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Cristiano Antonelli (Firenze, 1951) è professore ordinario di politica economica, nel Dipartimento di economia Salvatore Cognetti de Martiis, Fellow del Collegio Carlo Alberto, Editor della rivista 'Economics of Innovation and New Technology'.

La sua formazione include una laurea in Scienze Politiche all'Università di Torino, un master in economia all' ISTAO di Ancona. In seguito è stato junior economist nella Direzione scienza tecnologia e industria dell'OCSE negli anni 1978 e 1979 e Rockefeller Fellow nella Sloan School del Massachusetts Institute of Technology negli anni 1983-1985.

Ha insegnato nelle Università di Sassari e della Calabria, al Politecnico di Milano, e nelle Università di Manchester, Nizza, Lione Lumière, Aix-en-Provence, Parigi XIII e Parigi XII. Nell'anno accademico 1999-2000 è stato titolare della cattedra Jean Monnet presso l'Università Dauphine Parigi IX.

E' membro del Consiglio di Indirizzo della Fondazione CRT e Presidente del Collegio Sindacale di Transalpina di Energia e Reply. In precedenza è stato Presidente del Consiglio di Corso di Laurea in "Produzione e organizzazione della comunicazione e della conoscenza" dal 2006 al 2012; Direttore del Dipartimento di Economia Salvatore Cognetti de Martiis dal 2004 al 2010, membro del Consiglio di Amministrazione di Telecom Italia (1998-99); Consiglio scientifico della Confindustria (1999-2000); Comitato Tecnico Scientifico dell'ENEA (2000-2004); Vice-President dell'International Schumpeter Society (1999-2004); membro del Consiglio di Amministrazione di Pegaso Investimenti (2008-2010) e Pirelli&C. (2008-2011); Presidente dell'ICER (International Center of Economic Research) (2008-2011).

Ha scritto monografie e saggi pubblicati dalle principali case editrici (Il Mulino, Einaudi, Oxford University Press, Routledge, Stanford University Press, Cambridge University Press, Edward Elgar, Rosenberg&Sellier) e circa 200 articoli scientifici sulle principali riviste italiane e internazionali nell'area dell'economia dell'innovazione e dell'economia industriale.

## PRINCIPALI PUBBLICAZIONI

- 1) C. Antonelli and B. Lamborghini, "Impresa pubblica e tecnologie avanzate. Il caso della STET nell'elettronica" Il Mulino, Bologna, 1978.
- 2) C. Antonelli, "Il finanziamento dell'impresa pubblica. Un caso esemplare: la STET" in G. Cottino (a cura di), Ricerca sulle partecipazioni statali, Einaudi, Torino, 1978.
- 3) C. Antonelli, "De l'evolution de quelques fonctions de cout et de productivité dans les entreprises textiles selon leurs dimensions" Revue d'Economie Industrielle (6) 1978.  
-----
- 4) C. Antonelli, "Il ruolo delle piccole imprese nel sistema produttivo. Una tipologia" in F. Ferrero and S. Scamuzzi (eds.), L'industria in Italia. La piccola impresa, Editori Riuniti, Roma, 1979.
- 5) C. Antonelli and G. Garofalo, "La competitività italiana nel settore delle macchine utensili per la lavorazione dei metalli" in P. Alessandrini (a cura di), Specializzazione e competitività internazionale dell'Italia, Il Mulino, Bologna, 1979.
- 6) C. Antonelli, "Economie esterne e sentieri di crescita delle imprese" in Ricerche e contributi del Laboratorio di Economia Politica Cognetti de Martiis, Giappichelli, Torino, 1979.
- 7) C. Antonelli, "Survey su alcuni sviluppi dell'economia spaziale: il movimento dell'industria nello spazio" Economia e Politica Industriale (21) 1979.
- 8) C. Antonelli, "Innovation as a factor shaping industrial structures: the case of small firms" Social Science Information (18) 1979.  
-----
- 9) C. Antonelli and G. Balcer, Piccola impresa come sistema. Ruolo della piccola e media impresa nell'evoluzione delle strutture industriali, Buffetti, Roma 1980.
- 10) C. Antonelli and F. Momigliano, "Aree economiche, modelli di sviluppo

alternativi e politiche pubbliche di intervento" **L'Industria** (2) 1980.

11) C. Antonelli, "L'impatto degli investimenti diretti all'estero e dei trasferimenti tecnologici sull'economia e sul potenziale tecnologico dei paesi di origine" **L'Industria** (2) 1980.

12) C. Antonelli, "I patterns industriali: teorie ed aspetti empirici" in AA.VV., **Lo sviluppo dei fattori imprenditivi ed organizzativi dell'industria italiana**, Giuffré, Milano 1980.

---

13) C. Antonelli and B. Lamborghini, "The impact of electronics on industrial structures and firms strategies" in OECD, **Microelectronics Productivity and Employment**, Paris 1981.

14) C. Antonelli, "Elementi per un'analisi della politica dell'innovazione in Italia: il processo di formazione di un potenziale scientifico e tecnologico nazionale" **Economia Pubblica** (6) 1981.

---

15) C. Antonelli, **Cambiamento tecnologico e teoria dell'impresa** Loescher, Torino 1982.

16) C. Antonelli, "Intensità di ricerca e performances dell'industria italiana. L'impatto dell'ambiente tecnologico" in E. Gerelli (a cura di), **La politica dell'innovazione industriale: problemi e proposte**, Franco Angeli, Milano 1982.

---

17) C. Antonelli, "Criteri e strumenti delle politiche della innovazione per le piccole imprese" in E. Gerelli (a cura di), **Per una politica dell'innovazione industriale**, Franco Angeli, Milano 1983.

18) C. Antonelli, "Il revival Schumpeteriano" **Economia e Politica Industriale** (37) 1983.

---

19) C. Antonelli, **Cambiamento tecnologico e impresa multinazionale. Il**

ruolo delle reti telematiche nelle strategie globali Franco Angeli, Milano 1984.

20) C. Antonelli, "Multinational firms international trade and international telecommunications" Information Economics and Policy (1)1984.

---

21) C. Antonelli, "Confronti settoriali di determinanti delle spese in ricerca e sviluppo nell'industria manifatturiera italiana" L'Industria (7)1985.

22) C. Antonelli, "The diffusion of an organizational innovation: international data telecommunications and multinational industrial firms" International Journal of Industrial Organization (3) 1985.

---

23) C. Antonelli, "The International diffusion of process innovations and the neotechnology theory of international trade" Economic Notes (11) 1986.

24) C. Antonelli, "The international diffusion of new information technologies" Research Policy (12)1986.

25) C. Antonelli, Technological districts and regional innovation capacity" Revue d'Economie Regionale et Urbaine (5 )1986.

26) C. Antonelli, L'attività innovativa in un distretto industriale. Elementi per l'analisi della distribuzione territoriale e industriale delle domande di brevetto con particolare riferimento alla provincia di Torino Edizioni della Fondazione Agnelli, Torino 1986.

---

27) C. Antonelli, "The determinants of the distribution of innovative activity in a metropolitan area. The case of Turin" Regional Studies (21) 1987.

28) C. Antonelli, "Dall'economia industriale all'organizzazione industriale" Economia Politica (2) 1987.

29) C. Antonelli, "L'impresa rete: cambiamento tecnologico, internalizzazione e appropriazione di quasi rendite" Annali di storia dell'impresa (III)1987.

30) C. Antonelli and L. Ghezzi, "Un'analisi teorica dei processi di diffusione dell'innovazione tecnologica in regime di monopolio temporaneo" **Giornale degli Economisti e Annali di Economia** (XLVI)1987.

---

31) C. Antonelli (ed.), **New Information Technology and Industrial Change: The Italian Case**, Kluwer Academic, Dordrecht and Boston, 1988. reviewed in **Information Economics and Policy** 1990

---

32) C. Antonelli, "The Diffusion of information technology and the demand for telecommunications services" **Telecommunications Policy** (13 )1989.

33) C. Antonelli, "New information technology and industrial organization" in OECD, **Information Technology and New Growth Opportunities**, Paris, 1989.

34) C. Antonelli - P. Petit - G. Tahar, "La diffusion d'une nouvelle technique: l'application d'une innovation dans l'industrie textile" **Revue d'Economie Industrielle** (48) 1989.

35) C. Antonelli - P.Petit - G.Tahar, "Technological diffusion and investment behavior: The case of the textile industry" **Weltwirtschaftliches Archiv** (104) 1989. Also in A. Heertje and M. Perlman (eds.), **Evolving Technology and Market Structure. Studies in Schumpeterian Economics** The University of Michigan Press, Ann Arbor, 1990.

---

36) C. Antonelli, "The role of technological expectations in a mixed model of international diffusion of process innovations: the case of open end spinning rotors" **Research Policy** (15) 1989.

37) C. Antonelli, "A failure inducement model of research and development expenditure: Italian evidence from the early 1980s" **Journal of Economic Behavior and Organization** (12)1989.

38) C. Antonelli, "La diffusion internacional de innovaciones. Pantas, determinantes y efectos" **Pensamiento Iberico Americano** (16 )1989.

39) C. Antonelli, "Capitalismo flessibile o capitalismo organizzato?" **Politica ed Economia** (6) 1989.

40) C. Antonelli et alii, **L'industria della ricerca** IRES, Torino, 1989.

---

41) C. Antonelli, "Profitability and imitation in the diffusion of process innovations" **Rivista Internazionale di Scienze Economiche e Commerciali** (36) 1990.

42) C. Antonelli, "Induced adoption and externalities in the regional diffusion of new information technology" **Regional Studies** (24) 1990

43) C. Antonelli and G. Tahar, "The adoption of process innovations and the competitive selection mechanism. The case of the Italian cotton weaving industry 1973-1982" **Economic Notes** (15) 1990.

44) C. Antonelli - P. Petit - G. Tahar, "The diffusion of interdependent innovations in the textile industry" **Structural Change and Economic Dynamics** (1) 1990.

45) C. Antonelli, "Information technology and the derived demand for telecommunications services in the manufacturing industry" **Information Economics and Policy** (4) 1990.

46) C. Antonelli, "The diffusion of information technology in the Italian economy: a preliminary assessment" **Keio Communication Review** (12) 1990.

47) C. Antonelli, "The diffusion of innovations as a factor shaping industrial structures: the case of shuttle-less looms" in T. Vasko - T. Ayres - L. Fontvieille (eds.) **Life Cycles and Long Waves**, Springer-Verlag, Berlin, 1990.

48) C. Antonelli, "Diffusione: investimenti e adozione" in M. Amendola (ed.) **Innovazione e progresso tecnico**, Il Mulino per la Società Italiana degli Economisti, Bologna, 1990.

---

49) C. Antonelli, **The Diffusion of Advanced Telecommunications in Developing Countries**, OECD Development Center, Paris, 1991. Reviewed in **Research Policy**

50) C. Antonelli and G. Gottardi, "Localized technological change: the interaction between the generation and the diffusion of new technologies" **Economics of Innovation and New Technology** (1)1991.

---

51) C. Antonelli (ed.), **The Economics of Information Networks**, ELsevier, Amsterdam, 1992. Reviewed in **Research Policy**

52) C. Antonelli and D. Foray, "Technological clubs: cooperation and competition" **Economics of Innovation and New Technology** (2)1992.

53) C. Antonelli, Pascal Petit and Gabriel Tahar, **The Economics of Industrial Modernization**, Academic Press, Cambridge, 1992. Reviewed in **International Journal of Industrial Organization**

54) C. Antonelli, "Information economics and industrial organization" **Human Systems Management** (11) 1992.

---

55) C. Antonelli, "The dynamics of technological interrelatedness. The case of information and communication technologies" in D. Foray and C. Freeman (eds.), **Technology and the Wealth of Nations**, Francis Pinter, London, 1993.

56) C. Antonelli, "Investment productivity growth and key technologies. The case of advanced telecommunications" **Manchester School** (61)1993.

57) C. Antonelli, "Investment and adoption in advanced telecommunications" **Journal of Economic Behavior and Organization** (17) 1993, 227-246..

58) C. Antonelli, "Complementarity and externality in telecommunications dynamics" **International Journal of Industrial Organization** (11) 1993.

---

59) C. Antonelli, "Increasing returns: natural monopoly and networks. The case of telecommunications" in G. Pogorel (ed.) **Global Telecommunications Strategies and Technological Changes**, North Holland, Amsterdam, 1994.

60) C. Antonelli, "Localized technological changes. A model incorporating switching costs and R&D expenses with endowment advantages" in M. Perlman and Y. Shiononya (eds.) **Innovation in Technology Industries and**

**Institutions: Comparative Perspectives. Studies in Schumpeterian Economics.** University of Michigan Press, Ann Arbor, 1994.

- 61) C. Antonelli, "Technological districts localized spillovers and productivity growth. The Italian evidence on technological externalities in the core regions" **International Review of Applied Economics** (8)1994.
- 62) C. Antonelli and A. Geuna, "The international economics of telecommunications services in Europe" in Erik Bohlin and Owe Granstrand (eds.) **The Race to European Eminence**, Amsterdam: North Holland, 1994.
- 63) C. Antonelli, "Localized technological change and the evolution of standards as economic institutions" **Information Economics and Policy** (6)1994; Alsao, with significant changes, in Chandler, A.D., Hagstrom, P. and Solvell, O. (eds.) (1998), **The dynamic firm: The role of technology strategy organization and regions**, Oxford, Oxford University Press.
- 64) C. Antonelli and G. Militello, "I caratteri della crisi in corso e la nuova politica industriale" **L'Industria** (16) 1994.
- 
- 65) C. Antonelli, "The diffusion of new information technology and productivity growth" **Journal of Evolutionary Economics** (5) 1995.
- 66) C. Antonelli, **The Economics of Localized Technological Change and Industrial Dynamics**, Kluwer Academic Publishers, Boston, 1995. Reviewed in Journal of Economic Literature, Empirica, Regional Studies. An Italian expanded version has been published, **Economia dell'innovazione**, Bari-Roma: Laterza, 1995.
- 67) C. Antonelli, "Technological change and multinational growth in international telecommunications services" **Review of Industrial Organization** (10)1995. Also in E. M. Noam and A. J. Wolfson (eds.), **Globalism and Localism in Telecommunications**, Amsterdam: Elsevier, 1997.
- 68) C. Antonelli, "Localized technological change in the network of networks. The interaction of regulation and technological change in telecommunications" **Industrial and Corporate Change** (5) 1995.
- 69) C. Antonelli, "Generic versus localized knowledge: a model of technical

choice" in J. Allouche and G. Pogorel (eds.) **Handbook of Technology Management**. North Holland, Amsterdam, 1995. Translated as "Connaissance generique versus connaissance localisee: un modele de choix technique". in Pierre Garrouste (ed.) **Les frontieres de la firme**, Paris: Economica1997.

70) C. Antonelli, "Il cambiamento tecnologico: innovazione e modernizzazione (1945-1990)" in **Storia dell'Italia Repubblicana**, Torino: Einaudi, 1995

71) C. Antonelli and G. Militello, "Il secondo capitalismo: le sfide per la politica" **Il Mulino** (44) 1995.

72) C. Antonelli, "Nuove tecnologie dell'informazione e regolamentazione" Preface to Ithiel De Sola Pool, **Tecnologie di libertà**, Torino: UTET1995.

73) C. Antonelli, "L'organizzazione delle telecomunicazioni italiane" **Il Mulino** (44) 1995.

74) C. Antonelli, "Dynamic structuralism and path-dependence: industrial economics in Italy", **Revue d'Economie Industrielle** (73)1995.

75) C. Antonelli, "Economie des réseaux: variété et complémentarité". in Alain Rallet et André Torre (eds.) **Economie industrielle et economie spatiale**, Paris: Economica1995

---

76) C. Antonelli and G. Militello, "La politica industriale nella nuova economia dell'informazione: tecnologie dell'informazione e processi di apprendimento" **L'Industria** (17) 1996.

77) C. Antonelli, "Localized technological change percolation processes and information networks" in **Journal of Evolutionary Economics**. (6) 1996. Also in Don Lamberton (ed.), **The new research frontiers in communications policy**, Amsterdam: Elsevier, 1996.

78) C. Antonelli, "Localized technological change and Schumpeterian growth regimes" **Manchester School** (66) 1996.

79) C. Antonelli, "Localized technological change and unemployment in the global economy: a Schumpeterian approach" **International Review of Applied Economics** (10) 1996. Also in Don Lamberton (ed.), **Communication and Trade**, Cresskill: Hampton Press, 1998.

80) C. Antonelli, "The network of networks: localized technological change in telecommunications and productivity growth, **Information Economics and Policy** (8) 1996.

---

81) C. Antonelli, "La rete di reti: Ipotesi circa l'evoluzione dei mercati di servizi di telecomunicazioni" in Alfredo Del Monte (ed.), **Regolamentazione**, Bologna: Il Mulino per la Società Italiana degli Economisti, 1997.

82) C. Antonelli, "A regulatory regime for innovation in the communication industries" **Telecommunications Policy** (21)1997.

83) C. Antonelli, "The economics of path-dependence in industrial organization" **International Journal of Industrial Organization** (15) 1997.

84) C. Antonelli, "New information technology and the knowledge-based economy. The Italian evidence" **Review of Industrial Organization**, (12)1997

85) C. Antonelli, "Technological externalities percolation processes and the evolution of technological clubs" **Empirica**, (24) 1997.

86) C. Antonelli and G. Militello, "Integrazione europea e sentieri di convergenza: Un quadro di riferimento per l'azione politica dell'Italia" **L'Industria** (18) 1997.

87) C. Antonelli and A. Lanza, "La battaglia delle telecomunicazioni". **Diritto ed Economia** (9) 1997

---

88) C. Antonelli and R. Marchionatti, "Technological and organizational change in a process of industrial rejuvenation. The case of Italian cotton textile industry" **Cambridge Journal of Economics** (22) 1998.

89) C. Antonelli, "The dynamics of localized technological changes" **Economics of Innovation and New Technology** (6) 1998.

90) C. Antonelli, "Localized technological change new information technology and the knowledge-based economy. The European evidence", **Journal of Evolutionary Economics**, (8)1998. Also (with significant changes) in Mark

Boden e Ian Miles (eds.), Innovation and the service based economy, London: Cassell Academic, 1999.

91) C. Antonelli and G. Militello, "L' UME e l'economia italiana. Europa Europe (7) 1998

---

92) C. Antonelli and M. Calderini, "The role of demand-pull in the dynamics of localized technological changes. An empirical approach" in Alfonso Gambardella and Franco Malerba (eds.) The organization of scientific and technological research in Europe, Cambridge: Cambridge University Press, 1999.

93) C. Antonelli, "The evolution of the industrial organization of the production of knowledge", Cambridge Journal of Economics, (22) 1999. Also (with significant changes) in J. Nightingale and S. Macdonald (eds.), Information and organization: A tribute to the work of Don Lamberton, Amsterdam: Elsevier , 1999.

94) C. Antonelli, "The Microdynamics of Technological Change", London: Routledge, 1999. Reviewed in **Economic Journal** 110: F791-793; **Economica** 67:148-149; **Technovation** 22:135-136; **Research Policy** 32: 1145-1146; **Kyklos** 53:389-390; **Welwirtschaftliches Archiv** 137:549-550

95) C. Antonelli, "The organization of production", Metroeconomica (50) 1999.

96) C. Antonelli, Elementi di economia dell'innovazione, Torino: Theleme, 1999.

97) C. Antonelli, 'Cambiamento tecnologico localizzato e economie di crescita: Il caso della FIAT negli anni 1900-1970. in Annibaldi C. and Berta G. (eds.), Grande impresa e sviluppo industriale, Bologna: Il Mulino, 1999.

98) C. Antonelli, "The dynamics of technological systems. The case communication technologies", Review of Economic Conditions of Italy, 1999.

99) C. Antonelli and G. Militello, "La politica industriale dopo l'integrazione monetaria: non solo privatizzazioni" Quaderni de Il Ponte 1/1999

100) C. Antonelli (ed), "Conoscenza tecnologica. Nuovi paradigmi

dell'innovazione e specificità italiane", Torino: Edizioni della Fondazione Agnelli, 1999.

---

- 101) C. Antonelli, A. Geuna and E. Steinmueller, "New information and communication technologies and the production distribution and use of knowledge", International Journal of Technology Management (20) 2000.
- 102) C. Antonelli, "Recombination and the production of technological knowledge. Some international evidence", in Stan Metcalfe and Ian Miles (eds.), Innovation Systems in the Service Economy, Dordrecht and Boston: Kluwer Academic Publishers, 2000
- 103) C. Antonelli, "Collective knowledge communication and innovation: The evidence of technological districts", Regional Studies. (28) 2000
- 104) C. Antonelli, "Restructuring and innovation in long term regional change", in Gordon L. Clark, Maryann Feldman and Meric S. Gertler (eds.), The Oxford Handbook of Economic Geography, Oxford: Oxford University Press, 2000.
- 105) C. Antonelli and Militello G., "Italia in transizione: Ruolo dello Stato e dei Mercati" Roma: Ediesse, 2000.
- 106) C. Antonelli, "L'evoluzione dell'attività innovativa", in Storia dell'economia mondiale. Volume V, Roma and Bari: Laterza, 2000

---

- 107) C. Antonelli, "Collective knowledge and learning to communicate", in Maryann Feldman and Nadine Massard (eds.), Knowledge Spillovers and the Geography of Innovation: Institutions and Systems of Innovation, Dordrecht: Kluwer, 2001.
- 108) C. Antonelli, 'The Microeconomics of Technological Systems', Oxford: Oxford University Press, 2001. Reviewed in **Journal of Evolutionary Economics** 12, 367-371.
- 109) C. Antonelli and Militello G., "Cambiamento strutturale e politica economica", Quaderni di Rassegna Sindacale (1) 2001.
- 110) C. Antonelli, and Calderini, M., "Le misure della scienza. Attività

scientifica a Torino", Torino: Edizioni della Fondazione Giovanni Agnelli , 2001.

111) C. Antonelli and Ferrao, J. (eds.), Comunicacao conhecimento colectivo e innovacao. As vantagens da agglomeracao geografico, Lisboa: ICS, 2001

112) C. Antonelli, "Cambiamento tecnologico: prezzi relativi e dinamiche della crescita produttiva", Tecnologia e società, Roma: Accademia dei Lincei, 2001.

113) C. Antonelli, "Salaires d'efficience, apprentissage et innovation", in Catin Maurice, Bernard Guilhon and Christian Le Bas (eds.), Activité technologique, connaissance et organization, Paris: L'Harmattan, 2001.

\*\*\*\*\*

114) C. Antonelli, "La grande transizione tecnologica: crisi e riorganizzazione del capitalismo avanzato alla fine del xx secolo", In Storia dell'economia mondiale. Volume VI Nuovi equilibri in un mercato globale, Roma and Bari: Laterza, 2002.

115) C. Antonelli and Quéré, M., "The governance of interactive learning within innovation systems", Urban Studies (39) 2002.

116) C. Antonelli, "The economics of knowledge and the governance of knowledge commons", Revista Brasileira de Inovação (1) 2002

117) C. Antonelli, "Innovation and structural change", Economie Appliquée, (55), 2002.

\*\*\*\*\*

118) C. Antonelli, R. Marchionatti and S. Usai, "Productivity and external knowledge: The Italian case". Rivista Internazionale di Scienze Economiche e Commerciali, (50) 2003.

119) C. Antonelli, "Innovation in advanced telecommunications" in Gary Madden (ed.), Emerging Telecommunications Networks, Volume II of The International Handbook on Telecommunications Economics, Cheltenham: Edward Elgar, 2003.

120) C. Antonelli, J.L. Gaffard and M. Quéré, "Interactive learning and technological knowledge. The localized character of innovation processes", in

Rizzello, Salvatore (ed.), Cognitive paradigms in economics, London: Routledge, 2003.

121) C. Antonelli, "The digital divide: Understanding the economics of new information and communication technology in the global economy", Information Economics and Policy (15) 173-199, 2003

122) C. Antonelli, "The Economics of Innovation New Technologies and Structural Change" London: Routledge, 2003. Recensito in **Research Policy** 33: 842-844, **Revue d'Economie Industrielle** 102:83, **Journal of Economic Behavior and Organization**

123) Bonazzi, G. and Antonelli, C, "To make or to sell? The case of in-house outsourcing at FIAT-Auto", Organization Studies, (24), 575-594, 2003.

124) Antonelli, C. "Knowledge complementarity and fungability: Implications for regional strategy", Regional Studies (39) 595-606, 2003.

125) C. Antonelli, "Shifting heuristics in the economics of innovation: Manna trajectories and networks", in Conceicao, P., Heitor, M. V. and Lundvall, B.A. (eds.), Innovation, Competence Building and Social Cohesion in Europe, Edward Elgar, Cheltenham, 2003.

+++++

126) C. Antonelli and P.P. Patrucco, "I sentieri dell'innovazione", Edizioni della Fondazione Giovanni Agnelli, Torino, 2004.

127) C. Antonelli, "The governance of localized technological knowledge and the evolution of intellectual property rights", in Colombatto, Enrico (ed.) The Elgar Companion to Property Rights, Edward Elgar, Cheltenham, 2004.

128) C. Antonelli, "Localized product innovation. The role of proximity in the Lancastrian product space", Information Economics and Policy, (16), 2004 255-274.

+++++

129) C. Antonelli, "Una strategia Italiana verso l'economia della conoscenza", in Amendola, M., C. Antonelli, Trigilia, C. (eds.), Per lo sviluppo economico:

**Processi innovativi e assetti territoriali**, Il Mulino per la Fondazione Di Vittorio, Bologna, 2005.

- 130) C. Antonelli, “The economics of governance: The role of localized technological change in the interdependence among transaction, coordination and production” in Green, K., Miozzo, M. and Dewick, P. (eds.), **Technology Knowledge and the Firm: Implications for Strategy and Industrial Change**, Edward Elgar, Cheltenham, 2005, pp.1-16.
- 131) C. Antonelli, “Models of knowledge and systems of governance”, **Journal of Institutional Economics** (1), 51-73, 2005
- 132) C. Antonelli, “Il cammino della complessità”, Prefazione all’edizione italiana di Mark Taylor, **Il momento della complessità**, Codice, Torino, 2005. (The moment of complexity, emerging network culture, The University of Chicago Press, Chicago, 2003).
- 133) C. Antonelli, “Localized technological change and factor markets: Constraints and inducements to innovation”, **Structural Change and Economic Dynamics** (17), 2006, 224-247.
- 134) C. Antonelli, “Path dependence, localized technological change and the quest for dynamic efficiency”, in Antonelli, C., Foray, D., Hall, B. e Steinmueller, E. (eds.), **Frontiers in the economics of innovation. Essays in honor of Paul David**, Edward Elgar, Cheltenham, 2006
- 135) C. Antonelli, “The governance of technological knowledge: To use or to sell” in Sundbo, Jon (ed.) **Innovation anthology**, Palgrave, London, 2006.
- 136) C. Antonelli e Patrucco, P.P., “Broadband in Italy”, in Fransman, M. (ed.) **The economics of broadband**, Stanford University Press, 2006.
- 137) C. Antonelli, “Diffusion as a process of creative adoption”, **Journal of Technology Transfer** (31), 211-226, 2006.
- 138) C. Antonelli, “The governance of localized knowledge. An information economics approach to the economics of knowledge”, **Industry and Innovation** 2006, (13), 227-261.

\*\*\*\*\*

- 139) C. Antonelli, Barbiellini Amidei, F., "Innovazione tecnologica e mutamento strutturale nell'industria italiana nel secondo dopoguerra", in Antonelli, C. et al. **Innovazione tecnologica e sviluppo industriale nel secondo dopoguerra**, Collana Storica della Banca d'Italia, Laterza, Roma, 2007, pp. 3-358.
- 140) C. Antonelli, "Localized technological change", in Hanusch, H. e Pyka, A. (eds.), **The Elgar Companion to Neo-Schumpeterian Economics**, Edward Elgar, Cheltenham, 2007.
- 141) C. Antonelli, "The system dynamics of collective knowledge: From gradualism and saltationism to punctuated change", **Journal of Economic and Organization Behavior**, 2007, (62), 215-236.
- 142) C. Antonelli , "Sinistra e riformismo economico: l'alternativa liberalsocialista", **Il Mulino**, 2007, (56) 258-267,
- 143) C. Antonelli, "Knowledge as an essential facility", **Journal of Evolutionary Economics**, , (17) 451-471, 2007.
- \*\*\*\*\*
- 144) C. Antonelli, "The new economics of the university: A knowledge governance approach", **Journal of Technology Transfer**, 2008, (33) 1-22.
- (145) C. Antonelli and Calderini, M., "The governance of knowledge compositeness and technological performance: The case of the automotive industry in Europe", **Economics of Innovation and New Technology** 2008, (17) 23-41.
- 146) C. Antonelli and Teubal, M., "Venture capitalism, knowledge governance and technological change", **Journal of Institutional Economics** 2008, (4) 163-182.
- 147) C. Antonelli, "**Localized technological change: Towards the economics of complexity**" Routledge, London, 2008.
- 148) C. Antonelli, (ed.), **The economics of innovation: Critical concepts in economics**, Routledge, London, 2008.

- 149) C. Antonelli, Patrucco, P.P., Quatraro, F. "The governance of localized knowledge externalities " **International Review of Applied Economics** 22, 479-498, 2008.
- 150) C. Antonelli, Patrucco P.P. and Quatraro F., "The economics of new information and communication technologies", in Donsbach, W. (ed.) **The international encyclopedia of communication**, Oxford, Balckwell, 2008.
- 151) C. Antonelli, "Pecuniary knowledge externalities: The convergence of directed technological change and the emergence of innovation systems" **Industrial and Corporate Change**, 17, 1049-1070, 2008.
- 152) Antonelli, C., Patrucco, P. P., Quatraro, F., "La grande onda Schumpeteriana alla fine del XX secolo. Transizioni tecnologiche e modelli economici nel caso italiano", in Berta, G. (ed.), **Una trasformazione in atto: Il Nord Italia**, Milano, Annali della Fondazione Giangiacomo Feltrinelli, 2008.
- 153) C. Antonelli, Patrucco P.P. and Quatraro F., "The economics of new information and communication technologies", in Donsbach, W. (ed.) **The International Encyclopedia of Communication**, Oxford, Balckwell, 2008.
- 154) C. Antonelli, Review of Fransman, M., *The new ICT ecosystem. Implications for Europe*, Kokoro, Edinburgh, 2008. **Research Policy** 37, 1413-1414, 2008.
- 155) C. Antonelli, "The trade-off of intellectual property rights reconsidered", **Economica** 10, 15-27.
- \*\*\*\*\*
- 156) C. Antonelli, "Appunti per una lettura schumpeteriana della crisi e implicazioni di politica economica", **Quaderni di Rassegna Sindacale** 10, 75-104, 2009.
- 157) C. Antonelli, "Localized appropriability: Pecuniary externalities in knowledge exploitation", **Technology Analysis and Strategic Management** 21, 727-742, 2009.
- 158) C. Antonelli, Link, A.N., Metcalfe, J.S. (eds.), **Technology infrastructure**, Routledge, London, 2009.

159) C. Antonelli, “Le grandi scelte nelle telecomunicazioni”, Italianieuropei 1, pp.38-48, 2009.

160) C. Antonelli, “La politica economica delle coalizioni per progettare il futuro e guidare la crescita” Argomenti Umani 2, 41-66, 2009.

161) C. Antonelli, “The economics of innovation: From the classical legacies to the economics of complexity”, Economics of Innovation and New Technology 18, 611–646, 2009.

\*\*\*\*\*

163) C. Antonelli, Krafft, J., Quatraro, F. (2010), “Recombinant knowledge and growth: The case of ICTs”, Structural Change and Economic Dynamics 21, 50-69.

164) C. Antonelli, Patrucco, P.P., Rossi, F. (2010), “The economics of knowledge interaction and the changing role of universities” in Gallouji, F. and Djellai, F. (eds.), Handbook of Innovation and Services, Edward Elgar, Cheltenham, pp. 153-177.

165) C. Antonelli, Teubal, M., (2010), “Venture capital as a mechanism for knowledge governance” in Viale, R., Etzkowitz, H. (eds.) The Capitalization of Knowledge, Edward Elgar, Cheltenham, pp. 98-120.

166) C. Antonelli, (2010), “Un piano di politica economica per fronteggiare una depressione schumpeteriana”, in Pennacchi, L. (a cura di), Pubblico privato comune: Lezioni dalla crisi globale, Ediesse, Roma, pp. 211-226.

167) C. Antonelli, (2010), “From population thinking to organization thinking: Coalitions for innovation”, Regional Studies, 44, 513–518.

168) C. Antonelli, (2010), “The economic complexity of technology and innovation”, Regional Studies, 44, 801-806.

169) C. Antonelli, (2010), “Pecuniary externalities and the localized generation of technological knowledge” in Martin, R. and Boschma, R. (eds.), The Handbook of Evolutionary Economic Geography, Edward Elgar, Cheltenham, pp. 162-181.

170) C. Antonelli, (2010), “La mossa del cavallo” Rosenberg&Sellier, Torino.

171) C. Antonelli and Quatraro, F., (2010), “The effects of biased technological change on total factor productivity. Empirical evidence from a sample of OECD countries”, Journal of Technology Transfer, 35, 361-383

---

172) C. Antonelli, Patrucco, P.P., Quatraro, F. (2011), “Productivity growth and pecuniary knowledge externalities: An empirical analysis of agglomeration economies in European regions”, Economic Geography 87, 23-50

173) C. Antonelli, C. Franzoni, A. Geuna, (2011), “The organization, economics and policy of scientific research. What we do know and what we don’t know. A research agenda”, Industrial and Corporate Change 20, 201-213.

174) C.Antonelli, Ferrari, G.L.,(2011)”Innovation as an emerging system property: An agent based model” Journal of Artificial Societies and Social Simulation 14 (2) no page

175) C.Antonelli, Colombelli, A., (2011) “The generation and exploitation of technological change: Market value and total factor productivity”, Journal of Technology Transfer, 36, 353–382.

176) C. Antonelli, Barbiellini Amidei, F. (2011), “The Dynamics of Knowledge Externalities: Localized Technological Change in Italy” Edward Elgar, Cheltenham, pp.1-217, Recensito da Christian Le Bas in Revue de la Regulation (10) 2011, Stefano Usai in Regional Studies 46 (2012), Francesco Crespi, Journal of Evolutionary Economics.

177) C. Antonelli (ed.) (2011), “Handbook on the Economic Complexity of Technological Change” Edward Elgar, Cheltenham, pp.1-560. Recensito da Manfred Paier in Journal of Artificial Societies and Social Simulation 15(1) 2012.

178) C. Antonelli (2011), “The economic complexity of technological change: Knowledge interactions and path dependence” in Antonelli, C. (ed.) Handbook on the Economic Complexity of Technological Change” Edward Elgar, Cheltenham, pp.1-62.

180) C. Antonelli, Scellato, G. (2011), “Out of equilibrium, profits and innovation”, Economics of Innovation and New Technology, 20, 405-421.

181) Antonelli, C., Fassio, C. (2011), “Globalization and innovation in advanced economies” in Libecap, G. (ed.) Advances in the Study of Entrepreneurship, Innovation and Economic Growth. Volume 22 Emerald Publishing, Cambridge, pp. 21-46.

182) Antonelli, C., Colombelli, A. (2011), “Globalization and directed technological change at the firm level. The European evidence” in Libecap, G. (ed.) Advances in the Study of Entrepreneurship, Innovation and Economic Growth. Volume 22 Emerald Publishing, Cambridge, pp.1-20

183) C. Antonelli, C. Franzoni, A. Geuna (2011), “The contributions of economics to a science of science policy” in Colombo, M.G., Grilli, L., Piscitello, L., Rossi La Mastra, C. (eds.), Science and Innovation Policy for the New Knowledge Economy, PRIME Series on Research and Innovation Policy in Europe, Edward Elgar, Cheltenham, ISBN/ISSN: 978 1 84844 840 7, pp. 19 - 36.

\*\*\*\*\*

184) Antonelli, C. (2012), “Technological congruence and productivity growth” in Andersson, M., Johansson, B., Karlsson, C., Lööf, H., (eds.), Innovation and Growth - From R&D strategies of innovating firms to economy-wide technological change, Oxford University Press, Oxford, pp. 209 – 232.

185) Antonelli, C., Teubal, M. (2012), “From the corporation to venture capitalism: New surrogate markets for knowledge and innovation-led economic growth”, in Dietrich, M., Krafft J. (eds.), Handbook on the economics and theory of the firm, Edward Elgar, Cheltenham, pp. 545-560.

186) Antonelli, C., Crespi, F. (2012), “Matthew effects and R&D subsidies: Knowledge cumulability in high-tech and low-tech industries”, Giornale degli Economisti e Annali di Economia 71, 5-31.

---

187) Antonelli, C., Crespi, F., Scellato, G., “Inside innovation persistence: New evidence from Italian micro-data” Structural Change and Economic Dynamics, **forthcoming**.

188) Antonelli, C., Quatraro F., “Localized technological change and efficiency wages: The evidence across European regions”, Regional Studies, **forthcoming**.

- 189) Antonelli, C., Scellato, G., "Complexity and innovation: Social interactions and firm level productivity growth", Journal of Evolutionary Economics, **forthcoming**.
- 190) Antonelli, C., "Knowledge governance, pecuniary knowledge externalities and total factor productivity growth", Economic Development Quarterly, **forthcoming**.
- 191) Antonelli, C., Crespi, F., Scellato, G., "Internal and external factors in innovation persistence" Economics of Innovation and New Technology, **forthcoming**.
- 192) Antonelli, C., Crespi, F., The "Matthew Effect" in R&D public subsidies: The case of Italy, Technological Forecasting and Social Change, **forthcoming**.
- 193) Antonelli, C., "Compulsory licensing: The foundations of an institutional innovation", WIPO Journal, **forthcoming**
- 194) Antonelli, C., Fassio, C., "The heterogeneity of knowledge: University-industry relations and the evolution of knowledge governance. The Italian evidence in the first part of the xx century" Science and Public Policy, **forthcoming**.
- .....
- 195) Antonelli, C., "Induced technological change and the search for technological congruence", WP Laboratorio di Economia dell'Innovazione Franco Momigliano, Dipartimento di Economia "S. Cognetti de Martiis, Università di Torino & BRICK Working Papers, Collegio Carlo Alberto 2012.
- 196) Antonelli, C., "The slow growth of the knowledge economy: Globalization and induced technological change" WP Laboratorio di Economia dell'Innovazione Franco Momigliano, Dipartimento di Economia "S. Cognetti de Martiis, Università di Torino & BRICK Working Papers Collegio Carlo Alberto, 2012.
- 197) Antonelli, C., Crespi, F., Scellato, G., "Path dependence in innovation persistence", WP Laboratorio di Economia dell'Innovazione Franco Momigliano, Dipartimento di Economia "S. Cognetti de Martiis, Università di Torino & BRICK Working Papers Collegio Carlo Alberto, 2012.

- 198) Antonelli, C., Colombelli, A., “Knowledge cumulability and complementarity: Internal and external knowledge stocks in the knowledge generation function”, WP Laboratorio di Economia dell’Innovazione Franco Momigliano, Dipartimento di Economia “S. Cognetti de Martiis, Università di Torino & BRICK Working Papers Collegio Carlo Alberto, 2012.
- 199) Antonelli, C., Fassio, C., “The role of external knowledge in the introduction of product and process innovations”, WP Laboratorio di Economia dell’Innovazione Franco Momigliano, Dipartimento di Economia “S. Cognetti de Martiis, Università di Torino & BRICK Working Papers Collegio Carlo Alberto, 2012.
- 200) Antonelli, C., Ferrari, G.L., ”Innovation as an emerging system property: An agent based model” Industrial and Corporate Change
- 201) Antonelli, C., Fassio, C., “Academic knowledge and economic growth: Are scientific fields all alike?” WP Laboratorio di Economia dell’Innovazione Franco Momigliano, Dipartimento di Economia “S. Cognetti de Martiis, Università di Torino & BRICK Working Papers Collegio Carlo Alberto, 2012.
- 202) Antonelli, C., Crepax, N., Fassio, C., “The cliometrics of academic chairs. Scientific knowledge and economic growth, the evidence across Italian regions 1900-1959”, WP Laboratorio di Economia dell’Innovazione Franco Momigliano, Dipartimento di Economia “S. Cognetti de Martiis, Università di Torino & BRICK Working Papers Collegio Carlo Alberto, 2012.
- 203) Antonelli, C., Barbiellini Amidei F., Fassio, C., “The mechanisms of knowledge governance: State owned corporations and Italian economic growth, 1950-1994”, WP Laboratorio di Economia dell’Innovazione Franco Momigliano, Dipartimento di Economia “S. Cognetti de Martiis, Università di Torino & BRICK Working Papers Collegio Carlo Alberto, 2012.
- 204) Antonelli, C., Scellato, G., “The generation of knowledge and the direction of technological change. The effects on total factor productivity at the firm level”, WP Laboratorio di Economia dell’Innovazione Franco Momigliano, Dipartimento di Economia “S. Cognetti de Martiis, Università di Torino & BRICK Working Papers Collegio Carlo Alberto, 2012.
- 205) Antonelli, C., Fassio, C., “The economics of the light economy. Globalization, skill biased technological change and slow growth” WP Laboratorio di Economia dell’Innovazione Franco Momigliano, Dipartimento di

Economia “S. Cognetti de Martiis, Università di Torino & BRICK Working Papers Collegio Carlo Alberto, 2012.

206) Antonelli, C., Gehringer, A. “Knowledge externalities and demand pull: The European evidence”, WP Laboratorio di Economia dell’Innovazione Franco Momigliano, Dipartimento di Economia “S. Cognetti de Martiis, Università di Torino & BRICK Working Papers, Collegio Carlo Alberto 2012