

LUCIO BIGGIERO

Curriculum Vitae

Affiliation:

Università dell'Aquila (University of L'Aquila)

Dipartimento di Ingegneria Industriale e dell'Informazione e di Economia (DIIE) (Department of Industrial Engineering, Information and Economics)

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Position:

Full professor of *Organization Theory and Design* at University of L'Aquila.

Professor of *Design and Management of Inter-Organizational Networks* at University of L'Aquila.

Currently, member of the Doctoral course in "Energy & Environment" by the University "La Sapienza" (Rome).

In the Doctoral course of the Department of Industrial Engineering, Information and Economics of the University of L'Aquila (Italy), he is responsible of a seminars cycle on epistemology and methodology of research.

Since March 2016 **CEO and founder of Net-Research srl** (www.net-research.it), an academic spin-off aimed at bringing into the business world advanced relational methodologies, like Social Network Analysis and Agent-Based Simulation Modeling.

He has been teaching *Organization Theory and Design, Organizational Behaviour, Epistemology and Methodology of Social Research* in the following Doctoral courses:

Economia e Organizzazione delle Imprese (*Economics and Management of Firms*), by Università degli Studi di Roma "Tor Vergata"

Organizzazione, Tecnologia e Sviluppo delle Risorse Umane (*Organization, Technology and Development of Human Resources*), by Università degli Studi del Molise

Psicologia Cognitiva, Psicofisiologia e Personalità (*Cognitive Psychology, Psychophysiology and Personality*), by Università degli Studi di Roma "La Sapienza".

For many years he has been teaching *Organization Theory and Design, Local Production Systems, Knowledge Management* in the following **Masters**:

Master in Business Administration, by LUISS University (Rome)

Master in Experts of International Trade and Management, by ICE (Italian Institute for Foreign Trade)

Master in Human Resource Management, by University of "La Sapienza" (Rome).

During the last years he give a course of 40h on *Inter-firm networks and industrial clusters* in the **Master** on Management and internationalization of inter-firm networks, held in the University of Chieti-Pescara (Italy).

Member of the **Board of Directors** and of the **Scientific Board** of **CIRPS** (Interuniversity Research Centre on Sustainable Development) (www.cirps.it). CIRPS is an Inter-University Centre through research, training, services and direct intervention on the territory aims to disseminate the principles internationally recognized as necessary to ensure sustainable development.

Director of the MEFOR Thematic Section of CIRPS, which aims to apply to socio-economic and environmental topics the following advanced methodologies: outranking methods of multicriteria decision making; social network analysis; dynamic network analysis (NK models); agent-based simulation models.

Member of the **Scientific Board** of **ECONA** (InterUniversity Research Center on Cognitive Computation in Artificial and Natural Systems) <https://web.uniroma1.it/econa/>, which collects 12 Italian universities in various research areas, among which: Psychology of cognitive processes, Neural Networks, Non-linear Dynamics.

Member of the Experts' Group of MIUR (www.miur.it) (Ministry of Education University & Research).

Member of the Board of Directors of IASS (Italian Association for Sustainability Science), whose aim is to overcome the limitations of traditional fragmented academic disciplines in addressing the pre-eminent issue of the 21st century: building a sustainable society.

Past memberships:

AIDEA (Italian Association of Management Studies)
 AIEMS (Italian Association of Epistemology and Systems Methodology)
 AiIG (Italian Association of Engineering Management and Economics)
 AIRS (Italian Association for Systems Research)
 AOM (Academy of Management)
 BAM (British Academy of Management)
 CIRPS (Interuniversity Research Centre on Sustainable Development)
 EGOS (European Group of Organization Studies)
 ESSA (European Social Simulation Association)
 EURAM (European Academy of Management)
 ETSG (European Trade Study Group)
 IASS (Italian Association for Sustainability Science)
 ICORE (International Conference on Reputation)
 INSNA (International Network for Social Network Analysis)
 ISA (International Sociological Association)
 RC51 (Research Committee on Socio-cybernetics)
 SDS (Systems Dynamics Society)
 WINIR (World Interdisciplinary Network for Institutional Research)

Past Fields of Empirical Studies:

biomedicals, packaging machines, energy saving, oil.

Recent Fields of Empirical Studies:

Aerospace, telecommunication.

Main fields of scientific interest:

Theory of Organization Design and Change

Coordination Theory

Innovation Diffusion in Inter-firm networks and in Industrial Clusters

Knowledge Creation and Transfer in R&D Collaboration Networks

(Inter-)Organizational Networks

Local Production Systems

Organizational Impact of Socio-cognitive Factors

Epistemology and Methodology of Organization Science

Formal Network Methodologies: Social Network Analysis, Boolean networks (NK-FL models), Agent-based Simulation Models

Spoken Languages:

English (fluently)

German (intermediate)

Russian (beginner)

Previous and current involvement in EU projects

TACIS Project “Training and Developing Management and Economic Knowledge in Russia”, as teacher.

TSER Project (FP4) “The Self-organization of the European Information Society”, as coordinator of the Task 5.2

PHARE Project “Participation in EU Networks: Preparation of Czech SMEs for EU Accession”, as consultant of the project coordinator.

IST-CPA5 Project (FP5) “Organizational Consequences of Email Introduction, Adoption and Diffusion”, as coordinator of the whole project.

RTD-IHP Project (FP5) “Industrial Districts’ Re-location Processes: Identifying Policies in the Perspective of EU Enlargement”, as coordinator of the Luiss partnership.

Participation to the following Italian Research Projects:

PRIN 2001-2003 on “Virtual Enterprise”, as coordinator of the research unit of the University of l’Aquila.

FIRB 2005-2008 on “Artificial societies for competition and collaboration: knowledge networks, corporate reputation and firm clusters. Building a user-enabling simulator”, as coordinator of the research unit of the University of l’Aquila.

PRIN 2006-2007 on “Territorial benchmarking: specific tools for the analysis of the performances and the competitiveness of local production systems”, as coordinator of the research unit of the University of l’Aquila.

Reviewer for the following journals:

Entrepreneurship & Regional Development

Entrepreneurship Theory & Practice

European Management Review

Human Systems Management

Journal of Artificial Societies and Social Simulation

Journal of Business Research

Journal of Management and Governance

Journal of Management Studies

Journal of Small Business Management
 Nonlinear Dynamics, Psychology, and Life Sciences
 Organization Studies
 Research Policy
 Technology Analysis & Strategic Management

Author Impact Analysis (according to Harzing's *Publish or Perish methodology*, www.harzing.com)
 Papers: 93; Cites/paper: 14.47; **h-index: 16**; Citations: 1346; Cites/year: 44.87; **g-index: 36**; Years: 30;
 Papers/author: 89.50; hc-index: 9; Cites/year: 40.71; hI-norm: 14; hI, annual 0.45.

Publications in English:

1. 2017. Looking at the skeleton of university research performance. A pilot study on an Italian university. *Procedia Computer Science*. 106: 66 – 73.
2. 2016a. Preface to Biggiero L. et al. (Eds.) *Relational methodologies and epistemology in economics and management sciences* (i-ix). Hershey, PA (US): IGI Global.
3. 2016b. Conclusions: Methodological pluralism and epistemology between and beyond relational methods. In Biggiero L. et al. (Eds.) *Relational methodologies and epistemology in economics and management sciences* (pp. 397-411). Hershey, PA (US): IGI Global.
4. 2016c. Network analysis for economics and management studies. In Biggiero L. et al. (Eds.) *Relational methodologies and epistemology in economics and management sciences* (pp. 1-60). Hershey, PA (US): IGI Global. DOI: 10.4018/978-1-4666-9770-6.ch001.
5. 2016d. NK simulation modeling. In Biggiero L. et al. (Eds.) *Relational methodologies and epistemology in economics and management sciences* (pp. 62-100). Hershey, PA (US): IGI Global. DOI: 10.4018/978-1-4666-9770-6.ch002.
6. 2016e. (co-authored with P. Angelini) A comparison between international trade and R&D collaboration networks in the European aerospace sector. In Biggiero L. et al. (Eds.) *Relational methodologies and epistemology in economics and management sciences* (pp. 141-171). Hershey, PA (US): IGI Global. DOI: 10.4018/978-1-4666-9770-6.ch005.
7. 2016f. (co-authored with M. Basevi) An international trade comparison between two supposedly different sectors: An investigation on inter-sectoral diversity and sectoral trade stability. In Biggiero L. et al. (Eds.) *Relational methodologies and epistemology in economics and management sciences* (pp. 172-205). Hershey, PA (US): IGI Global. DOI: 10.4018/978-1-4666-9770-6.ch006.
8. 2016g. (co-authored with M. Basevi) Knowledge creation, growth and transfer within industrial networks of practices: the role of absorptive capacity and direct centrality. In Biggiero L. et al. (Eds.) *Relational methodologies and epistemology in economics and management sciences* (pp. 313-347). Hershey, PA (US): IGI Global. DOI: 10.4018/978-1-4666-9770-6.ch012.
9. 2016h. (co-authored with A. Mastrogiorgio) A methodology to measure the hierarchical degree of formal organizations. In Biggiero L. et al. (Eds.) *Relational methodologies and epistemology in economics and management sciences* (pp. 206-231). Hershey, PA (US): IGI Global. DOI: 10.4018/978-1-4666-9770-6.ch007.
10. 2016i. (co-authored with E. Sevi) On the relationships between connection modes and workgroup performance: the moderating role of group size and task complexity. In Biggiero L. et al. (Eds.) *Relational methodologies and epistemology in economics and management sciences* (pp. 348-372). Hershey, PA (US): IGI Global. DOI: 10.4018/978-1-4666-9770-6.ch013.
11. 2016j. (co-authored with M. Valente) The role of knowledge heterogeneity in industrial clusters knowledge dynamics: an application of the Boolean network simulation modeling. In Biggiero

- L. et al. (Eds.) *Relational methodologies and epistemology in economics and management sciences* (pp. 257-282). Hershey, PA (US): IGI Global. DOI: 10.4018/978-1-4666-9770-6.ch009.
12. 2015. (co-authored with P. Angelini) Hunting scale-free properties in R&D collaboration networks: self-organization, power-law and policy issues in the European aerospace research area. *Technological Forecasting and Social Change*. 94: 21-43.
 13. 2012a. (co-authored with M. Basevi) On the dynamics of knowledge transfer in industrial clusters: an application of the Boolean network modeling, in Minati G., Pessa E. & Abram M. (Eds.) *Methods, models, simulations and approaches towards a general theory of change*. World Scientific (pp. 429-442). DOI: 10.1142/9789814383332_0030
 14. 2012b. Practice vs. possession: epistemological implications on the nature of organizational knowledge and cognition. In M. Mora, O. Gelman, A. Steenkamp and M.S. Raisinghani (Eds.) *Research methodologies, innovations and philosophies in software systems engineering and information systems*. Hershey, PA (US): IGI Global (pp. 82-105). DOI: 10.4018/978-1-4666-0179-6.ch005. ISBN: 978-1-4666-0179-6.
 15. 2011a. Knowledge redundancy, environmental shocks, and agents' opportunism. In Józefczyk J. and Orski D. (Eds.) *Knowledge-based intelligent system advancements: systemic and cybernetic approaches. Advances in Artificial Intelligence Technologies (AAIT)*. Hershey (Penn, USA): IGI Global Publishers (pp. 252-281). DOI:10.4018/978-1-61692-811-7.ch013. ISBN: 978-1-61692-811-7.
 16. 2011b. (co-authored with Biava, P.M., Basevi, M., Borgonovo, A., Borgonovo, E. and Burigana F.) Cancer cell reprogramming, stem cell differentiation stage factors: an agent-based model to optimize cancer treatment. *Current Pharmaceutical Biotechnology*. 12(2). 243-253.
 17. 2010a. (co-authored with A. Sammarra) Does geographical proximity enhance knowledge exchange? The case of the aerospace industrial cluster of centre Italy. *International Journal of Technology Transfer & Commercialization*. 9(4): 283-305.
 18. 2010b. Exploration modes and its impact on industry profitability. The differentiated effects of internal and external ways to access market knowledge, in Faggini M. and Vinci P. (Eds.) *Decision theory and choice: a complexity approach*. Berlin: Springer (pp. 83-116).
 19. 2010c. (co-authored with A. Sammarra, C. Muzzi and R. Dandi) The effect of e-mail use and adoption on organizational participation: the case of a public administration. *Human Systems Management*. 29(1): 27-39.
 20. 2009a. (co-authored with E. Sevi) Opportunism by cheating and its effects on industry profitability. The CIOPS model. *Computational & Mathematical Organization Theory*. 15: 191-236.
 21. 2009b. (co-authored with E. Sevi) The COD model: simulating workgroup performance, in Minati G., Pessa E. & Abram M. (Eds.) *Processes of emergence of systems and systems properties. Towards a general theory of emergence* (pp. 113-134). Singapore: World Scientific.
 22. 2009c. Organizations as cognitive systems: is knowledge an emergent property of information networks? In Minati G., Pessa E. & Abram M. (Eds.) *Processes of emergence of systems and systems properties. Towards a general theory of emergence* (pp. 697-712). Singapore: World Scientific.
 23. 2008a. (co-authored with A. Sammarra) Heterogeneity and specificity of inter-firm knowledge flows in innovation networks. *Journal of Management Studies*. 45(4): 800-829.
 24. 2008b. (co-authored with E. Sevi) The effects of various forms of inter-organizational trust on competitiveness, in Thoben, K.D., Pawar, K.S. & Goncalves R. (Eds.) *14th International conference on Concurrent Enterprising: A new wave of Innovation in Collaborative Networks*. University of Nottingham (pp. 171-178).

25. 2008c. (co-authored with E. Sevi) Effects of task interdependence and bounded rationality on workgroup performance. In Trapp R. (Ed.) *Cybernetics and Systems 2008*. Austrian Society for Cybernetic Studies, Vienna. ISBN: 978-3-85206-175-7.
26. 2007. (co-authored with D. Laise) On choosing governance structures: theoretical and methodological issues. *Human Systems Management*. 26: 69-84.
27. 2006a. System identity and autonomy of an international research team: a case study in self-observation. In Minati G., Pessa E. & Abram M. (Eds.) *Systemics of Emergence: Research and Development* (pp. 551-568). NY: Springer.
28. 2006b. Industrial and knowledge relocation strategies under the challenges of globalization and digitization: the move of small and medium enterprises among territorial systems. *Entrepreneurship & Regional Development*. 18(6): 1-29.
29. 2006c. Editor of the Special Issue on Industrial Districts' Relocation Processes: Evolutionary and Policy Issues. *Entrepreneurship & Regional Development*. 18(6).
30. 2005. (co-authored with G. Iazzolino & D. Laise) On multicriteria business performance measurement. *The Journal of Financial Decision Making*. 1 (2): 37-56.
31. 2004. (co-authored with A. Sammarra, C. Muzzi & R. Dandi) Organizational consequences of e-mail adoption and diffusion: theoretical issues and empirical results. In P. Cunningham & M. Cunningham (Eds.) *eAdoption and the Knowledge Economy: Issues, Applications, Case Studies*. (pp. 134-140) Amsterdam: IOS Press.
32. 2003a. (co-authored with D. Laise) Choosing and comparing organizational structures: a multicriteria methodology. *Human Systems Management*. 30(1): 13-23.
33. 2003b. (co-authored with D. Laise) Outranking methods. choosing and evaluating technology policy: a multicriteria approach. *Science & Public Policy*. 30(1): 13-23.
34. 2003c. (co-authored with A. Sammarra) Social identity and identification processes. enriching theoretical tools to study industrial districts. In F. Belussi, G. Gottardi e E. Rullani (Eds.) *The Technological Evolution of Industrial Districts*. (pp. 205-232) Amsterdam: Kluwer.
35. 2003d. (co-authored with A. Sammarra) The Biomedical Valley: Structural, relational, and social psychological aspects. In F. Belussi, G. Gottardi e E. Rullani (Eds.) *The Technological Evolution of Industrial Districts*. (pp. 367-388) Amsterdam: Kluwer.
36. 2002. The location of multinationals in industrial districts: knowledge transfer in biomedical. *Journal of Technology Transfer*. 27: 111-122.
37. 2001a. Are firms autopoietic systems? In G. van der Zouwen & F. Geyer (Eds.) *Sociocybernetics: complexity, autopoiesis, and observation of social systems*. pp. 125-140. Westport (CT): Greenwood.
38. 2001b. Sources of complexity in human systems. *Nonlinear Dynamics, Psychology, and Life Sciences*. 5(1): 3-19.
39. 2001c. (co-authored with A. Sammarra) Identity and identification in industrial districts. *Journal of Management and Governance*. 5(1): 61-82.
40. 2001d. Self-organizing processes in building entrepreneurial networks: a theoretical and empirical investigation. *Human Systems Management*. 20: 209-222.
41. 2000a. Small business networks. In M. Zeleny (Ed.) *The IEBM Handbook of information technology in business* (pp. 249-257). London: Thomson.
42. 2000b. Complexity and organization. In M. Zeleny (Ed.) *The IEBM Handbook of information technology in business* (pp. 291-300). London: Thomson.
43. 2000c. (co-authored with H.J.L. Voets) Globalization and self-organization: the consequences of decentralization for industrial organization. *International Review of Sociology*. 1: 73-82.
44. 1999a. Markets, hierarchies, networks, districts: a cybernetic approach. *Human Systems Management*, 18: 71-86.

45. 1999b. (co-authored with Alessia Sammarra) The evolution of Italian industry: a global outline. *Economia, Società, Istituzioni*. 2: 237-273.
46. 1999c. The need for participation in the post-fordist age. In S. Schrujjer (Eds.) *Multi-organizational partnerships and cooperative strategy* (pp. 75-80). Dutch UP.
47. 1999d. Co-editor of the Special Issue "Industrial Districts in Italy" of *Human Systems Management*.
48. 1998a. Italian industrial districts: a triple helix pattern of problem solving. *Industry & Higher Education*, Special Issue, August. 227-234.
49. 1998b. Complexity and self-organization: consequences for capitalistic industrial organization, in G. Minati (Eds.) *First Italian Conference on Systemics*. Milano: Apogeo. 185-198.
50. 1997. Managerial action and observation: a view of relational complexity. *Systemica*. 12: 23-37; reprinted in *LUISS International Journal*, 2000.

Presentations in international conferences

1. 2015a. Network-based methodologies in economics. AIRS Workshop on Network-based methodologies in economics, management, and social sciences. Rome, 11th December, Department of Economic and social sciences, La Sapienza University.
2. 2013a. (co-authored with P. Angelini) Community detection and analysis in the European aerospace research area networks. ARS13 International Workshop on "Networks in space and time: Models, Data collection and Applications", Rome, July.
3. 2013b. (co-authored with P. Angelini) Intra- and inter-regional knowledge flows in European R&D collaboration networks. T2S Conference on Technology Transfer. Bergamo, November.
4. 2013c. Is topological invariance a reasonable assumption for studying social systems too? Methodological remarks on the application of NK simulation modeling. 26th European Conference on Operational Research (EURO XXVI). Rome, July.
5. 2011a. (co-authored with A. Mastrogiorgio) Firm's absorptive capacity and industrial clusters dynamics. ARS11 International Workshop on Collaboration Networks, Innovation Networks and Knowledge Diffusion. Salerno (Italy).
6. 2011b. (co-authored with P. Angelini) The hierarchical structure of international collaboration networks. International Workshop on Collaboration Networks, Innovation Networks and Knowledge Diffusion. Salerno (Italy).
7. 2011c. Is topological invariance an acceptable compression of complexity? Reflexions on (self-)organization in Boolean network and autopoiesis. 10th International Conference of Sociocybernetics on "Sociocybernetics and the increasing complexity of social life". Krakow, July.
8. 2011d. (co-authored with A. Mastrogiorgio) On the nature of exaptation and the complex co-generation of objects and functions. 10th International Conference of Sociocybernetics on "Sociocybernetics and the increasing complexity of social life". Krakow, July.
9. 2010a. (co-authored with M. Basevi) The Transformation of World Trade Patterns: A multi-methodological assessment of similarity during a decade. Sunbelt XXX Conference, Riva del Garda, Italy, July.
10. 2010b. (co-authored with M. Basevi) Reputation evaluations within inter-organizational networks. Grouping firms in terms of similar reputational position. Sunbelt XXX Conference, Riva del Garda, Italy, July.
11. 2010c. (co-authored with M. Basevi) The dynamics of knowledge transfer in industrial clusters. An application of Boolean network modeling. AIRS Congress, Fermo, Italy, October.
12. 2009. Testing the gravity model through network analysis. ETSG, Rome, September.

13. 2008a. (co-authored with E. Sevi) The effects of various forms of inter-organizational trust on competitiveness. ICE' 14th International Conference On Concurrent Enterprising, Lisbon – Portugal, 23-25 June.
14. 2008b. On the effects of exploration and experimentation capacity on industry competitiveness: results from an agent-based simulation model. New Economic Windows 2008: Decision Theory and Choice: a complexity approach. University of Salerno, Italy, 19-20-21 June.
15. 2008c. Does email communication increase participation in decision making in organizations? First ISA Forum of Sociology. Barcelona, Spain, September 5-8.
16. 2008d. Knowledge sources for cluster firms. Evidence from six Western European industrial clusters. First ISA Forum of Sociology. Barcelona, Spain, September 5-8.
17. 2008d. On the relative advantages of efficiency and redundancy in facing with environmental shocks and the moderating effects of agents' opportunism. 14th International Congress of Cybernetics and Systems of WOSC. Wroclaw, Poland, September 9-12.
18. 2008e. (co-authored with E. Sevi) The effects of various forms of inter-organizational trust on the competitiveness of industrial clusters. 38th Congress of the International Institute of Sociology. 26-30 June, Budapest.
19. 2007a. The theory of structural interdependence some suggestions for a new theoretical framework. Workshop on Organizational Design. Bruxelles, April 16-17.
20. 2007b. (co-authored with E. Sevi) Emergent effects of task interdependence and bounded rationality on workgroup performance. AIRS, Castel Ivano (TN, Italy) October 18-20.
21. 2007c. Organizations as cognitive systems: what do they process and deliver? AIRS, Castel Ivano (TN, Italy) October 18-20.
22. 2006a. (co-authored with R. Dandi) Understanding post-fordist evolution. SASE Annual conference in Trier (Germany), 30th June-2nd July.
23. 2006b. Inter-firm knowledge flows in innovation collaboration networks: an exploratory study in the aerospace metropolitan district of Rome. SASE Annual conference in Trier (Germany), 30th June-2nd July.
24. 2006c. (co-authored with R. Dandi) Measuring structural hierarchy in formal and informal networks. XVI ISA World Congress of Sociology, Durban, South Africa, 23-29 July.
25. 2006d. System identity and autonomy of an international research team: a case study in self-observation. XVI ISA World Congress of Sociology, Durban, South Africa, 23-29 July.
26. 2006e. Outranking Methods: A Pillar for Evolutionary Economics. XVI ISA World Congress of Sociology, Durban, South Africa, 23-29 July.
27. 2006f. (co-authored with A. Sammarra, R. Dandi e C. Muzzi) The identification of innovation catalysts in the triple helix: empirical evidence from the aerospace sector in central Italy. XVI ISA World Congress of Sociology, Durban, South Africa, 23-29 July.
28. 2006g. (co-authored with E. Sevi) The effects of relational complexity on group performance. Results from an agent-based simulation model. XVI ISA World Congress of Sociology, Durban, South Africa, 23-29 July.
29. 2005a. (co-authored with A. Sammarra, R. Dandi e C. Muzzi) The identification of Innovation Catalysts in the Triple Helix: Empirical Evidence in the Aerospace Industrial Cluster in Central Italy. Triple Helix Conference, Turin (Italy), 18-21 May.
30. 2005b. (co-authored with A. Sammarra, R. Dandi e C. Muzzi) Patterns of Knowledge Transfer in the Aerospace Industrial Cluster in Central Italy: Methodological Aspects and Empirical Results. Triple Helix Conference, Turin (Italy), 18-21 May.
31. 2005c. (co-authored with G. Iazzolino e D. Laise) On Multicriteria Business Performance Measurement. 2nd International Conference on Enterprise Systems and Accounting (ICESA), Thessaloniki (Greece), 11-12 July.

32. 2005d. (co-authored with E. Sevi) The Effects of Relational Complexity on Group Performance. Paper presentato al Symposium on Socio-cybernetics dell'European Systems Science Union a Parigi, 19-22 settembre.
33. 2005e. (co-authored with A. Sammarra, R. Dandi e C. Muzzi) Imprese, istituzioni e processi innovativi. Un'analisi relazionale delle collaborazioni per l'innovazione nel cluster aerospaziale del Lazio. Paper per il Workshop di Organizzazione Aziendale.
34. 2004a. Western European Local Production Systems Under the Pressure of Low-Cost Economies and ICT: Looking for a Relocation Theory. Reading, giugno.
35. 2004.b (co-authored with A. Sammarra, R. Dandi e C. Muzzi) Dalla gerarchia "comando e controllo" all'organizzazione partecipativa: il ruolo dell'Information and Communication Technology", articolo presentato al 5° Workshop dei Docenti e Ricercatori di Organizzazione Aziendale, Roma, 5-6 Febbraio.
36. 2004.c (co-authored with A. Sammarra, R. Dandi e C. Muzzi) Le tecnologie di comunicazione ed il cambiamento organizzativo: l'introduzione dell'e-mail nell'Agenzia delle Entrate, articolo presentato al 5° Workshop dei Docenti e Ricercatori di Organizzazione Aziendale, Roma, 5-6 Febbraio.
37. 2004. A. Sammarra, C. Muzzi & R. Dandi. Organizational Consequences of E-mail Adoption and Diffusion: Theoretical Issues and Empirical Results. Paper presented in eChallenge 2004 (IST-EU), Vienna 27-29 October.
38. 2003. (co-authored with A. Sammarra, R. Dandi e C. Muzzi) The Effect of Email Use and Adoption on Organisational Participation. Paper presented at the 19th EGOS Colloquium, Copenhagen, July 3-5.
39. 2001.a (co-authored with Alessia Sammarra) Identity, Cooperation and Learning in Local Production Networks. Paper presented at the EGOS 17th Colloquium, July 5-7 2001, Lyon, France.
40. 2001b. (co-authored with Alessia Sammarra) Similarity and Complementarity in Inter-organizational Networks. Paper presented in APROS, 3-5 December, Hong Kong.
41. 1999a. Participation in the Post-fordist Age. Paper presented alla Tilburg Conference
42. 1999b. Identity and diversity in inter-organizational networks, paper presented alla British Academy of Management, Manchester 1-3 September.
43. 1999c. The location of multinationals in industrial districts: the case of biomedical, paper presented to ESRI Thematic Research Workshop on Economic Actors, National Systems and International Contexts, 21-24 September 1999, Copenhagen.
44. 1999d. District identity: a model and a test, paper presented in NECSTS-99 Conference on Regional Innovation Systems, 30 September – 2 October, Donostia-San Sebastian (Spagna).
45. 1998a. Italian Industrial Districts: An Evolutionary and Institutionalist View. Paper presented at Triple Helix Conference (January). Available on web page.
46. 1998b. Faces of Constructivism: Steps toward an Epistemology of Management, paper presented al SOEIS meeting in Bielefeld (March). Available on web page.
47. 1998c. IOR: Theories in Comparison. Paper presented a EGOS (July). Available in my web page.
48. 1998d. Globalization and Self-organization: Consequences of Decentralization for Industrial Organization (co-authored with H.J.L. Voets). Presented at ISA (July). Available on web page.
49. 1998e. Organizational Lego: Ways of De(re)composition. Paper presentato a EGOS (luglio). Available on web page.
50. 1998f. The Creation and Evolution of District Identity: Theoretical and Empirical Observations. Paper presented to LIUC Conference (November). Available on web page.

Papers available on SSRN (Social Science Research Network www.ssrn.com)

1. 2008a. On the effects of exploration and experimentation capacity on industry competitiveness: results from an agent-based simulation model.
2. 2008b. Does email communication increase participation in decision making in organizations?
3. 2008c Knowledge sources for cluster firms. Evidence from six Western European industrial clusters.
4. 2008d. On the relative advantages of efficiency and redundancy in facing with environmental shocks and the moderating effects of agents' opportunism.
5. 2007a. (co-authored with E. Sevi) Task interdependence and bounded rationality.
6. 2007b. Organizations as cognitive systems: what do they process and deliver?

Publications in Italian

1. 2013. Stress e Psiconeuroendocrinoimmunologia. Lo studio dei sistemi vitali tramite modelli di simulazione (Stress and Psychoneuroendocrinimmunology. Understanding living systems through simulation modeling). In Bottaccioli F. (Ed.) *Stress e vita. La scienza dello stress e la scienza della salute alla luce della Psiconeuroendocrinoimmunologia* (cap. 8, pp. 123-137). Milan: Tecniche Nuove.
2. 2011a. Per un cambio di paradigma nelle scienze sociali e naturali (Towards a paradigm change in social and natural sciences). In Bottaccioli F. (Ed.) *Mutamenti nelle basi delle scienze* (cap. 1, pp. 1-18). Milan: Tecniche Nuove.
3. 2011b. "Nuovi" strumenti di studio dei fenomeni sociali e naturali: riflessioni sull'impiego delle metodologie di analisi reticolare e di simulazione ("New" tools for understanding social and natural phenomena: considerations on the application of network and agent-based simulation methodologies). In E. Gagliasso, R. Memoli and M.E. Pontecorvo (Eds.) *Scienza e scienziati: colloqui interdisciplinari* (cap. 2.1, pp. 98-169). Milan: Angeli.
4. 2010a. Tipi e meccanismi di trasmissione delle informazioni tra organizzazioni: il caso del cluster aerospaziale del Lazio (Types and transmission mechanisms of information exchange between organizations: the case of the aerospace cluster of Lazio), in Fiscato G. and Pilotti L. (Eds.). *Competitività e ecologie e territorio* (Competitiveness, ecologies, and territory). Scripta Web. <http://scriptaweb.eu/Catalogo/competitivita-ecologie-e-territorio>.
5. 2010b. Le metodologie reticolari e simulative in medicina e biologia (Network and simulation methodologies in medicine and biology). *Sicurezza Sanitaria*. XVII (108): 10-19.
6. 2009. (co-authored with A. Sammarra, C. Muzzi & R. Dandi) Determinants of electronic participation in decision making: a case study, in Di Guardo, M., Pinna R. and Zaru D. (Eds.) *Per lo sviluppo, la competitività e l'innovazione del sistema economico: il contributo degli studi di Organizzazione Aziendale* (Toward growth, competitiveness and innovation of economic systems: the contribution of organization studies) (pp. 367-388). Milan: Franco Angeli.
7. 2008. Processi di trasformazione dei sistemi territoriali. Ipotesi di ricerca e risultati empirici sulle fonti di conoscenza locale e sui tipi di digitalizzazione in alcuni cluster europei (Transformation processes of territorial systems. Research hypotheses and empirical results on the local knowledge sources and forms of digitalization in some European industrial clusters). *L'industria*. Vol. XXIX (3): 489-545.
8. 2006a. Imprese, istituzioni e processi innovativi. Un'analisi relazionale delle collaborazioni per l'innovazione nel cluster aerospaziale del Lazio (Firms, institutions and innovative processes. A relational analysis of collaboration for innovation in the aerospace cluster of Lazio Region) (con A. Sammarra, R. Dandi and C. Muzzi), in R. Mercurio (Eds.) *Organizzazione, regolazione e competitività* (pp. 219-232). Milano: McGraw-Hill.

9. 2006b. Multicriteria valuation of business strategies (co-authored with G. Iazzolino and D. Laise), in C. Leporelli (Eds.) *Reti, servizi e competitività delle imprese*, XVII Riunione Scientifica AiIG. Rome: Aracne Editrice.
10. 2005a. Organizzazione e trasformazioni d'impresa (Organization and firm's transformations), in L. Pilotti (Eds.) *Strategie innovative e impresa della conoscenza nella competizione globale* (311-372). Roma: Carocci.
11. 2005b. Gli effetti della dimensione del gruppo di lavoro e della complessità dei compiti sulla performance: un modello di simulazione ad agenti interagenti (The effects of group size and task complexity on group performance: an agent-nased simulation model) (co-authored with E. Sevi). *Sistemi Intelligenti*: 93-128.
12. 2005c. Gli effetti della complessità delle interdipendenze dei compiti sulla performance dei gruppi di lavoro (The effect of complexity of task interdependency on the performance of work groups) (co-authored with E. Sevi), in D. Bodega (Eds.) *Organizzare a misura d'uomo*. Milano: McGraw-Hill (pp. 15-25).
13. 2004a. La valutazione multicriteriale delle strategie aziendali (The multicriteria evaluation of business strategy) (co-authored with D. Laise). *Sinergie*. 63: 199-219.
14. 2004b. Comportamento organizzativo e aiuto alle decisioni multicriteriali (Organizational behavior and multicriteria decision aid) (co-authored with D. Laise). *Sistemi intelligenti*. 3: 435-456.
15. 2003a. Razionalità. (Rationality) In U. Telfener and L. Casadio (Eds.) *Sistemica: voci e percorsi nella complessità* (Sistemica: a dictionary in complexity) (pp. 258-263). Turin: Boringhieri.
16. 2003b. Controllo. (Control) in U. Telfener and L. Casadio (Eds.) *Sistemica: voci e percorsi nella complessità* (Sistemica: a dictionary in complexity) (pp. 166-169). Turin: Boringhieri.
17. 2003c. Management. In U. Telfener and L. Casadio (Eds.) *Sistemica: voci e percorsi nella complessità* (Systemics: a dictionary in complexity) (pp. 396-399). Turin: Boringhieri.
18. 2003d. Metafore per l'economia. (Metaphores for economics) In U. Telfener and L. Casadio (Eds.) *Sistemica: voci e percorsi nella complessità* (Sistemica: a dictionary in complexity) (pp. 94-97). Turin: Boringhieri.
19. 2002a. (Eds.) (con A. Sammarra) *Apprendimento, identità e marketing territoriale* (Learning, identity and territorial marketing). Rome: Carocci.
20. 2002b. Identità e marketing nelle politiche di governo locale. (Identity and marketing in local government policies) In L. Biggiero and A. Sammarra (Eds.) *Apprendimento, identità e marketing territoriale*. Rome: Carocci (pp. 57-69).
21. 2002c. Introduzione. In L. Biggiero and A. Sammarra (Eds.) *Apprendimento, identità e marketing territoriale* (Learning, identity and territorial marketing). Rome: Carocci.
22. 2001. Il sistema scolastico italiano: un approccio post-fordista (The Italian schools system: a post-fordist approach). In L. Benadusi (Ed.) *Organizzare la scuola dell'autonomia* (pp. 157-196). Rome: Carocci.
23. 1998a. Economia politica ed economia aziendale: un confronto inter-teorico (Political economy and business administration: an inter-theoretical comparison), (co-authored with D. Laise). *Economia e Politica Industriale*. 97: 79-126.
24. 1998b. Economia politica ed economia aziendale: un confronto epistemologico (Political economy and business administration: an inter-theoretical comparison) (co-authored with D. Laise). In G.B. Dagnino, P. Di Betta and P. Quattrone (Eds.) *Le metodologie della ricerca nelle discipline economico-aziendali fra tradizione e nuove tendenze* (pp. 283-299). Napoli: EDI.
25. 1998c. Determinismo e intenzionalità in alcune tradizioni di ricerca in economia e management (Determinism and intentionality in some research traditions in economics and management),

- (co-authored with D. Laise). In M. Cini (Ed.) *Caso, libertà, necessità* (pp. 129-166). Napoli: CUEN.
26. 1997. *Valutazione d'azienda e analisi multicriteriale* (Firm's evaluation and multicriterial analysis), co-authored with Domenico Laise. Reggio Città Studi, Reggio Emilia.
 27. 1997. Lo spazio organizzativo (Organizational space). In G. Costa and R.C.D. Nacamulli (Eds.) *Manuale di Organizzazione* Vol. 2 (pp. 113-133). Turin: UTET.
 28. 1995. *La mortalità industriale: l'analisi dei modelli teorici e di un caso empirico* (Industrial mortality: an analysis of theoretical models and a field research). (co-authored with Matteo Caroli) Milan: Guerini.
 29. 1995. Demografia industriale ed ecologia delle popolazioni: due paradigmi a confronto (Industrial demography and population ecology: comparing the two approaches). *Sinergie*. 11: 19-44.
 30. 1995. Il contributo delle teorie organizzative alle teorie dell'impresa (The contribution of organization theories to theories of the firm). In L. Caselli (Ed.) *Le parole dell'impresa* Vol. 2 (pagg. 558-572). Rome: ENI-ISVET.
 31. 1994. *Le radici teoriche dell'analisi interorganizzativa* (Theoretical roots of interorganizational analysis). Proceedings of the Conference on Interorganizational Relations. Bologna.
 32. 1992. Teoria dell'impresa: alcuni spunti di riflessione (Theory of the firm: some theoretical issues). *Economia e Politica Industriale*. 71: 29-47.
 33. 1992. Le relazioni tra imprese nei principali modelli teorici (Firms' relationships in main theoretical approaches). In S. Palmieri (Ed.) *Nuove imprese e rapporti tra imprese* (Enterprise creation and firm relationships) (pp. 153-178). Turin: Isedi.
 34. 1991. *L'evoluzione di un'azienda municipalizzata gas-acqua*. (The evolution of a municipalized company). Milan: Angeli.
 35. 1990. *Teorie dell'impresa: un confronto tra il pensiero economico e il pensiero organizzativo* (Firm theories: a comparison between the economic and the organizational thought). Milan: Angeli.
 36. 1989. Teoria dell'impresa ed economia aziendale: riflessioni su un territorio di frontiera (Firm theory and business administration: remarks on a frontier field). *Economia e Politica Industriale*. 61: 91-108.
 37. 1988. Sull'accettabilità della teoria neoclassica (On the acceptability of neoclassical theory), *Economia e Politica Industriale*. 60: 200-244.
 38. 1987. *Il commercio internazionale di macchine per il packaging* (The international trade of packaging machines). Bologna: Eret.
 39. 1987. *L'industria delle macchine per il packaging* (The packaging machines industry). Bologna: Compositori.