

UGO TRIVELLATO: curriculum vitae

Present position and professional address

Professor of Economic Statistics

Dipartimento di Scienze Statistiche

Università di Padova

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Education

Laurea, Economic and Political Sciences, University of Padova, 1966.

Professional experience

Professor of Economic Statistics, University of Padova, 1980- .

Visiting professor, CES - Center for Economic Studies, Ludwig-Maximilian University, München, March 2003.

Visiting professor, CLS - Centre for Labour Market and Social Research, University of Århus, May-June 2000.

Honorary Fellow, Department of Economics, University of Wisconsin-Madison, 1988-89.

Visiting Research Fellow, Department of Statistics, University of Uppsala, 1979.

Lecturer of Economic Statistics, University of Padova, 1971-80.

Assistant professor of Economic Statistics, University of Padova, 1969-80.

Main academic offices

Preparatory activities by the University of Padova with respect to the 'Triennial Research Assessment, 2001-03': Chairman of the Selection Committee for the Domain 'Economics and statistics', 2004.

University Committee for Scientific Research: Member of the Executive Board, 2002-04.

Committee for Scientific Research, Domain 15 'Economics and statistics': Chairman, 2001-04.

University Committee for 'Research projects financing': Chairman, 1998-99.

Director of the PhD programme in Applied Statistics in Economics and Social Sciences, 1994-97.

Dean of the Faculty of Statistics, 1990-93 and 1984-87.

Director of the PhD programme in Statistics, 1983-86.

Chairman of the Institute of Statistics, 1981-83.

Research interests

Labour statistics, modelling of labour supply and unemployment.
Programme evaluation.
Structural equation models with measurement errors.
Previously, substantial work on: - Data revisions and dynamic economic modelling;
- Markovian models of the educational process.

Awards

Ezio Tarantelli Prize for the contribution to research in labour economics, 2005.

Professional societies and research networks

CESifo research fellow (2003-).
Consiglio Italiano per le Scienze Sociali (Council member, 1995-2004; honorary member, 2004-).
International Association of Survey Statisticians (scientific secretary, 1987-89).
International Statistical Institute (ordinary member, 1984-).
Istituto Veneto di Scienze, Lettere ed Arti (corresponding member, 2000-2008; member, 2008-).
IZA research fellow (2008-).
Società Italiana di Statistica (Council member, 1982-86).

Editorial activities

Member of the editorial board of *Statistica* (1993-), *Economia & Lavoro* (1981-), *Journal of the Italian Statistical Society* (1992-1999).

Referee: *Economic Notes*, *International Journal of Forecasting*, *Journal of Business & Economic Statistics*, *Journal of Economic Inequality*, *Journal of Econometrics*, *Journal of Official Statistics*, *Labour*, *Labour Economics*, *Ricerche Economiche* (presently *Research in Economics*), *Rivista di Statistica Ufficiale*, *Statistica Applicata*, *Test*, *The Review of Economics and Statistics*, McGraw-Hill, Ministero dell'Istruzione Università e Ricerca, UK Economic and Social Research Council.

Invited lectures

National Conference of the 'Società Italiana di Statistica Medica ed Epidemiologia Clinica', Brescia, October 2003.
XVI AIEL Conference on Labour Economics, Firenze, October 2001.
Istituto Veneto di Scienze Lettere ed Arti, Conference on "Dignità del vivere", Venezia, October 2000.
Fourth Conference on Methodological Issues in Official Statistics, Stockholm, October 2000.
CEIES Seminar "Innovation in Provision and Production of Statistics: The Importance of New Technologies", Helsinki, January 2000.
European Science Foundation Conference on "Socio-Economic Research & Geographic Information Systems", Espinho, May 1999 (Keynote address).
Istat and Sistan "Quarta Conferenza Nazionale di Statistica", Roma, November 1998.

Conference “La misura della disoccupazione e la modellazione dell’offerta di lavoro: definizioni a priori e stime dipendenti da modelli a confronto”, Istat, Roma, January 1997.

Università di Siena, Lectures in Statistics on the occasion of Sienna University 750 years, June 1992.

XXXV Scientific Meeting of the Società Italiana di Statistica, Padova, April 1990.

Opening of the 768th academic year of the Università di Padova, February 1990 (Keynote address).

47th Session of the International Statistical Institute, Paris, September 1989.

Conference of the Società Italiana di Statistica, Pavia, April 1981.

International Symposium on the IEA Results and their Implications for Educational Policy and Practice, Roma, April 1977.

Selected presentations at Conferences and Workshops (last five years)

European Conference on Quality on Official Statistics 2008, Istat-Eurostat, Roma, July 2008.

Seminar “Verso i principi comuni della flexicurity”, Isfol and DG Employment of the European Commission, Venezia, May 2008.

2008 CESifo Area Conference on Employment and Social Protection, München, May 2008.

Conference “Labor Market Flows, Productivity and Wage Dynamics: Ideas and Results from Empirical Research on Employer-Employee Linked Longitudinal Databases”, LABORatorio R. Revelli, Fondazione Carlo Alberto, Moncalieri (Torino), September 2007.

Workshop “Dynamic Analysis Using Panel Data: Applications to Poverty and Social Exclusion”, Poverty and social exclusion”, LABORatorio R. Revelli, Fondazione Carlo Alberto, Moncalieri (Torino), June 2007.

ESPE Twenty First Annual Conference, Chicago, June 2007.

Workshop “Modeling and Inference in Microeconomics”, Università di Bologna, March 2007.

Second Italian Congress of Econometrics and Empirical Economics, Università di Bologna - Campus di Rimini, January 2007.

Workshop of the PRIN project “La valutazione dell’impatto di interventi pubblici: metodi e studi di caso”, Università di Firenze, January 2007.

28th Annual APPAM Research Conference “Designing, Implementing, Managing and Evaluating Effective Distributional Policies”, Madison, WI, November 2006.

1st National Conference of the Fondazione Ermanno Gorrieri “Le politiche di sostegno alle famiglie con figli. Il contesto e le proposte”, Modena, October 2006.

International Conference “Methodology of Longitudinal Surveys”; University of Essex, Colchester, July 2006.

Istat-Cisis Conference “I dati amministrativi per le statistiche sui mercati del lavoro locali”, CNR, Roma, June 2006.

94th International Conference of the AEA “Labour Market Policies and Unemployment”, Napoli, June 2006.

Workshop “The Evaluation of Labour Market, Welfare and Firms Programmes”, Università di Padova jointly with IVSLA, Venezia, May 2006.

Conference “Mercato del lavoro europeo: innovazione organizzativa, informativa e tecnologica”, Ministero del Lavoro e delle Politiche Sociali, Roma, March 2006.

XX AIEL Conference of Labour Economics, Università di Roma “La Sapienza”, September 2005.

9th World Congress of the Econometric Society, UCL, London, August 2005.

IAB Conference “The Empirical Evaluation of Labour Market Programmes”, Nuremberg, June 2005.

ESPE Nineteenth Annual Conference, Paris, June 2005.

EALE/SOLE World Conference 2005, San Francisco, June 2005.

International Conference in Memory of Two Eminent Social Scientists: C. Gini and M.O. Lorenz, Siena, May 2005.

Conference of the PRIN project “Metodi e applicazioni per la valutazione di politiche del lavoro e sociali”, LABORatorio R. Revelli, Fondazione Carlo Alberto, Moncalieri (Torino), April 2005.

Seminar “Fonti e metodi di stima della mobilità del lavoro in Italia”, Università di Milano Bicocca, March 2005.

Seminar “Procedure per la predisposizione del Programma Statistico Nazionale”, Istat, Roma, March 2005.

First Italian Congress of Econometrics and Empirical Economics, Venezia, January 2005.

XIX AIEL Conference of Labour Economics, Modena, September 2004.

24th Biannual Conference of SMABS, Jena, July 2004.

Seminar “Gli effetti dei benefici ai lavoratori iscritti in Lista di Mobilità sulla loro successiva probabilità di occupazione”, Ministero del Welfare, Roma, July 2004.

XLII Scientific Meeting of the Società Italiana di Statistica, Università di Bari, June 2004.

Workshop “Sistemi informativi integrati nella stima per piccole aree”, Università di Firenze, April 2004.

Research grants

Research agreement with Istat on ‘The Continuous Labour Force Survey: data quality in a longitudinal perspective and flows and dynamics of labour force participation’, principal investigator; 2007- .

Ministry for Education, University and Research grant for a research project on ‘Impact evaluation of public policies: methods and case-studies’, co-investigator, 2006- .

Ministry for Education, University and Research grant for a research project on ‘Evaluating the impact of active labour market and welfare policies: methods and case-studies’, principal investigator, 2004-06.

Research agreement with Istat on ‘Record linkage of panel data from the Quarterly Labour Force Survey over more than two waves and estimation of worker mobility’, principal investigator, 2003-2005.

Ministry for Education, University and Research grant for a research project on ‘Dynamics and inertia in the Italian labour market and policies evaluation (data-bases, measurement issues, substantive analyses)’, principal investigator, 2002-2003.

Ministry of University and Research grant for a research project on ‘Employment and unemployment in Italy: measurement and behavioural analyses’, principal investigator, 2000-2001 .

Ministry of University and Research grant for a research project on 'Labour and unemployment: issues of measurement and analysis', principal investigator, 1998-1999.

CNR (the Italian National Research Council) grant for a research project on 'Unemployment and the low activity rate in Italy: specific causes and adequate remedies', principal investigator, 1995-98.

Ministry of University and Research grant for a research project on 'Complex household surveys, non-sampling errors and micro-models of economic behaviour', principal investigator, 1994-98.

CNR grant for a research project on 'Measurement errors and statistical models for longitudinal data', principal investigator, 1993-95.

Ministry of University and Research grant for a research project on 'Discrete choice, latent variables, and stochastic models of economic behaviour', principal investigator, 1992-94.

Ministry of University and Research grant for a research project on 'Longitudinal data and methods for the analysis of labour supply', principal investigator, 1988-91.

NATO-CNR Senior Fellowship Scheme, 1988.

Ministry of Education, CNR and Istat grants for a research project on 'The Italian labour force survey: design and structural analyses', principal investigator, 1986-89.

Ministry of Education grant for a research project on 'Economic data revisions and dynamic modelling', principal investigator, 1983-85.

CNR grant for a research project on 'Structural models with measurement errors in the social sciences', principal investigator, 1979-81.

NATO-CNR Senior Fellowship Scheme, 1979.

Ministry of Education Fellowship, 1967-69.

CNR Fellowship, 1966-67.

Other professional activities

National Commission on Labour (set up by the Presidencies of the Senato della Repubblica, Camera dei Deputati and CNEL), 2007- .

CSS's Commission on 'Impact evaluation of public programmes: methods, practices, perspectives': co-chairman (with Alberto Martini), 2006- .

Scientific Committee of the 'Fondazione Ermanno Gorrieri per gli studi sociali', 2005- .

Istat's Committee on 'Revision of the methodology for estimating absolute poverty', 2004- .

SPC/CEIES Task Force 'On the future of CEIES', 2004.

CSS's Commission on 'The assessment of research', 2003-2006.

Scientific Committee of LABORatorio Riccardo Revelli - *Centre for Employment Studies*, 1999- .

Working group set up by scientific associations and CRUI (the Conference of Rectors of Italian Universities) on the 'Code of conduct on the processing of personal data for research purposes': chairman, 1998-2004.

CEIES - European Advisory Committee on Statistical Information in the Economic and Social Spheres, 1995-2005.

Surveillance Committee on Statistical Information: member (February 1997-February 2003); President (September 1999-November 2002).

Istat's Council, 1999-2002 .

Committee on Poverty and Social Exclusion (set up at the Prime Minister Bureau), 1994-2000.

Joint Committee by the Ministry of University and Research and Istat on the implementation of an information system on university education and research , 1996-1999.

Technical Committee of the Veneto Region for Manpower and Vocational Training Programmes, 1992-94.

Italian Statistical Society's Committee on 'The use of individual data from official statistical sources for research', 1990.

Istat's Working Group on 'Supplementary surveys to the Labour Force Survey', 1988-90.

Ministry of Education Working Group on 'The information system on public education': chairman, 1984.

Istat's Advisory Committee on 'An information system on labour', 1983-84.

Eurostat's Working Group on 'Transition from school to working life': chairman, 1980-81.

OECD's Working Group on 'Educational statistics and indicators', 1972-78.

Selected publications: (a) in English

"A latent class approach for estimating gross flows in the presence of correlated classification errors" (with F. Bassi), in P. Lynn (Ed.), *Methodology of Longitudinal Surveys*, New York, Wiley, 2008 (forthcoming).

"Choosing among alternative classification criteria to measure the labour force state" (with E. Battistin and E. Rettore), *Journal of the Royal Statistical Society - Series A*, 170 (1), 2007, pp. 5-27.

"Recalling Camilo Dagum", *Statistica*, 66 (3), 2006, pp. 331-338.

"Assessing the 'choosiness' of job seekers. An exploratory approach and evidence for Italy" (with A. Giraldo), *Labour*, 20 (1), 2006, pp. 1-36.

"Worker mobility from Social Security registers and household surveys: A comparative analysis" (with P. Baretta), in Società Italiana di Statistica, *Atti della XLII Riunione Scientifica. Università di Bari, 9-11 giugno 2004. Sessioni spontanee*, Cleup, Padova, 2004, pp. 411-414.

"The effects of inflation on households with different consumption structure" (with A. Giraldo), in Società Italiana di Statistica, *Atti della XLII Riunione Scientifica. Università di Bari, 9-11 giugno 2004. Sessioni spontanee*, Cleup, Padova, 2004, pp. 121-124.

"Assessing the effects of the 'Mobility Lists' programme by flexible duration models" (with A. Paggiaro), *Labour*, 16 (2), 2002, pp. 235-266.

"Attrition bias in the Bank of Italy's Survey on Household Income and Wealth" (with A. Giraldo and E. Rettore), *Proceedings of the International Conference on Quality in Official Statistics*, Stockholm, 14-15 May 2001.

"Data access *versus* privacy: An analytical user's perspective", *Statistica*, 60 (4), 2000, pp. 669-689.

"Measuring participation at work in the presence of fallible indicators of labour force state" (with E. Battistin and E. Rettore), in Società Italiana di Statistica, *Atti della XL Riunione Scientifica SIS, Firenze 26-28 aprile 2000*, Firenze, 2000, pp. 369-380.

- “Issues in the design and analysis of panel studies: A cursory review”, *Quality & Quantity*, 33 (3), 1999, pp. 339-352.
- “Data and modelling strategies in estimating labour force gross flows affected by classification errors” (with F. Bassi and N. Torelli), *Survey Methodology*, 24 (2), 1998, pp. 109-122.
- “The role of survey data in microsimulation models for social policy analysis” (with A. Martini), *Labour*, 11 (1), 1997, pp. 85-114.
- “A DYMIMIC model of employment: Another look at some issues of formulation, identification and estimation” (with S. Bordignon and C. Gaetan), in K. Haagen, D. J. Bartholomew and M. Deistler (Eds.), *Statistical modelling and latent variables*, Amsterdam, North-Holland, 1993, pp. 321-340.
- “A Double-Hurdle labour supply model with fallible indicators of labour force state” (con E. Rettore), *Statistica*, 53 (3), 1993, pp. 341-367.
- “Unemployment and search for work: Exploratory analyses of labour market attachment and its dynamics” (with E. Rettore and N. Torelli), *Labour*, 7 (3), 1993, pp. 133-159.
- “Data inaccuracies and sampling plan in a model of unemployment duration” (with N. Torelli), in H. Bunzel, P. Jensen and N. Westergård-Nielsen (Eds.), *Panel data and labour market dynamics*, Amsterdam, North-Holland, 1993, pp. 171-188.
- “Modelling inaccuracies in job-search duration data” (with N. Torelli), *Journal of Econometrics*, 59, 1993, pp. 187-211.
- “The evaluation of errors in national accounts data: Provisional and revised estimates” (with L. Biggeri), *Survey Methodology*, 17 (1), 1991, pp. 99-119 [also in French: “L’évaluation des erreurs dans les données de comptabilité nationale: les estimations provisoires et révisées”, *Techniques d’Enquête*, 17 (1), 1991, pp. 111-131].
- “Unemployment and search for work: Exploratory analyses of labour market attachment using CPS-type data” (with E. Rettore and N. Torelli), *Labour*, 4 (3), 1990, pp. 161-190.
- “On the optimal use of provisional data in forecasting with dynamic models” (with S. Bordignon), *Journal of Business & Economic Statistics*, 7 (2), 1989, pp. 275-286.
- “Longitudinal analysis of unemployment duration from a household survey with rotating sample: A case study with Italian labor force data” (with G. Marliani and N. Torelli), in Bureau of the Census, *Fifth Annual Research Conference. March 19-22, 1989. Proceedings*, Washington, D.C., U.S. Dept. of Commerce, Bureau of the Census, 1989, pp. 408-427.
- “The analysis of labour force dynamics from rotating panel survey data” (with N. Torelli), *Bulletin of the International Statistical Institute. Proceedings of the 47th Session*, Vol. LIII, Book 2, 1989, pp. 425-444.
- “Youth unemployment duration from the Italian Labour Force Survey: Accuracy issues and modelling attempts” (with N. Torelli), *European Economic Review*, 33 (2/3), 1989, pp. 407-415.
- “Modelling job-search duration from the Italian labour force data” (with N. Torelli), *Labour*, 2 (1), 1988, pp. 117-134.

- “Preliminary data errors and their impact on the forecast error of simultaneous equations models” (with E. Rettore), *Journal of Business & Economic Statistics*, 4 (4), 1986, pp. 445-453.
- “A Markovian model of the educational system: refinements and applications at sub-regional levels” (with G. Lovison), *Sistemi Urbani*, (3), 1985, pp. 259-281.
- The determinants of student achievement in Italy. An exploratory analysis of the causal patterns of achievement in the IEA six subject survey* (with A. Zuliani), Stockholm, Almqvist & Wicksell, 1979.

Selected publications: (a) in Italian

- “L’implementazione e la valutazione degli effetti delle politiche: tra buoni propositi e pochezza delle pratiche”, in L. Guerzoni (a cura di), *La riforma del welfare. Dieci anni dopo la ‘Commissione Onofri’*, Bologna, Il Mulino, 2008 (forthcoming) [Implementation and impact evaluation of welfare policies: Good purposes and poor practice].
- “Gli episodi di povertà causano ulteriori episodi di povertà? Evidenze dal panel sui bilanci delle famiglie della Banca d’Italia” (con A. Giraldo e E. Rettore), in A. Brandolini e C. Saraceno (a cura di), *Povert  e benessere. Una geografia delle disuguaglianze in Italia*, Bologna, Il Mulino, 2007, pp. 237-257 [Poverty episodes do cause further poverty episodes? Evidence from the panel of the Bank of Italy’s Survey on Household Income and Wealth].
- “Il monitoraggio delle politiche di sostegno monetario e la valutazione dei loro effetti”, in L. Guerzoni (a cura di), *Le politiche di sostegno alle famiglie con figli. Il contesto e le proposte*, Bologna, Il Mulino, 2007, pp. 317-326. [Monitoring and evaluation of the effects of policies of monetary transfers to families with dependent children].
- “Trasformazioni del mercato del lavoro italiano, politiche del lavoro e disponibilit /fabbisogni informativi: un percorso a met  del guado”, *Economia e Societ  Regionale*, 94 (2), 2006, pp. 5-28. [Changes in the Italian labour market, active labour market policies and availability/needs of statistical information].
- Eppur si muove. Dinamiche e persistenze nel mercato del lavoro italiano* (con B. Contini; a cura di), Bologna, Il Mulino, 2005 [Yet it moves. Dynamics and persistence in the Italian labour market (Ed.)].
- “La mobilit  dei lavoratori da fonti amministrative e da surveys sulle famiglie: un’analisi comparata” (con P. Baretta), *Statistica*, 64 (1), 2004, pp. 23-55 [Worker mobility from Social Security registers and household surveys: A comparative analysis].
- “Al crocevia fra scienza, ideologia e regime: uno sguardo allo sfondo e ad alcuni statistici e demografi eminenti”, in G. Dalla Zanna (a cura di), *Numeri e potere. Statistica e demografia nella cultura italiana fra le due guerre*, L’Ancora, Napoli, 2004, pp. 69-86 [At the crossroads of science, ideology and the Fascist regime: A look at some distinguished statisticians and demographers].
- “Protezione dei dati personali e ricerca scientifica”, *Statistica*, 63 (4), 2003, pp. 627-648 [Data protection and scientific research].
- “La valutazione delle politiche del lavoro in presenza di selezione: migliorare la teoria, i metodi o i dati?” (con E. Rettore e A. Martini), *Politica Economica*, 19 (3), 2003, pp.

- 301-341 [The evaluation of active labour market policies in the presence of selection: Should we invest more on theory, methods or data?].
- “Come si misura l’inflazione? Note in merito ad dibattito sull’andamento dei prezzi”, *Economia e Società Regionale*, 81, 2003, pp. 55-66. [How do we measure inflation? Some comments on the debate about the dynamics of prices].
- Servizi per l’impiego e ricerche sul lavoro. L’esperienza del Veneto* (a cura di), Quaderni di Economia del Lavoro n. 72, Milano, Franco Angeli, 2001 [Labour exchange offices and research on labour market dynamics. The case of the Venetian region (Ed.)].
- “Il lavoro attraverso gli ‘Annali’: dalle preoccupazioni sociali alla misura della partecipazione e dei comportamenti nel mercato del lavoro” (con G. Favero), in P. Geretto (a cura di), *Statistica ufficiale e storia d’Italia. Gli “Annali di Statistica” dal 1871 al 1997*, Annali di Statistica, Serie X, Vol. 21, Roma, Istat, 2000, pp. 225-304 [Labour statistics as seen from the ‘Annals of Statistics’: From social concerns to the measurement of labour force participation and behaviour].
- “Come disegnare e valutare politiche attive del lavoro” (con E. Rettore), *Il Mulino*, 48 (385), 1999, pp. 891-904 [How should we design and evaluate active labour market policies?].
- “Progettare un’informazione statistica pertinente”, in *Atti della Quarta Conferenza Nazionale di Statistica*, Roma, Sistan-Istat, 1999, Tomo 1, pp. 49-72 [Planning a relevant statistical information].
- “Il monitoraggio della povertà e della sua dinamica: questioni di misura e evidenze empiriche”, *Statistica*, 58 (4), 1998, pp. 549-575 [Monitoring poverty and its dynamics: Measurement issues and empirical evidence].
- “La misura della disoccupazione e la modellazione dell’offerta di lavoro: definizioni a priori e stime dipendenti da modelli a confronto” (con E. Rettore), in E. Giovannini (a cura di), *La misurazione delle variabili economiche e i suoi riflessi sulla modellistica econometrica. Atti del Convegno, Roma 13-14 gennaio 1997*, Annali di Statistica, Serie X, vol. 15, Roma, Istat, 1998, pp. 127-146 [Measuring unemployment and modelling labour supply: A priori definitions and model dependent estimates compared].
- “Dimensioni latenti del comportamento e analisi longitudinale”, in Società Italiana di Statistica, *Continuità e discontinuità nei processi demografici. L’Italia nella transizione demografica*, Soveria Mannelli (Catanzaro), Rubbettino, 1995, pp. 123-141 [Latent dimensions in behaviour and longitudinal analysis].
- “Scolarità e formazione professionale nel Mezzogiorno: nuove evidenze da un’analisi dei flussi” (con L. Bernardi), *Economia & Lavoro*, 27 (3-4), 1994, pp. 3-34 [Schooling and vocational training in the ‘Mezzogiorno’: New insights from a gross flows analysis].
- Scelte discrete, dati longitudinali e modelli di comportamento economico* (con E. Rettore; a cura di), Special Issue of *Statistica*, 53 (3), 1993 [Discrete choice, panel data and models of economic behaviour (Ed.)].
- Errori nelle variabili e variabili latenti in modelli strutturali stocastici* (con B. Chiandotto; a cura di), Special Issue of *Statistica*, 52 (3), 1992 [Errors-in-variables and latent variables in structural modelling (Ed.)].

- “La disoccupazione tra misura senza (troppa) teoria e modelli di analisi”, in P. Calza Bini (a cura di), *La disoccupazione: interpretazioni e punti di vista*, Napoli, Liguori, 1992, pp. 39-53 [Unemployment between measurement with no (much) theory and models].
- Forze di lavoro: disegno dell'indagine e analisi strutturali* (a cura di), *Annali di Statistica*, Serie IX, Vol. 11, Roma, Istat, 1991 [The Italian labour force survey: Design and structural analyses (Ed.)].
- “Le rilevazioni dell'occupazione e delle forze di lavoro”, in G. Alleva e M. G. Ottaviani (a cura di), *La statistica italiana per l'Europa del 1993*, Roma, L'ED Edizioni, 1991, pp. 503-526 [Surveys on employment and labour force].
- “L'attendibilità di aggregati e indici economici”, in G. Marbach (a cura di), *Statistica economica*, Torino, UTET, 1991, pp. 113-140 [The reliability of economic aggregates and indices].
- “Statistica, modelli e politiche”, in Università di Padova, *Annuario per l'anno accademico 1989/90*, Padova, Soc. Coop. Tipografica, 1991, pp. 27-43 [Statistics, models and policies].
- “Modelli di comportamento e problemi di misura nelle scienze sociali: alcune riflessioni”, in Società Italiana di Statistica, *Atti della XXXV Riunione Scientifica*, Padova, Cedam, 1990, vol. 1, pp. 11-34 [Behavioural models and measurement issues in the social sciences: Some notes].
- “Problemi e metodi di valutazione dell'attendibilità delle stime di contabilità nazionale”, *Statistica*, 47 (3), 1987, pp. 365-388 [Problems and methods in evaluating the reliability of national accounts estimates].
- Attendibilità e tempestività delle stime di contabilità nazionale* (a cura di), Padova, Cleup, 1987 [Reliability and timeliness of national accounts estimates (Ed.)].
- “Markovianità e allargamento dello spazio degli stati in un modello stocastico del processo scolastico” (con L. Bernardi e G. Lovison), in Società Italiana di Statistica, *Atti della XXXIII Riunione Scientifica*, Bari, Cacucci, 1986, Vol. 1, pp. 341-349 [Markovianity and state-space enlargement in a stochastic model of the educational process].
- “Domanda di lavoro e molteplici indicatori dell'occupazione: alcune prime specificazioni MIMIC”, in Società Italiana di Statistica, *Atti della XXXIII Riunione Scientifica*, Bari, Cacucci, 1986, Vol. 2, pp. 437-445 [The employment function and multiple indicators of employment: Some MIMIC specifications].
- Errori nei dati preliminari, previsioni e politiche economiche* (a cura di), Padova, Cleup, 1986 [Preliminary data errors, forecasts and economic policies (Ed.)].
- “L'accuratezza di stime provvisorie degli aggregati di contabilità nazionale a prezzi correnti e costanti: un'analisi comparata”, in Autori Vari, *Scritti in onore di Francesco Brambilla*, Milano, Bocconi Comunicazione, 1986, Vol. 2, pp. 847-859 [The accuracy of provisional national accounts estimates at current and constant prices: A comparative analysis].
- “Stime provvisorie e revisioni degli aggregati di contabilità nazionale a prezzi correnti” (con T. Di Fonzo e E. Rettore), *Statistica*, 44 (4), 1984, pp. 649-673 [Provisional and revised estimates of Italian national accounts at current prices].
- “Un metodo per il raccordo delle serie regionali sulle forze di lavoro senza informazioni estranee” (con G. Masarotto), *Economia & Lavoro*, 17 (4), 1983, pp. 67-77 [A method

for linking two segments of regional labour force time series with no extraneous information].

Informazione statistica su scuola e mercato del lavoro e sulle politiche per l'occupazione giovanile (con A. Zuliani; a cura di), Roma, Istituto della Enciclopedia Italiana, 1982 [Statistical information and models on transition from school to working life and on youth employment policies (Ed.)].

“Stime simultanee e verifiche di invarianza di modelli strutturali lineari in più popolazioni”, in Autori Vari, *Le statistiche dello sviluppo*, Napoli, Edizioni Scientifiche Italiane, 1982, pp. 211-229 [Simultaneous estimation and testing for invariance in structural linear models for several populations].

“Modelli di misura della riuscita scolastica e loro invarianza fra maschi e femmine”, *Statistica*, 41 (4), 1981, pp. 575-597 [Measurement models of educational achievement and their invariance between boys and girls].

“Modelli strutturali lineari nelle scienze sociali: recenti sviluppi e alcune generalizzazioni”, in Società Italiana di Statistica, *Atti del Convegno 1981*, Padova, Cleup, 1981, Vol. 2, pp. 139-175 [Structural linear models in the social sciences: Recent developments and some extensions].

“Un modello strutturale lineare con restrizioni sulla matrice di covarianza e sulle medie”, *Rivista di Statistica Applicata*, 14 (3), 1981, pp. 155-174 [A structural linear model with restrictions on the covariance matrix and on the means].

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