

Curriculum Vitae

Pier Paolo Saviotti

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DATE OF BIRTH:

EDUCATION

- 1980 M.Sc in Structure and Organisation of Science and Technology, University of Manchester.
- 1975 Ph.D., Physical Chemistry, McGill University, Montreal.
- 1968 Laurea in Chimica, University of Perugia, Italy.
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LANGUAGES

Italian, English, French and Spanish spoken and written.

ACADEMIC CAREER:

- 2018-2021 Affiliate Professor, Department of Economics, Sant'Anna School of Advanced Studies, Pisa, Italy
- 2015-2017 Visiting Research Fellow, Faculty of Geosciences, Cross-faculty Institutions Program, Utrecht University, Utrecht, The Netherlands
- 2015-2016 Research Professor, Kore University, Enna, Italy
- 2012 - 2014 Guest Professor, Eindhoven Centre for Innovation Studies (ECIS), School of Innovation Sciences, Eindhoven University of Technology
- 2012 - (01-03) Research Fellow, Institute of Advanced Studies, Durham University
- 2011-12 and 2018- Associate Research Fellow, CNRS-GREDEG, Sophia Antipolis
- 2010 - 2011 Guest Professor, Department of Economics, University of Hohenheim
- 2000-2012 Directeur de Recherche(*), UMR GAEL, Grenoble, (50%) of time.
- 2000-2012 Directeur de Recherche(*) GREDEG (ex-IDEFI), Sophia Antipolis (50%) of time.
- 1996- 2000 Director, Unité INRA, Grenoble, and Director, Equipe SERD, INRA, Grenoble.
- 1989 - 1994 Lecturer, Department of Economics, University of Manchester.
- 1980 - 1989 Lecturer, Department of Science and Technology Policy, University of Manchester.

1979 - 1980 Research Fellow, PREST, University of Manchester.
1976 - 1978 Chemistry Lecturer, Universidad del Zulia, Maracaibo, Venezuela.
1975 - 1976 Research Fellow, McGill University, Montreal.
1969 - 1970 Researcher, Snam Progetti (ENI) Research Laboratories.

(*) Directeur de Recherche = Research professor, is the equivalent of professor in research institutes like CNRS or INRA.

TEACHING

Sixth GRAZ Schumpeter Summer School, Graz, Austria, September 9-13, 2018

Nice University, Summer School on "Knowledge Dynamics, Industry Evolution, Economic Development", 2012-2013

ISUFI, University of Salento, Lecce, 2007, 2008, 2009

Grenoble Ecole de Management, Economics of Innovation, Module for the MSc in Innovation and Technology Management, 2008 - 2011

1ST GRAZ Schumpeter Summer School, 17-22 July 2007

Summer School "The Economics of Innovative Change", Department of Economics, Friedrich-Schiller University Jena and Max-Planck Institute of Economics, Jena, July 30-August 11, 2007 and 2009

DIMETIC Summer School "Geography of innovation and growth: Theory and empirics" Pecs, Hungary July 2-6 2007 and July 1-2, 2009, 2010

University of Pavia, Module on complexity and the economy, January-April 2004-2006 and 2008

GREDEG, CNRS, Sophia Antipolis: Module on Variety, Innovation and Economic Development, in the DEA, (~MA) and now Master in the Economics of Innovation, 2002-

Friedrich Schiller University, Jena, Germany, Visiting Professor, Academic Year 2002-2003, Modules on Economics of Variety, Economics of Knowledge, Industry Life Cycles (25h).

Université Pierre Mendès-France, Grenoble:

Economie industrielle, de l'innovation et des organisations, module in the DEA (~M.A.) in Economie Appliquée (Applied Economics), 1996-2000.

Department of Economics, the University of Manchester:

Intermediate Microeconomic Theory, 1990-1993.

Introductory Economics, 1990-1993.

Economics and Management of Technological Change, 1992-1993 .

Department of Science and Technology Policy, University of Manchester:

Economics and Technological Change, M.Sc Core Module, 1982-1989.

Technology and Third World Development, M.Sc. Course, 1983 - 1989.

Contemporary Social Problems of Science and Technology, 1982 - 1984.

Policies for Technological Development in the UK, joint teaching, 1982 to 1992.

Applied Economics for Engineers, 4th year, Electrical Engineering, 1986 to 1991.

Teaching in various courses in physical chemistry and in general chemistry, 1970 - 1978.

RESEARCH INTERESTS

Evolutionary theories of economic and technological change; Theories of economic development; Economics of knowledge; Theories of complexity; The emergence of the Bioeconomy.

PUBLICATIONS.

AUTHORED BOOKS:

- Nelson R.R, Dosi G. Helfat C., Pyka A., Saviotti P.P., Lee K. Dopfer K. Malerba F. Winter S., *Modern Evolutionary Economics, An Overview*, Cambridge, Cambridge University Press , (2018)
- P.P. Saviotti, *Technological Evolution, Variety and the Economy*, Aldershot, Edward Elgar (1996).
- P.P. Saviotti, L. Simonin, V. Zamagni, *Dall'Ammoniaca ai Nuovi Materiali*, Bologna, Il Mulino (1991).
- Coombs R., Saviotti P.P., Walsh V., *Economics and Technological Change*, London, MacMillan, (1987)

EDITED BOOKS:

- P.P. Saviotti, J.S. Metcalfe (eds.), *Evolutionary Theories of Economic and Technological Change: Present Status and Future Prospects*, 2nd edition, London, Routledge Forthcoming February 1, 2020, Reference - 286 Pages ISBN 9780815356646 - CAT# K346466
- Saviotti P.P. (Ed), *Applied Evolutionary Economics*, Cheltenham, Edward Elgar, (2003).
- Saviotti P.P., Nootboom B., (Eds) *Technology and Knowledge: from the Firm to Innovation Systems*, Cheltenham, Edward Elgar, (2000).
- R. Coombs, A. Richards, P. Saviotti, V. Walsh (Eds), *Technological Collaboration: the Dynamics of Cooperation in Industrial Innovation*, Alsdershot, Edward Elgar (1996).
- MacLean D., Saviotti P., Vinck D., (1995) *Design, Networks and Strategies*, Proceedings from COST A3 Workshop in Grenoble, France, June 16-17, 1994.
- R. Coombs, P. Saviotti, V. Walsh (Eds), *Technical Change and Company Strategies*, London, Academic Press (1992). (EBO)
- P.P. Saviotti, J.S. Metcalfe (eds.), *Evolutionary Theories of Economic and Technological Change: Present Status and Future Prospects*, London, Harwood Publishers (1991). (EBO)

EDITED WORKS, CONTRIBUTIONS:

- Pyka A., Saviotti P.P., Nelson R. R., Evolutionary Perspectives on Long Run Economic Development, in Nelson R.R, Dosi G. Helfat C., Pyka A., Saviotti P.P., Lee K. Dopfer

- K. Malerba F. Winter S., *Modern Evolutionary Economics, An Overview*, Cambridge, Cambridge University Press, (2018)
- Saviotti P.P, Innovation and Consumption in the Evolution of Capitalist Societies, in Spinozzi P., Mazzanti M. (Eds) *Cultures of Sustainability and Wellbeing. Theories, Histories and Policies*, London, Routledge (2017)
- Saviotti P.P, Structural change, knowledge and the bioeconomy, in Dabbert S., Lewandowski I., Pyka A., Weiss J., *Knowledge-Driven Developments in the Bioeconomy - Technological and Economic Perspectives*, Heidelberg, Berlin, Springer (2017)
- Lionel Nesta and Pier Paolo Saviotti (2014), 'Coherence of the Knowledge Base and the Firm's Innovative Performance: Evidence from the U.S. Pharmaceutical Industry' in Link A N., Antonelli C. (Eds), *Recent Developments In The Economics Of Science And Innovation*, Cheltenham, Edward Elgar (2014)
- Saviotti P. P., Innovation, financial activities and the future of the EU, in Pyka A., Burghof HP (Eds), *Innovation and Finance*, London, Routledge (2014)
- Javaid M.N., Saviotti P.P., Financial Systems and Technological Catching-up: An Empirical Analysis, in Pyka A., Andersen, E. S. (Eds) *Long Term Economic Development*, Heidelberg, Springer (2013)
- Saviotti P.P., Innovación, diferenciación y recursos naturales en el proceso de desarrollo, in *Foro Estrategia Nacional y Estructura Productiva*, Montevideo, Uruguay (2013) ISBN 978-9974-8234-2-6
- Saviotti P. P., R&D and the firm, pp. 405-423 in Dietrich M., Krafft J., (Eds) *Handbook on the economics and theory of the firm*, Cheltenham, Edward elgar, (2012)
- Saviotti P. P., Towards a theoretical framework for the generation and utilisation of knowledge, in *Handbook of Knowledge and Economics* Arena R., Festré A., Lazaric N, (eds) pp. 211-245, Cheltenham, Edward elgar, (2012)
- Saviotti P. P., Knowledge, complexity and networks, in Antonelli C. (ED) *Handbook on the Economic Complexity of Technological Change*, Cheltenham, Edward Elgar (2011)
- Saviotti P.P. Complexity, the co-evolution of technologies and institutions and the dynamics of socio-economic systems, in Arweiler P (Ed) *Innovation in complex social systems*, London, Routledge (2010)
- Saviotti P.P. , Pyka A., Product Variety, Competition and Economic Growth, pp 71-95 in Cantner U., Gaffard J.L, Nesta L. (Eds) *Schumpeterian Perspectives on Innovation, Competition and Growth*, Springer, Berlin, Heidelberg (2009)
- Saviotti P.P., Knowledge networks: structure and dynamics, in Pyka A, Scharnorst A. (Eds) *Innovation Networks: New Approaches in Modelling and Analyzing*, Heidelberg, Springer Verlag (2009) pp. 19-41
- Saviotti P.P., Catherine D., Innovation networks in biotechnology, pp 53-82 in Patzelt H, Brenner T., (Eds) *Handbook of Bioentrepreneurship*, Heidelberg, Springer Verlag (2008)
- Saviotti P.P., Qualitative change and economic development, pp 820-839 in Hanusch H., Pyka A., (Eds) *Elgar Companion to Neo-Schumpeterian Economics*, Cheltenham, Edward Elgar (2007).
- Pyka A., Saviotti P.P., The concept of network organization – biotechnology-based industries as exemplar, in Dopfer K., (Ed) *Economics, Evolution and the State: the Governance of Complexity*, Cheltenham, Edward Elgar (2005).
- Saviotti P.P., On the co-evolution of technologies and Institutions, in Weber M., Hemmelskamp J., *Towards Environmental Innovation Systems*, Berlin, Heidelberg, New York, Springer (2005).
- Saviotti P.P., Introduction, in Saviotti P.P. (Ed), *Applied Evolutionary Economics*, Cheltenham, Edward Elgar, (2003).
- Saviotti P.P., On the policy implications of variety growth for developing and industrializing countries, in Cassiolato J.E., Lastres H.M.M., Maciel M.L., (Eds) *Systems of Innovation and Development, Evidence from Brazil*, Cheltenham, Edward Elgar (2003).

- Pyka A, Saviotti P.P., (2002) Innovation Networks in the Biotechnology-Based Sectors, in Pyka A., Koppers G.(Eds), *Innovation Networks: Theory and Practice*, Cheltenham, Edward Elgar, (2002).
- Saviotti P.P., (2002) Variety, growth and demand, in Mc Meekin A., Green K., Tomlinson M. Walsh V., (Eds) *Innovation by Demand: an Interdisciplinary Approach to the Study of Demand and its Role in Innovation*, Manchester, Manchester University Press.
- Saviotti P.P., Inter-industrial collaboration and the organization of R&D, in Plunkett A., Voisin C., Bellon B., *The Dynamics of Industrial Collaboration: a Diversity of Theories and Empirical Approaches*, Cheltenham, Edward Elgar (2001)
- Saviotti P.P., Networks, national innovation systems and self-organisation, in Fischer M.M., Frolich J. (Eds), *Knowledge, Complexity and Innovation Systems*, Berlin, Springer Verlag, (2001) pp. 21-45.
- Saviotti P.P., Variety, growth and demand, in Witt U. (Ed) *Escaping Satiation*, Berlin, Springer Verlag (2001).
- Saviotti P.P., Considerations about a production system with qualitative change, in Metcalfe J.S., Foster J, *Frontiers of Evolutionary Economics: Competition, Self-Organization and Innovation Policy*, Cheltenham, Edward Elgar (2001)
- Frenken K., Saviotti P.P., Trommetter M., Variety and economic development :conceptual issues and measurement problems, in Cantner U., Hanusch H., Klepper S., *Economic Evolution, Learning and Complexity*, Heidelberg-New York, Physica Verlag (2000).
- Saviotti P.P., Knowledge, information and organizational structures, in Langlois R., Robertson P.L., (Ed) *Authority and Control in Modern Industry*, London, Routledge (1999)
- Saviotti P.P., Technological evolution and firm behaviour, in Lesourne J., Orléan A . (Eds) *Advances in Self-Organization and Evolutionary Economics*, Paris, Economica (1998).
- Saviotti P.P., Product differentiation, in Arena R., Longhi C.(Eds), *Markets and Organization*, Springer, Heidelberg, Berlin (1998)
- Saviotti P.P., Mani G.S., Technological evolution, self-organization and knowledge, in Lazaric N., Lorenz E., (Eds) *Trust and Economic Learning*, Cheltenham, Edward Elgar (1998).
- Saviotti P.P., On the economics of expertise and the expertise of economics, in Williams R., Fleck J., Faulkner W., *Exploring Expertise*, London, MacMillan (1998).
- Saviotti P.P., Mani G.S., Technological evolution, self-organization and knowledge, in Garcia C.E., Sanz-Menéndez L. (Eds) *Management and Technology*, COST A3, Vol 5, Luxembourg, European Communities, (1998).
- Saviotti P.P., 'Industrial structure and the dynamics of knowledge generation in biotechnology', and 'The creation of European dedicated Biotechnology Firms (with M.A. de Looze, J.Estades, P.B.Joly, S.Ramani) in J Senker (ed) *Biotechnology and Competitive Advantage. Europe's Firms and the US Challenge*, Cheltenham, Edward Elgar (1998).
- Saviotti P.P., Product differentiation, in Arena R., Longhi C. (Eds) *Markets and Organization*, Berlin, Heidelberg, New York, Springer Verlag (1998)
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- Saviotti P.P., Innovation Systems and Evolutionary Theories, in Edquist C. (Ed) *Systems of Innovation: Technologies, Institutions and Organizations*, London and Washington, Pinter, (1997).
- Saviotti P.P., Variety, economic and technological development, in Shionoya Y., Perlman M. (Eds) *Technology, Industries and Institutions: Studies in Schumpeterian Perspectives*, Ann Arbor, the University of Michigan Press (1994).
- P.P. Saviotti, P.J. Gummert, 'Britain's evolving technology policy: the end of defence domination', in J.Niosi (Ed) *New Technology Policy and Social Innovations in the Firm*, London, Frances Pinter (1994).

- P. Stubbs, P.P. Saviotti, Science and Technology Policy, in Artis M., Lee N. (Eds) *The Economics of the European Union*, Oxford, Oxford University Press (1994)
- R. Coombs, P. Saviotti, V. Walsh, Technology and the firm: the convergence of economic and social approaches' in R. Coombs, P. Saviotti, V. Walsh (Eds), op. cit.(1992)
- P.P. Saviotti, R&D, imitation and innovation at Montecatini, in Dosi G., Giannetti R., Toninelli P.A. (Eds), *Technology and the Enterprise in a Historical Perspective*, Oxford, Clarendon Press (1992).
- P.P. Saviotti, Ricerca e sviluppo, imitazione e innovazione alla Montecatini, in R. Giannetti, P.A. Toninelli (Eds), *Innovazione, Impresa e Sviluppo Economico*, Bologna, Il Mulino, (1991).
- P.P. Saviotti, J.S. Metcalfe, Present developments and trends in evolutionary economics, in P.P. Saviotti, J.S. Metcalfe (eds.), *Evolutionary Theories of Economic and Technological Change: Present Status and Future Prospects*, London, Harwood Publishers (1991).
- P.P. Saviotti, The role of variety in economic and technological development, in P.P. Saviotti, J.S. Metcalfe (eds.), op. cit. (1991).
- Saviotti P.P., Il ruolo della ricerca e della tecnologia nello sviluppo della Montecatini, in *La Montecatini: 1988-1965. Capitoli di storia di una grande impresa* Bologna, Il Mulino (1990). F. Amatori, B. Bezza (eds.).
- Saviotti P.P., The measurement of changes in technological output, in A.F.J. Van Raan (ed.) *Handbook of quantitative studies in Science and Technology*, Amsterdam, Elsevier, 1988.
- Saviotti P.P., Bowman A., Indicators of Output of Technology, some general considerations and an application to the Evolution of Aircraft Technology", in *Science and Technology Policy in the 1980s and beyond*, (M. Gibbons, P. Gummett, eds.), London: Longman (1984).
- Saviotti P.P., Technical Change", in *Science, Technology and Society Today*, (M. Gibbons, P. Gummett, eds.), Manchester: Manchester University Press (1984).

ACADEMIC JOURNALS, PAPERS:

- Saviotti P.P., Pyka A. , Innovation, structural change and demand evolution: does demand saturate? *Journal of Evolutionary Economics*, (2017) 27:337 – 358 DOI 10.1007/s00191-015-0428-2
- Saviotti P.P., Pyka A. , Jun B., Education, structural change and economic development; forthcoming in *Structural Change and Economic Development*, special issue on Complexity and Economic Development (2016), Vol 38, 55-68, (2016) <http://dx.doi.org/10.1016/j.strueco.2016.04.002>
- Jackie Krafft, Francesco Quatraro & Pier Paolo Saviotti (2014): The Dynamics of Knowledge-intensive Sectors' Knowledge Base: Evidence from Biotechnology and Telecommunications, *Industry and Innovation*, DOI: [10.1080/13662716.2014.919762](https://doi.org/10.1080/13662716.2014.919762)
- Krafft J., Quatraro F., Saviotti P. P., Knowledge characteristics and the dynamics of technological alliances in Pharmaceuticals: Empirical evidence from Europe, US and Japan, forthcoming *Journal of Evolutionary Economics* (2014) (DOI) [10.1007/s00191-014-0338-8](https://doi.org/10.1007/s00191-014-0338-8)
- Saviotti P.P., Pyka A. , *The co-evolution of innovation, demand and growth*, Economics of Innovation and New Technology, Volume 22, Issue 5, 461-482 (2013)
- Saviotti P.P., Pyka A. (2012), On The Co-Evolution Of Innovation And Demand: Some Policy Implications, *Revue de l'OFCE*, n°124, pp 349-388 - *Debates and policies: Agent-based models and economic policy*, edited by Jean-Luc Gaffard and Mauro Napoletano
- Javaid N.M., Saviotti P.P., Financial system and technological catching-up: an empirical analysis, Is there a recipe for increasing the export variety of nations? *Journal of Evolutionary Economics*, Vol 22 (2012) pp. 847-870

- Krafft J., Quatraro F., Saviotti P.P., The Knowledge Base Evolution in Biotechnology: A Social Network Analysis., *Economics of Innovation and New Technology*, Vol 20 Number 5, (2011) 445-476
- Saviotti P.P., Pyka A., Generalized barriers to entry and economic development, *Journal of Evolutionary Economics*, Vol 21 (2010) pp 29-52
- Saviotti P.P., Pyka A., Product Variety, Competition and Economic Growth, *Journal of Evolutionary Economics*, Vol 18 (2008) 323-347
- Saviotti P.P., Frenken K., Export variety and the economic performance of countries, *Journal of Evolutionary Economics*, Vol 18 (2008) pp. 201-218
- Saviotti P.P., Pyka A., Micro and macro dynamics: Industry life cycles, inter-sector coordination and aggregate growth, *Journal of Evolutionary Economics*, Vol 18 (2008) pp. 167-182
- Saviotti P.P., On The dynamics of generation and utilisation of knowledge: the local character of knowledge, *Structural Change and Economic Dynamics* 18-(2007) 387-408
- Nesta LLJ, Saviotti P.P., Firm knowledge and market value in biotechnology, *Industrial and Corporate Change*, Vol 15, 625-652 (2006)
- Grebel T., Krafft J., Saviotti P.P., On the life cycle of knowledge intensive sectors, *Revue de l'OFCE*, pp. 63-85, Special issue, (June 2006).
- Nesta LLJ, Saviotti P.P., Intégration technologique et valeur boursière des firmes de biotechnologies , *OFCE Review*, Jan 2006.
- Nguyen P, Saviotti PP, Trommetter M., Bourgeois B., Variety and the evolution of refinery processing, *Industrial and Corporate Change*, Vol. 14 (2005) 469-500.
- Pyka A., Saviotti P., The evolution of R&D networking in the biotech industries, *International Journal of Entrepreneur and Innovation Management* Vol. 5 (2005) 49-68.
- Saviotti P.P., de Looze M.A, Maupertuis, M.A., 'Knowledge dynamics and the mergers of firms in the biotechnology based sectors, *Economics of Innovation and New Technology*, Vol. 14 (2005) 103-124.
- Nesta L.J.J, Saviotti P.P., Coherence of the knowledge base and the firm's innovative performance: evidence from the US pharmaceutical industry, *Journal of Industrial Economics*, Vol 53 (2005) 105-124.
- Saviotti P.P., Pyka A. Economic development, variety and employment, *Revue Economique*, Vol 55 (6) special issue on Structural change and Growth, (J.L Gaffard, P.P. Saviotti eds), (November 2004)
- Saviotti P.P., Pyka A. Economic development, qualitative change and employment creation, *Structural Change and Economic Dynamics* Vol 15 (2004) 265-287.
- Saviotti P.P., Considerations about knowledge production and strategies, *Journal of Institutional and Theoretical Economics* 160 (2004) 100-121.
- Saviotti P.P., Pyka A., Economic development by the creation of new sectors, *Journal of Evolutionary Economics*, 14, (1) (2004) 1-35.
- Saviotti P.P., de Looze M.A, Maupertuis, M.A., Nesta L.. 'Knowledge dynamics and the mergers of firms in the biotechnology based sectors, *International Journal of Biotechnology*, Vol. 5 (2003) 371-401.
- Saviotti P.P., Variety, growth and demand, *Journal of Evolutionary economics*, Vol.11 (2001) 119-142.
- Frenken K. , Saviotti P.P., Trommetter M., Variety and niche creation in aircraft, helicopters, motorcycles and microcomputers, *Research Policy*, Vol. 28 (1999) 469-488.
- Saviotti P.P., Mani G., Technological evolution, self-organization and knowledge, *The Journal of High Technology Management Research*, Vol. 9, N° 2, (1998) 255-270.
- Saviotti P.P., On the dynamics of appropriability, of tacit and codified knowledge, *Research Policy*, Vol. 26 (1998) 843-56.
- Saviotti P.P., Mani G., Competition, variety and technological evolution: a replicator dynamics model, *Journal of Evolutionary Economics*, Vol. 5 (1995) 369-392.
- Saviotti P.P., Renouveau des politiques industrielles: le point de vue des théories évolutionnistes, *Revue d'Economie Industrielle*, Special Issue on Transformation des

- Politiques Industrielles dans les Années 1990, N° 71, 1° Trimestre (1995), pp 199-212.
- Saviotti P.P., 'Technology mapping and the evaluation of technological change' *International Journal of Technology Management*, Vol. 10 (1995) 407-425.
- J. Niosi, P.P.Saviotti, B. Bellon, M. Crow, National systems of innovation,: in search of a workable concept, *Technology in Society* Vol.15 (1993)207-227.
- P.P. Saviotti, A. Trickett, The evolution of helicopter technology: 1940-1986, *Economics of Innovation and New Technology*, Vol. 2 (1992) 111-130.
- J. Niosi, P.P.Saviotti, B. Bellon, M. Crow, Les systemes nationaux d'innovation: a la recherche d'un concept utilisable', *Revue Francaise d' Economie*, No. 1, Vol. 7, (April 1992).
- Saviotti P.P., Information, entropy and variety in technoeconomic development, *Research Policy*, 17 (1988), 89-103.
- Saviotti P.P., Systems, Theory and Technological Change, *Futures*, 18, (1986), 773-786.
- Saviotti P.P., An approach to the measurement of technology based on the hedonic price method and related methods" *Technological Forecasting and Social Change*, 27, (1985) 309-334, reprinted in H. Grupp (ed.) *Problems of measuring technological change*, Koln, Verlag TUV Rheinland (1986).
- Saviotti P.P., Metcalfe J.S. A Theoretical Approach to the Construction of Technological Output Indicators, *Research Policy*, 13 (1984), 141-151.
- Gibbons M., Coombs R., Saviotti P.P., Stubbs P. Innovation and Technical Change, a case study of the UK tractor industry 1957-77, *Research Policy*, 11 (1982), 289-310.
- Saviotti P.P., An approach to the construction of indexes of technological change and of technological sophistication; the case of agricultural tractors", *Technological Forecasting and Social Change*, 21 (1982), 133-147.
- Gibbons M., Coombs R., Saviotti P.P., Stubbs P., Technological Innovation and Competitiveness in the Agricultural Tractor Industry, *Physics in Technology*, 12 (6), 240-245, (1981).
- Saviotti P.P., Gilson D., Radical Recombination and the Solid State Polymerization of Alkali Metal Acrylates, *Journal of Physical Chemistry*, (1978).
- Gilson D., Saviotti P.P., NMR Studies in Trimethylene Oxide and Sulphide: ring puckering motion in the solid phase", *J.Magn.Res.*, 28, 243-246, (1977).
- Saviotti P.P., Gilson D. Monomer Mobility and the Solid State Polymerization of Alkali Metal Acrylates", *J.Phys.Chem*, 80, 1057-59, (1976).
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OTHER JOURNALS

- Saviotti, P. P., M. A. de Looze, et al. (2000) "The changing marketplace of bioinformatics.", *Nature Biotechnology*, 18, pp. 1247-1249.
- Saviotti, P.P., 1999.- Biotechnologie : l'aube d'une révolution ? *Biofutur*, n° 194, novembre, pp. 12-14
- Saviotti, P.P., 1999 .- Nouvelles relations entre recherche publique et privée : vers la création de la société des connaissances .- In : *Déméter, 2000 - Economie et stratégies agricoles* .- Paris : Armand Colin, pp. 213-235
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REPORTS

- Saviotti P.P., 'The role of knowledge creation and diffusion as a driver of industrial diversification and its contribution to entrepreneurship', Chapter for an OECD report on policies for local emerging industries in Coventry and Warwickshire in the UK, October 2017 - March 2018
- Saviotti P.P., Catherine D., *Le rôle des PME dans la compétitivité du pôle MINALOGIC*, a report for the OECD Leed programme (March 2007)
- Saviotti PP, *Biotechnology*, A report for the Key Technologies expert Group appointed by the European Commission, DG RTD K2 Technology Foresight unit, September 2005
- deLooze M.A., Ramani S. Saviotti P.P., Trommetter M.(2001), under the direction of Saviotti P.P., *Patents and other intellectual Property rights: a comparison between Europe, Japan and the United States*, report for the Japanese delegation to OECD.
- Saviotti, P.P.;De Looze, M.A.;Michelland, S., 1999 .- *Le développement des principales firmes de bioinformatique aux Etats-Unis et en Europe en vue d'une implantation en Isère* Rapport pour l'Agence d'Etudes et de Promotion de l'Isère (ADEPI) .- Grenoble : ADEPI/INRA-SERD, 44p. + annexes
- New possibilities for accessing the capital markets for small and medium-sized biotech enterprises*, Final report to project BIO4-CT97-2011 to the Commission of the EU, DG XII, K.Menrad, M. Lohner, P.P.Saviotti, J.Estades.(December 1998)
- M.A. deLooze, J.Estades, P.B.Joly, S.Ramani, P.P.Saviotti, J.Senker, J.L.Pedersen '*The role of SMEs in technology creation and diffusion: implications for European competitiveness in biotechnology*', report for the BIOTECH programme of the European Commission, DG XII, March 1996.
- The technology transfer practices of Italian firms* with M. Volpe, Report for the National Research Council of Italy (October 1987).
- The exchange of technology in Italian foreign trade* with J.S. Metcalfe. Report for the National Research Council of Italy (December 1985).
- Technology and competitiveness in the tractor industry*, report prepared for the Department of Industry, December 1980.

WORKING PAPERS:

- 'Networking in Biotechnology Industries – From Translators to Explorers', Pyka Andreas and Paolo Saviotti , July 2002, Working Papers, University of Augsburg, Economics Institute (2002).

ORGANISATION AND PROMOTION OF RESEARCH:

- Member of the Scientific Committee, Innovation and Development, Routledge, 2010-
- Member of the Editorial Board, *International Journal of Transition of Innovation Systems* July 2013-
- Member of the Editorial Board, *International Journal of Biotechnology*, 2011-
- Member of the Scientific Committee, *Innovation and Development*, January 2011-
- Member of the Scientific Board, CSAI (Complex Systems & Artificial Intelligence Research Center), Milano-Bicocca University, Milan, Italy 2008-
- Vice President, International Schumpeter Society, 2008-2012
- President, Schumpeter Prize Committee for the year 2006
- Chairman of the Board of Trustees, *Journal of Institutional Economics*, 2004-2007
- Member of the Schumpeter Prize Committee for the year 2000
- Member of the Editorial Board, *Journal of Evolutionary Economics*, September 1997-
- EAEPE Research Area Coordinator (RAC) for technical change, 1992- 2001

- Coordinator of the project 'The role of SMEs in technology creation and diffusion: implications for European competitiveness in biotechnology' within the BIOTECH Programme of the EC (January - December 1996).
- ESRC grant (1st May 1986, 30th April 1988) for the project 'Technological Output Indicator and Industrial Competitiveness'.
- Co-organiser of the following conferences and workshops:

Workshop on 'Structural Change and Economic Development' June 17-21 (2005), Fondation des Treilles, Haute Provence.

'European Meeting on Applied Evolutionary Economics', Grenoble 7-9 June (1999).

Seminar on Biotechnology in the European Union, Technology, Industrial Structure and Competition, Grenoble 7-8 December 1995.

Conference on 'Networks, Institutions and States' Manchester 21-23 April 1993.

Conference on 'Firm Strategy and Technical Change: Microeconomics or Microsociology', Manchester, 28th-30th September 1990.

Workshop on Evolutionary Theories of Economic and Technological Change, 21st-22nd March 1989.

Conference, 'Recent Developments in the Economics of Technological Change, Manchester, 22nd-23rd March 1988.

PROFESSIONAL ADVISORY OR CONSULTANCY WORK

Member of the OECD project team on the Case Study on Policies for Local Emerging Industries in Coventry and Warwickshire, UK, October 2017- March 2018.

- Member of the New High-Level Expert Group on Key Technologies, Commission of the European Communities, Jan-Sept 2005.
- Consultant to TecKnowMetrics, a firm created to carry out analysis of knowledge in firms and research organisations using patents and publications, 2004 -2006.
- Member of the Steering Committee for the preparation of the *European Guide of the Science, Technology and Innovation Study Centres*, funded by the CEC and coordinated by Prof Loet Leydesdorff, Department of Science and Technology Dynamics, University of Amsterdam, September 1997- April 1998.
- February 1988 - September 1988. Member of the panel appointed by the Commission of the European Communities to evaluate the BEP and BAP biotechnology programmes.
- Joint consultant to DTI on the evaluation of technologies, September 1985 - April 1986 and co-author of *The evaluation of technological priorities*, report presented to DTI (May 1986).
- October 1983 - June 1984 Member of the working party on Technological Innovation in Italian Industry of ISTAT (National Statistical Institute of Italy) and of CNR (National Research Council of Italy).

ACADEMIC VISITS.

Guest Professor, Innovation Studies Group, Copernicus Institute of Sustainable Development | Faculty of Geosciences | Utrecht University | The Netherlands, January 2015 December 2017

Guest Professor, Eindhoven Centre for Innovation Studies (ECIS), School of Innovation Sciences, Eindhoven, University of Technology, 2012- 2014

Research Fellow, Institute of Advanced Studies, Durham University, January-March 2012

Guest Professor, Department of Economics, University of Hohenheim, October 2010- 2011

Invited Professor, Rands Afrikaans University, Johannesburg, South Africa, February-March 2004.

Guest Professor, Friederich Schiller University, Jena, October 2002- February 2003.

Professeur invité, INRA-SERD, Université Pierre Mendès-France, Grenoble 2, Sciences Sociales, 38040, Grenoble , France, from September 1993 to August 1994.

IIASA (International Institute for Applied Systems Analysis), Laxenburg, Vienna, 18-19 May 1992.

Visiting Scholar, Department of Economics, Stanford University, July 1990.

Visiting Fellow, MERIT, Faculty of Economics, Limburg University, Maastricht, the Netherlands, October-November 1989.

AWARDS

Awarded the 1997 Gunnar Myrdal prize of EAEPE for the book *Technological Evolution, Variety and the Economy*, Edward Elgar (1996)

'Highest quality rating' by ANBAR Electronic Intelligence for the papers :

Saviotti P.P., Mani G., Technological evolution, self-organization and knowledge, *The Journal of High Technology Management Research*, Vol. 9, N° 2, (1998) 255-270. (*)

Saviotti P.P., On the dynamics of appropriability, of tacit and codified knowledge, *Research Policy*, Vol. 26 (1998) 843-56. (*)

ADMINISTRATIVE EXPERIENCE:

In INRA

January 1996- December 1999, Director, INRA Unit, Grenoble, and Director, SERD Group.

In the Department of Economics of Manchester University:

1993- 2nd Year Exams Officer.

1993- Member, Undergraduate Courses Committee

In the Department of Science and Technology Policy of Manchester University:

1981 - 1988 Second year tutor.

1982 - 1983 Life Science Liaison Officer.

1981 - 1982 Library representative.

1984 - 1988 Third year tutor.

1984 - 1985 Science and Technology Impact Workshop, Organiser.

1983 - 1989 Computer representative.

1987 - 1989 Telephone Liaison Officer.

1988 - 1989 Exams Officer in Science and Technology Policy

and 1990-91
