Ramón Areces, Madrid, conference on ‘Innovation and competitiveness in mature sectors’, 7 April 2016.

Journal and referee activities

Managing Editor of the journal *Structural Change and Economic Dynamics* (Elsevier) since November 2018.

Member of the Advisory Board of *Economia e Politica Industriale/Journal of Industrial and Business Economics*.

Referee for the journals *Business and Politics*, *Cambridge Journal of Economics*, *Comparative Economic Studies*, *Eastern European Economics*, *Economia e Politica Industriale/Journal of Industrial and Business Economics*, *Economia e Lavoro*, *Economia Politica/Journal of Analytical and Institutional Economics*, *Economic Change and Restructuring*, *Economics of Innovation and New Technology*, *Empirica*, *Global Policy Journal*, *Graduate Journal of Social Science*, *Industrial and Corporate Change*, *International Review of Applied Economics*, *Journal of Evolutionary Economics*, *Journal of Economic Surveys*, *The Journal of Global Ethics*, *Journal of Income Distribution*, *Law and Society Review*, *Piccola Impresa/Small Business*, *PSL/BNL Quarterly Review*, *Structural Change and Economic Dynamics*, *Regional Studies*, *Research Policy*, *Rivista Internazionale di Scienze Sociali*, *Rivista di Politica Economica*, *Social Movements Studies*, *Small Business Economics Journal*, *Socio-Economic Review*, *Transnational Corporations*, *Voluntas*, for UNRISD and for the publishers Oxford University Press, Routledge and Zed Books.

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Main Publications

Forthcoming publications

(editor) *Economic change and evolution*, Book of Proceedings of the conference of the Centro Linceo Interdisciplinare “Beniamino Segre”, Accademia dei Lincei, Rome, 2017 (in preparation). Contributions by C. Antonelli, M. Buiatti, U. Cantner, G. Dosi, M. Franzini, J. Galbraith, G. Gandolfo, M. Landesmann, L. Marengo, R. Nelson, T. Orlandi, L. Orsenigo, L. Pasinetti, M. Primicerio, M. Pianta, A. Quadrio Curzio, A. Roncaglia, R. Scazzieri, S. Winter, A. Zanfei, 2018.

(guest editor with R. Scazzieri) special issue of the journal *Structural Change and Economic Dynamics* on “Economic change: structure and evolution” to be published in 2018 with articles by F. Bogliacino and C. Codagnone; U. Cantner and S. Vannuccini; G. Dosi and M. Virgillito; M. Landesmann; M. Pianta; R. Scazzieri; A. Bramucci et al., H. Shin and K. Lee, L. Pasinetti.

‘Virtuous circles’ as models of structural and evolutionary change, *Structural Change and Economic Dynamics*, special issue on “Economic change: structure and evolution”, 2018.

Journal Articles

Technology and employment. Twelve stylized facts for the digital age. *Indian Journal of Labour Economics*, 2018, DOI: 10.1007/s41027-018-0124-5.

(with V. Cirillo and L. Nascia), Technology and Occupations in the Great Recession, *Sustainability*, 10, 463, doi:10.3390/su10020463.

Innovation and economic change, *special issue of Economics of Innovation and New Technologies* edited by Mario Pianta, 2016, DOI: 10.1080/10438599.2016.1257447

(with D. Guarascio) The gains from technology: new products, exports and profits. ‘Innovation and economic change’, *special issue of Economics of Innovation and New Technologies* edited by Mario Pianta, 2016, DOI: 10.1080/10438599.2016.1257446

(with F. Bogliacino, M. Lucchese, L. Nascia) Modelling the virtuous circle of innovation. A test on Italian firms, *Industrial and Corporate Change*, 2016, doi: 10.1093/icc/dtw045

Why Europe needs a public investment plan, *Intereconomics, Review of European Economic Policy*, 51, 6, 2016: 312-317.

(with F. Bogliacino) The Pavitt Taxonomy, Revisited. Patterns of innovation in manufacturing and services. *Economia Politica, Journal of Analytical and Institutional Economics*, 33, 2, 2016: 153-180.

(with A. Zanfei) Perspectives on industrial policies in Italy and in Europe: a forum, *Economia e Politica Industriale - Journal of Industrial and Business Economics*, 43, 3, 2016: 231-232.

(with M. Lucchese and L. Nascia) Industrial policy and technology in Italy. *Economia e Politica Industriale - Journal of Industrial and Business Economics*, 43, 3, 2016: 233-260.

(with M. Franzini) The engines of inequality. *Intereconomics, Review of European Economic Policy*, 51, 2, 2016: 49-55.

(with D. Guarascio and F. Bogliacino) Export, R&D and New Products. A Model and a Test on European Industries, *Journal of Evolutionary Economics*, 26, 4, 2016, 869–905.

(with D. Guarascio, M. Lucchese and F. Bogliacino) Business cycles, technology and exports, *Economia Politica, Journal of Analytical and Institutional Economics*, 32, 2, 2015: 167-200.

What Is to Be Produced? The Case for Industrial Policy, *Intereconomics, Review of European Economic Policy*, 50, 3, May-June 2015: 140-146.

Slowing trade: global activism against trade liberalisation. *Global Policy*, 5, 2, 2014: 214-221.

An industrial policy for Europe, *Seoul Journal of Economics*, 27, 3, 2014: 277-306.

(with F. Bogliacino and M. Lucchese) Job Creation in Business Services: Innovation, Demand, Polarisation, *Structural Change and Economic Dynamics* 25, 2013: 95-109.

(with F. Bogliacino) Profits, R&D and innovation. A model and a test, *Industrial and Corporate Change*, 22 (3) 2013: 649-678.

Democracy lost: the financial crisis in Europe and the role of civil society, *Journal of Civil Society*, 9, 2, 2013.

(with M. Lucchese). Innovation and employment in economic cycles, *Comparative Economic Studies*, 2012, 54: 341–359.

(with F. Bogliacino, G. Perani, S. Supino) Innovation and Development. The Evidence from Innovation Surveys, *Latin American Business Review* 13, 2011: 1-44.

(with F. Bogliacino) Engines of growth. Innovation and productivity in industry groups. *Structural Change and Economic Dynamics*, 22, 1, 2011: 41–53

(with F. Bogliacino) Innovation and employment: a reinvestigation using revised Pavitt classes, *Research Policy*, 2010, 39: 799-809.

(with L. Nascia) Forces of inequality? The impact of technology and globalisation. *Intereconomics*, 2009, 44, 6: 332-336.

(with V. Mastrostefano) Technology and jobs. *Economics of Innovation and New Technologies*, 2009, 18, 7-8: 729-742.

L'altraeconomia: tra mercato e società civile. "Sociologia del lavoro" numero monografico su Quale economia per quale società, 2009, 113:49-66.

(with M. Franzini), Guest Editors' Introduction, *International Review of Applied Economics*, special issue on "Inequality: mechanisms and effects", 2009, 3: 233-238.

(with E. Croci Angelini e F. Farina) Innovation and wage polarisation in Europe, *International Review of Applied Economics*, 2009, 3: 309-326.

(with A. Vaona) Innovation after Lisbon: new ideas for innovation policies in Europe. *Economia e Politica Industriale*, 2008, 35, 4: 199-203.

(with F. Crespi) New processes and new products in Europe and Italy, *Rivista di Politica Economica*, 2008, 3-4: 119-148.

(with M. Tancioni) Innovations, profits and wages, *Journal of Post Keynesian Economics*, 2008, 31, 3: 103-125.

(with F. Crespi) Diversity in innovation and productivity in Europe, *Journal of Evolutionary Economics*, 2008, 18:529-545.

(with F. Crespi) Demand and Innovation in Productivity Growth. *International Review of Applied Economics*, 2008, 22 (6):655-672.

(with A. Vaona) Firm size and innovation in European manufacturing, *Small Business Economics*, 2008, 30:283-299.

(with A. Vaona) Innovation and productivity in European industries, *Economics of Innovation and New Technologies*, 16 (7) 2007, 485-99.

(with F. Crespi) Demand and Innovation in European Industries, *Economia Politica - Journal of Analytical and Institutional Economics*, 2007, 24 (1): 79-111.

The impact of innovation on jobs, skills and wages, *Economia e Lavoro*, 1, 2004, pp.10-41.

(with J. Michie and C. Oughton) Innovation and the economy, *International Review of Applied Economics*, Special issue on 'Innovation, Growth and Employment' edited by J. Michie, C. Oughton and M. Pianta, 16, 3, 2002, 253-264.

(with T. Antonucci) Employment effects of product and process innovations in Europe, *International Review of Applied Economics*, 16, 3, 2002, 295-307.

(with V. Spiezia and M. Vivarelli) Una spiegazione strutturale della disoccupazione: Italia e paesi avanzati a confronto. *Rivista Internazionale di Scienze Sociali*, 106, 1998: 191-214.

(with M. Vivarelli and R. Evangelista) *Innovation and employment: evidence from Italian manufacturing*, *Research Policy*, 25, 1996, pp.1013-1026.

(with R. Evangelista e G. Perani) *The dynamics of innovation and employment: an international comparison*, *Science Technology Industry Review*, 18, 1996, OECD, Paris, pp.67-93.

(with V. Meliciani) Technological specialization and economic performance in OECD countries, *Technology Analysis and Strategic Management*, 2, 1996, pp. 157-174. Ital. transl. Specializzazione tecnologica e crescita economica nei paesi Ocse, *Rivista Internazionale di Scienze Economiche e Commerciali*, n.7-8, 1995, pp.565-588.

(with D. Archibugi) Measuring technological change through patents and innovation surveys, *Technovation*, 9, 1996, pp.451-468.

Technology and growth in OECD countries, 1970-1990, *Cambridge Journal of Economics*, 19, 1, 1995, pp.175-187.

(with D. Archibugi) Aggregate Convergence and Sectoral Specialization in Innovation, *Journal of Evolutionary Economics*, 4, 1994, pp. 17-33.

(with D. Archibugi) Specialization and Size of Technological Activities in Industrial Countries: the Analysis of Patent Data, *Research Policy*, 21, 1992, pp.79-93.

Industrial and technological aspects of a strategy for converting military industry. *Most, Economic Journal on Eastern Europe and Russia*, 2, 1992, pp.5-26.

Authored Books

(with M. Franzini) *Explaining inequality*, London, Routledge, 2016. Italian translation: *Disuguaglianze. Quante sono, come combatterle*. Rome-Bari, Laterza, 2016.

(with M. Lucchese and L. Nascia) *What is to be produced? The making of a new industrial policy in Europe*. Brussels, Rosa Luxemburg Stiftung, 2016. German translation: *Industriepolitik in Europa. Welchen Spielraum bietet der aktuelle Rechtsrahmen der EU für eine progressive Industriepolitik?* Brussels, Rosa Luxemburg Stiftung, 2017.

(with G. Marcon) *Sbilanciamo l'economia. Una via d'uscita dalla crisi*, Rome-Bari, Laterza, 2013.

Nove su dieci. Perché stiamo (quasi) tutti peggio di 10 anni fa, Rome-Bari, Laterza, 2012.

(with C. Antonelli, F. Barbiellini Amidei, R. Giannetti, M. Gomellini, S. Pastorelli) *Innovazione tecnologica e sviluppo industriale nel secondo dopoguerra*. Laterza, Rome-Bari, 2007, pp.820. Co-author of the section "Commercio con l'estero e tecnologia in Italia negli anni cinquanta e sessanta", pp. 377-616.

Globalizzazione dal basso. Economia mondiale e movimenti sociali. Manifestolibri, Roma, 2001, pp.190.

(with D. Archibugi), *The Technological Specialization of Advanced Countries. A Report to the EC on International Science and Technology Activities*, Preface by Jacques Delors, Kluwer, Dordrecht, 1992, pp.164.

(with G. Perani), *L'industria militare in Italia. Ascesa e declino della produzione di armamenti*, Edizioni Associate, Roma, 1991, pp.223.

(with A. Castagnola), *La riconversione dell'industria militare. Le strategie per disarmare l'economia*, Edizioni Cultura della Pace, S. Domenico di Fiesole, 1990, pp.212.

New technologies across the Atlantic: US leadership or European autonomy? Preface by M. Kaldor, Hemel Hempstead, UK, Harvester-Wheatsheaf and United Nations University, 1988, pp.170. Ital. transl. *Stati Uniti: il declino di un impero tecnologico. Nuove tecnologie e potere economico internazionale tra Usa, Europa e Giappone*, Roma, Edizioni Lavoro, 1988, pp.219.

European Reports

(with L. Nascia and G. La Placa) RIO Country Report, Italy, 2017, JRC Science and Policy Report, European Commission, Joint Research Centre, Institute for Prospective Technological Studies, Brussels, 2018.

(with L. Nascia and L. Isella) RIO Country Report, Italy, 2016, JRC Science and Policy Report, European Commission, Joint Research Centre, Institute for Prospective Technological Studies, Brussels, 2017.

(with L. Nascia and G. La Placa) RIO country report, Italy 2015, JRC Science and Policy Report, European Commission, Joint Research Centre, Institute for Prospective Technological Studies, Brussels, 2016.

(with L. Nascia) RIO country report, Italy 2014, JRC Science and Policy Report, European Commission, Joint Research Centre, Institute for Prospective Technological Studies, Brussels, 2015.

(with L. Nascia) ERAWATCH country report 2013: Italy, JRC Science and Policy Report, European Commission, Joint Research Centre, Institute for Prospective Technological Studies, Brussels, 2014.

Edited Books

(co-editor with P. Utting and A. Ellersiek) *Global Justice Activism and Policy Reform in Europe. Understanding how change happens*. London, Routledge, 2012.

(co-editor with G. Cesarale) G. Arrighi, *Capitalismo e (dis)ordine mondiale*. Manifestolibri, Roma, 2010.

(co-editor with F. Malerba and A. Zanfei of the Italian edition) J. Fagerberg, D. Mowery e R. Nelson (eds) *Innovazione. Imprese, industrie, economie*, Carocci, Roma, 2007.

(co-editor with M. Vivarelli) *The employment impact of innovation. Evidence and policy*. Routledge, London, 2000, pp.224.

(co-editor with P. Guerrieri), *Tecnologia, crescita e occupazione*, CUEN, Napoli, 1998, pp. 243.

(co-editor with M. De Cecco), *Amministrazione militare e spesa per armamenti in Europa*, Il Mulino, Bologna, 1992, pp.495.

L' economia globale. Stati Uniti, Europa e Giappone tra competizione e conflitto. Roma, Edizioni Lavoro, 1989, pp.166.

Book Chapters

(with M. Lucchese and L. Nascia) Reshaping the economy. An industrial and investment policy for Europe. In Moneta, A., Gabellini, T., Gasperin, S. (eds) 'Economic Crisis and Economic Thought: Alternative Theoretical Perspectives on the Economic Crisis'. 2019, Routledge.

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