

DONATELLA VICARI

Curriculum Vitae

Part I – General Information

Full Name DONATELLA VICARI

Citizenship ITALIAN

CONTACT INFORMATION

Dipartimento di Scienze Statistiche

Sapienza Università di Roma

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RESEARCHGATE: https://www.researchgate.net/profile/Donatella_Vicari

CURRENT ACADEMIC POSITION

Full Professor of Statistics, Sapienza University of Rome

Dipartimento di Scienze Statistiche

Facoltà di Ingegneria dell'Informazione, Informatica e Statistica

Part II – Education

University graduation 1989 - Laurea in Scienze Statistiche e Demografiche - Università degli Studi di Roma "La Sapienza" (cum laude). Dissertation: "Indices for choosing the number of groups in Cluster Analysis" (in Italian), Advisor: A. Rizzi.

Post-graduate studies 1990 - Visiting Student at the Department of Statistics University of North Carolina at Chapel Hill, NC, USA.

Part III – Academic experience

Institution Sapienza Università di Roma – Dip. di Scienze Statistiche

Position Full Professor of Statistics (SSD: SECS-S/01)

Start March 2022

End today

Institution Sapienza Università di Roma – Dip. di Scienze Statistiche

Position Associate Professor of Statistics (SSD: SECS-S/01)

Start Sep 2001

End March 2022

Institution Sapienza Università di Roma – Dip. di Statistica, Probabilità e Statistiche Applicate

Position Assistant Professor (Ricercatore) in Statistics (SSD: SECS-S/01)

Start Sep 1992

End Sep 2001

Institution Sapienza Università di Roma – Dip. di Statistica, Probabilità e Statistiche Applicate

Position	Graduated Member of the Technical Staff at Computer Lab, Department of Statistics, Probability and Applied Statistics, Sapienza University of Rome, Italy.
Start	Jan 1990
End	Sep 1992
Institution	Department of Engineering Management and Systems Engineering, George Washington University, Washington D.C. - USA
Position	Research fellow (Proff. S. Kotz and R. van Dorp) Dec 2003, Jul – Sep 2004, July – September 2005, Jun – Jul 2006, Jul 2010, Jul 2011

Part IV – Teaching experience (INSTRUCTOR)

Year	2019/2020 - today
Institution	Sapienza Università di Roma – Dip. di Scienze Statistiche
Lecture/Course	Analysis of Relational Structures (6 CFU second-year graduate course)
Year	2010/2011 - today
Institution	Sapienza Università di Roma – Dip. di Scienze Statistiche
Lecture/Course	Multivariate Statistics (9 CFU third-year undergraduate course)
Year	2013/2014 – 2018/2019
Institution	Sapienza Università di Roma – Dip. di Scienze Statistiche
Lecture/Course	Statistical Software Lab (3 CFU, third-year undergraduate course)
Year	2012/2013
Institution	Sapienza Università di Roma – Dip. di Scienze Statistiche
Lecture/Course	Statistical Software Lab (6 CFU, third-year undergraduate course)
Year	2010/2011
Institution	Sapienza Università di Roma – Facoltà di Medicina e Chirurgia I
Lecture/Course	Statistica per la Ricerca Sperimentale e Tecnologica I anno - (Corso Integrato di Metodologie di Ricerca (2 CFU, Scienze delle Professioni Sanitarie Tecniche Assistenziali)
Year	2009/2010
Institution	Sapienza Università di Roma – Facoltà di Medicina e Chirurgia I
Lecture/Course	Statistica per la Ricerca Sperimentale e Tecnologica II anno - (Corso Integrato di Metodologie di Ricerca (2 CFU, Scienze delle Professioni Sanitarie Tecniche Assistenziali)
Year	2003/2004 - 2009/2010
Institution	Sapienza Università di Roma – Facoltà di Scienze Statistiche
Lecture/Course	Multivariate Statistics (8 CFU third-year undergraduate course)
Year	2002/2003 - 2006/2007
Institution	Sapienza Università di Roma – Facoltà di Scienze Statistiche
Lecture/Course	Multivariate Statistics Lab (4 CFU, graduate course)
Year	2002/2003
Institution	Sapienza Università di Roma – Facoltà di Scienze Statistiche
Lecture/Course	Statistics (4 CFU, first-year undergraduate course)

Year 2001/2002
Institution Sapienza Università di Roma – Facoltà di Scienze Statistiche
Lecture/Course Data Analysis (Scuola di Specializzazione di Ricerca Operativa e Strategie Decisionali)

Year 1999/2000 - 2001/2002
Institution Sapienza Università di Roma – Facoltà di Scienze Statistiche
Lecture/Course Data Analysis (second-year undergraduate course)

Year 1996/1997 - 1998/1999
Institution Sapienza Università di Roma – Facoltà di Scienze Statistiche
Lecture/Course Statistical Inference (second-year undergraduate course)

Part V - Society memberships, Awards and Honors

Year June 2018 – June 2022
Title **General Secretary** Elect of the SIS Council

Year 2009 - 2013
Title **Elected Member** of the Scientific Council of the Italian Group of Classification and Data Analysis (CLADAG)

Year 2013 - today
Title **Member** of the Specialized Team on Multi-set and multi-way models - ERCIM Working Group on Computational and Methodological Statistics

Year 2007 - today
Title **Member** of the Specialized Team on Mixture Models - ERCIM Working Group on Computational and Methodological Statistics

Year 1999 - today
Title **Member** of the Italian Group of Classification and Data Analysis (CLADAG)

Year 1991 - today
Title **Member** of the Italian Statistical Society (SIS)

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Part VI - PI-principal investigator

Year 2019
Title Statistical models and methods for analysis and classification of transition data: analysis of student mobility (**PI**)

Program University Project
Grant value 11100 Euro + 23787 Euro for Research Fellowship

Year 2014
Title Classification modelling of asymmetric proximity data in explorative and confirmative perspectives (**PI**)

Program University Project
Grant value 10000 Euro

Year 2011
Title Joint classification modelling of consumers and products (**PI**)

Program	University Project
Grant value	3000 Euro
Year	2007
Title	Multivariate Regression in presence of Heterogeneity and Multicollinearity (PI)
Program	University Project
Grant value	5592 Euro
Year	2005
Title	Mixture Models for image segmentation (PI)
Program	University Project
Grant value	5782 Euro
Year	2004
Title	Multiway Cluster-analysis: Performance of Algorithms and Empirical Validity (PI)
Program	Progetto di Ateneo per Professori Visitatori (Prof. H. Kiers)
Grant value	3138 Euro
Year	2003
Title	Modelli confermativi di classificazione e localizzazione di dati di prossimità (PI)
Program	Progetto di Ateneo
Grant value	4437 Euro
Year	2000
Title	Analisi strutturale di dati di dissimilarità (PI)
Program	Progetto di Ateneo
Grant value	12028000 £
Year	1999
Title	Modelli a effetti casuali per l'analisi di dati a struttura complessa in ambito socio-demografico (PI)
Program	Progetto CNR
Grant value	5000000 £
Year	1998
Title	Spazi Ultraminimi in Statistica (PI)
Program	Progetto di Ateneo
Grant value	6281000 £
Year	1996
Title	Metodi multilineari per l'analisi fattoriale di matrici a tre vie (PI)
Program	Progetto CNR
Grant value	5000000 £
Year	1993-1994
Title	Analisi di sensibilità delle componenti principali (PI)
Program	Progetto CNR
Grant value	10000000 £

Part VI - I- Investigator

Year	2020
Title	New statistical learning methods for model-based unsupervised classification of complex and high dimensional data (I)
Program	University Project
Year	2015
Title	Multimode Methods for Classification, Clustering and Dimensionality Reduction (I)
Program	University Project
Year	2012
Title	Statistical Models for Risk Evaluation (I)
Program	PRIN2010
Year	2010

Title	Quality Statistical Evaluation and Risk assessment of Services: innovative multivariate methodologies (I)
Program	PRIN2008
Year	2009
Title	Statistical methods and models for the analysis of multivariate trajectories (I)
Program	University Project
Year	2008
Title	Analisi dell'attività delle giurisdizioni contabili dal 2001 al 2007, secondo un approccio interdisciplinare (I)
Program	Progetto di Ateneo
Year	2006
Title	Metodi statistici multivariati per valutazione simultanea dell'efficacia-efficienza e soddisfazione dei servizi di pubblica utilità (I)
Program	PRIN2006
Year	2004
Title	Nuovi metodi di classificazione e riduzione dimensionale per la customer satisfaction (I)
Program	PRIN2004

Part VII – Research Activities

Keywords Multivariate Analysis, Classification and Clustering, Model-based Clustering, Dimensionality Reduction Methodologies, Asymmetric data

Brief Description

The research activity is mainly focused on the analysis and development of methodologies of Multivariate Statistics, with reference to both theoretical and computational issues.

In particular, the topics of the publications, also in collaboration with Italian and foreign scholars, concern different theoretical fields:

- 1) Classification and dimension reduction in both exploratory and model-based approaches
- 2) Multivariate regression in the presence of heterogeneity and multicollinearity
- 3) Theory of continuous distributions.

The proposed methodologies concern in particular the analysis of three-way data and symmetric/asymmetric proximity data, considering the inclusion of possible external information.

In all papers, "simultaneous models" are proposed which simultaneously optimize a single objective function (for example concerning classification and dimension reduction and/or regression), differently from sequential procedures leading instead to sub-optimal solutions for the general problem.

The methodological proposals are always presented together with efficient algorithms for the application to real cases and with extensive simulation study to investigate the properties and the behavior under different experimental conditions.

Research activity - Organization of Scientific Events (Selected)

Year 2023

Title **Member** of the Scientific Committee of the CLADAG Conference CLADAG 2023, Salerno, September, 2023

Year 2022

Title **Member** of the Local Committee of the International Conference of European Statistics Stakeholders, Roma, October 20-21, 2022

Year 2022

Title **Member** of the Scientific Committee of the 50° Scientific Conference of the Italian Statistical Society SIS2022, Caserta, June 22-24, 2022

Year 2022

Title **Member** of the Scientific Committee of the International Conference “Innovation & Society 5.0: Statistical and Economic Methodologies for Quality Assessment”, Capua, January 27-28, 2022

Year 2021

Title **Member** of the Scientific Committee of the 50° Scientific Conference of the Italian Statistical Society SIS2021, June 21-25, 2021

Year 2020

Title **Member** of the Scientific Committee of the 50° Scientific Conference of the Italian Statistical Society SIS2020, Pisa, June 22-24, 2020

Year 2019

Title **Member** of the Scientific Committee of the Conference of the Italian Statistical Society SIS2019: “Smart Statistics for Smart Applications”, Milano, June 18-21, 2019

Year 2017

Title **Member** of the Awards Committee of the IFCS (International Federation of the Classification Societies) for the IFCS 2017 Conference (Tokyo, Japan)

Year 2014

Title **Member** of the Scientific Committee of the Conference of European Statistics Stakeholders – Methodologists, Producers and Users of European Statistics, Roma, November 24-25, 2014

Year 2012

Title **Chair** the Scientific Committee of the Joint Meeting JCS - CLADAG 2012, Anacapri (Napoli), September 3-4, 2012.

Year 2012

Title **Member** of the Local Organizing Committee of the Conference of the Italian Statistical Society SIS2012, Roma, June 20-22, 2012

Year 2010

Title **Member** of the Scientific Committee of the Joint Meeting GfKI - CLADAG 2010, Firenze, September 8-10, 2010

Year 2010

Title **Member** of the Scientific Committee of the Conference of the Italian Statistical Society SIS2010, Padova, June 17-19, 2010

Year 2006

Title **Member** of the Local Organizing Committee of the International Conference COMPSTAT2006, Roma, Aug 28 – Sep 1, 2006

Year 1999

Title **Member** of the Local Organizing Committee of the Conference CLADAG1999, Roma, Jul 5-6, 1999

Year 1998

Title **Member** of the Local Organizing Committee of the International Conference IFCS1998, Roma, Jul 21-24, 1998

Research activity - Main conference talks as invited speaker (Selected)

Invited speaker (GFKL2002, CLADAG2003, GFKL2005, GFKL2006, COMPSTAT2006, GFKL2007, CLADAG2007, CLADAG2008, IFCS2009, CLADAG2009, COMPSTAT2010, CLADAG2011, JCS&CLADAG2012,

CLADAG2013, PLS2014, CLADAG2014, IFCS2015, ERCIM2019, IES2022, JdS2022, ECDA2022, SMPS2022)

Discussant and Session Organizer in several National and International Conferences

Research activity – Editorial work

Year 2016 - today

Title **Associate Editor** of *Behaviormetrika Journal*

Year 2004 - 2013

Title **Editorial Executive Panel** of *Statistical Methods and Applications Journal (SMA)*

VICARI, D., OKADA, A., RAGOZINI, G., WEIHS, C. (Eds), *Analysis and Modeling of Complex Data in Behavioral and Social Sciences*, series: *Studies in Classification, Data Analysis and Knowledge Organization*, Springer-Verlag, Heidelberg, 2014 (ISBN 978-3-319-06691-2)

Research activity - Referee activity for International journals and series

Computational Statistics and Data Analysis

Annals of Operations Research

Journal of Classification

Statistical Papers

Information Sciences

Advances in Data Analysis and Classification ADAC

Statistics Education Research Journal

Journal of Computation and Simulation

Statistical Methods and Applications

Journal of the Royal Stat. Soc. C.

Psychometrika

Communication in Statistics

“Studies in Theoretical and Applied Statistics” Series by Springer

“Studies in Classification, Data Analysis and Knowledge Organization” Series by Springer-Verlag

Proceedings of the SIS and CLADAG Conferences

Part VIII – Summary of Scientific Achievements

23/05/2023

Total Citations 557 (Google Scholar) / 291 (Scopus)

H Index 14 (Google Scholar) / 10 (Scopus)

Part IX – Other Activities (Selected)

Year 2012 - today

Title Member of the **Collegio Docenti** for the Ph.D. Programme in Statistical Science (Dept. of Statistical Science, Sapienza University, Rome, Italy)

Year 2011 - 2014

Title Member of the **Collegio Docenti** for the Ph.D. Programme in European PhD in Socio-Economic and Statistical Studies (Sapienza University, Rome, Italy)

Year 2017 - today
Title Member of the **Department Board**, Dept. of Statistical Sciences, Sapienza Università di Roma
Year 2017 - 2018
Title Member of the **University Research Committee**, Sapienza Università di Roma

Part X – Publications (Selected)

Publications – International and National Journals

- (1) KIERS, H.A.L., VICARI, D., VICHI M., Simultaneous Classification and Multidimensional Scaling with External Information, *Psychometrika*, 70, 3, 433-460, 2005.
- (2) KOTZ, S., VICARI, D., Survey of Developments in the Theory of Continuous Skewed Distributions, *Metron*, LXIII, 2, 225-261, 2005.
- (3) ALFO', M., NIEDDU, L., VICARI, D., Assessing Quality Using Routine Administrative Data: the Case of Preventable Hospitalizations, *Statistica & Applicazioni*, 3, 5-12, 2005.
- (4) BOCCI, L., VICARI, D., VICHI, M., A Mixture Model for the Classification of Three-Way Proximity Data, *Computational Statistics and Data Analysis*, 50, 7, 1625-1654, 2006.
- (5) ALFO', M., NIEDDU, L., VICARI, D., A finite mixture model for image segmentation, *Statistics and Computing*, 18, 137-150, 2008.
- (6) VICARI, D., VAN DORP, J.R., KOTZ, S., Two-Sided Generalized Topp and Leone (TS-GTL) distributions, *Journal of Applied Statistics*, 10, 1115-1129, 2008.
- (7) VICARI, D., VICHI M., Structural Classification Analysis of Three-Way Dissimilarity Data, *Journal of Classification*, DOI: 10.1007/s00357-008, 26, 121-154, 2009.
- (8) ALFO', M., NIEDDU, L., VICARI, D., Finite Mixture Models for Mapping Spatially Dependent Disease Counts, *Biometrical Journal*, 1, 84-97, 2009.
- (9) MERCURI, E., CASSETTA, M., CAVALLINI, C., VICARI, D., LEONARDI, R., BARBATO, E., Dental anomalies and clinical features in patients with maxillary canine impaction, *The Angle Orthodontist*, (DOI: 10.2319/021712-149.1), 83(1), 22-28, 2013.
- (10) VICARI, D., Discussion on "How to find an appropriate clustering for mixed type variables with application to socio-economic stratification" by Christian Hennig and Tim Liao, *Journal of the Royal Stat. Soc. C*, 62, 359-360, 2013. (DOI: 10.1111/j.1467-9876.2012.01066.x)
- (11) VICARI, D., VICHI, M., On Multivariate Linear Regression for Heterogeneous Data, *Journal of Applied Statistics*, 40 (6), 1209-1230, 2013. (DOI:10.1080/02664763.2013.784896)
- (12) VICARI, D., VAN DORP, J.R., On a bounded bimodal two-sided distribution fitted to the Old-Faithful Geyser Data, *Journal of Applied Statistics*, 40 (9), 1965-1978, 2013. (DOI:10.1080/02664763.2013.800036)
- (13) MERCURI, E., CASSETTA, M., CAVALLINI, C., VICARI, D., LEONARDI, R., BARBATO, E., Skeletal features in patient affected by maxillary canine impaction, *Medicina Oral, Patologia Oral y Cirugia Bucal*, (DOI: 10.4317/medoral.18746), 18(4), 597-602, 2013. (PMID:23722128) ISSN: 1698-4447
- (14) VICARI, D., ALFO', M., Model based clustering of customer choice data, *Comp. Stat. and Data Anal.*, 71, 3-13, 2014 (DOI: 10.1016/j.csda.2013.09.014).
- (15) VICARI, D., Classification of asymmetric proximity data, *Journal of Classification*, 31(3), 386-420, 2014. (DOI: 10.1007/s00357-014- 9159-6).
- (16) MARTELLA F., VICARI, D., VICHI M., Partitioning predictors in multivariate regression models, *Statistics and Computing*, 25(2), 261-272, 2015. (DOI: 10.1007/s11222-013-9430-4)
- (17) BOCCI, L., VICARI, D., GINDCLUS: Generalized INDCLUS with external information, *Psychometrika*, 82(2), 355-381, 2017. (DOI: 10.1007/s11336-016-9526-9).

- (18) SACCO, C., PERNA, S., VICARI, D., ALFO', M., BAUER, C., HOFFMAN, U., FORSTER, J., ZEPP, F., SCHUSTER, A., WAHN, U., KEIL, T., LAU, S. and MATRICARDI P., Growth curves of "normal" serum total IgE levels throughout childhood: a quantile analysis in a birth cohort, *Pediatric Allergy and Immunology*, 28 (6), 525-534, 2017. (DOI: 10.1111/pai.12738).
- (19) VIVO, J., FRANCO, M., VICARI, D., Rethinking an ROC partial area index for evaluating diagnostic performance at a high specificity range, *Advances in Data Analysis and Classification*, 12(3), 683-704, 2018.
- (20) VICARI, D., CLUSKEXT: CLUstering model for SKew-symmetric data including EXTernal information, *Advances in Data Analysis and Classification*, 12, 43-64, 2018 (DOI: 10.1007/s11634-015-0203-0). (published online April 2015).
- (21) VICHI, M., VICARI, D., KIERS, H.A.L., Clustering and Dimensional Reduction for mixed variables, *Behaviormetrika*, 46(2), 243-269, 2019. (DOI: 10.1007/s41237-018-0068-6).
- (22) BOCCI, L., VICARI, D., ROOTCLUS: Searching for "ROOT CLUSTers" in Three-Way Proximity Data, *Psychometrika*, 84 (4), 941-985, 2019. (DOI: 10.1007/s11336-019-09686-1).
- (23) D'AMICO, A., RUSSO, M., ANGELOSANTI, M., BERNARDINI, G., VICARI, D., QUAGLIARINI, E., CURRÀ, E., Built Environment Typologies Prone to Risk: A Cluster Analysis of Open Spaces in Italian Cities, *Sustainability*, 13, 9457, 1-32, 2021.
- (24) BOCCI, L., D'URSO, P., VICARI, D., VITALE, V., A Three-Way Approach for Defining Competitiveness Indexes of the European Regions (NUTS-2), *Social Indicators Research*, 155, 995-1043, 2021.
- (25) GIUDICI, C., TRAPPOLINI, E., VICARI, D., Academic performance of Italian and foreign graduates: the role of citizenship and educational background, *Genus*, 77, (38), 1-23, 2021.
- (26) BOCCI, L., D'URSO, P., VICARI, D., VITALE, V., A Regression Tree-based analysis of the European competitiveness, *Social Indicators Research*, 1-31, 2022.
- (27) VICARI, D., GIORDANI, P., CPclus: Candecomp/Parafac clustering model for three-way data, *Journal of Classification*, in press, 2023.

Publications – Papers in Referred Volumes and Proceedings

- (28) ALFO', M., VICARI, D., NIEDDU, L., Finite mixture models for image segmentation, *Book of Short Papers, Cladag2005*, Parma 6-8 Giugno 2005, 205-208, 2005.
- (29) VICARI, D., VICHI M., Multivariate regression model with clustering of objects and variables, *Book of Short Papers, Cladag2007*, Macerata 12-14 Settembre 2007, 207-210, 2007.
- (30) VICHI M., VICARI, D., KIERS, H.A.L., Factorial K-Means for mixed variables, *Book of Short Papers, Cladag2008*, Caserta 11-13 Giugno 2008, 437-440, 2008.
- (31) ALFO', M., VICARI, D., NIEDDU, L., Modeling spatial dependence in finite mixture models for disease mapping, *Book of Short Papers, Cladag2008*, Caserta 11-13 Giugno 2008, 83-86, 2008.
- (32) ALFO', M., VICARI, D., NIEDDU, L., Regression models for multivariate mixed responses, *Book of Short Papers, Cladag2009*, Catania 9-11 Settembre 2009, 87-90, 2009.
- (33) VICARI, D., ALFO', M., Clustering Discrete Choice Data, in: *Proceedings in Computational Statistics, COMPSTAT2010*, Lechevallier, Y., Saporta, G. (Eds.), Physica-Verlag, Heidelberg, 369-378, 2010.
- (34) ALFO', M., NIEDDU, L., VICARI, D., Testing for dependence in mixed effect models for multivariate mixed responses, in: *"New Perspectives in Statistical Modeling and Data Analysis"*, S. Ingrassia, R. Rocci, M. Vichi (Eds.), series: *Studies in Classification, Data Analysis and Knowledge Organization*, Springer-Verlag, Heidelberg, 369-376, 2011.

- (35) MARTELLA F., VICARI, D., VICHI M., Multivariate regression model based on an optimal partition of predictors, *Book of Short Papers, Cladag2011*, Pavia 7-9 Settembre 2011, 2011 (ISBN: 978-88-9066-390 1).
- (36) VICARI, D., ALFO', M., Model based clustering of consumer choice data, *Book of Short Papers, Cladag2011*, Pavia 7-9 Settembre 2011, 2011 (ISBN: 9788890663901).
- (37) MARTELLA F., VICARI, D., VICHI M., Multivariate regression model based on a partition of predictors, *SCo2011 Proceedings*, Padova 19-21 Settembre 2011, 2011 (ISBN: 978-88-6129-753 1).
- (38) VICARI, D., Partitioning Asymmetric Dissimilarity Data, *Analysis and Modeling of Complex Data in Behavioural and Social Sciences, JCS-Cladag 2012*, Anacapri 3-4 Settembre 2012, Cleup Padova, 1-4, 2012 (ISBN: 978-88-6129-916-0).
- (39) BOCCI, L., VICARI, D., A general model for INDCLUS with external information, *Cladag 2013 9th Meeting of the Classification and Data Analysis Group Book of Abstracts*, T. Minerva, I. Morlini, F. Palumbo (Eds), Modena 18-20 Settembre 2013, 53-56, 2013 (ISBN: 9788867871179).
- (40) NIEDDU, L., VICARI, D., A k-means-Based Recursive Classification Algorithm, *Proceeding of the XXI Rencontre de la Société Francophone de Classification - SFC2014*, pp. xx-xx, 10-12 September 2014, Rabat, Morocco, 2014.
- (41) NIEDDU, L., VICARI, D., Classification with imperfect supervisor: an iterative approach, *Proceedings of the 60th World Statistics Congress of the International Statistical Institute, ISI2015*, Published by the International Statistical Institute, The Hague, The Netherlands, December 2015. (ISBN - 978-90-73592-35-3 © ISI 2015)
- (42) MARTELLA, F., VICARI, D., Regression modeling via latent predictors, *Book of Short Papers, SIS2018*, Palermo 20-22 Giugno 2018, 2018. (ISBN-9788891910233)
- (43) BOCCI, L., VICARI, D., An INDCLUS-type model for occasion-specific complementary partitions, *Book of Short Papers, SIS2018*, Palermo 20-22 Giugno 2018, 2018. (ISBN-9788891910233)
- (44) NIEDDU, L., VICARI, D., Supervised Nested Algorithm for Classification based on K-means, in: "*Advanced Research in Classification and Data Science*", T. Imaizumi, A. Okada, S. Miyamoto, F. Sakaori, Y. Yamamoto, M. Vichi (Eds.), series: *Studies in Classification, Data Analysis and Knowledge Organization*, Springer Nature, Singapore, 79-88, 2020. (ISSN: 1431-8814)
- (45) VICARI, D., Modeling asymmetric exchanges between clusters, in: "*Advanced Studies in Behaviormetrics and Data Science – Essays in Honor of Akinori Okada*", T. Imaizumi, A. Nakayama, S. Yokoyama (Eds.), series: *Behaviormetrics: Quantitative Approaches to Human Behavior*, Springer Nature, Singapore, 297-313, 2020.
- (46) GIUDICI, C., VICARI, D., TRAPPOLINI, E., Tertiary students with migrant background: evidence from a cohort enrolled at Sapienza University, In: *Book of Short Papers, SIS2020*, Pollice, A., Salvati, N., Schirripa Spagnolo F. (Eds), Pearson, 1543-1548, 2020.
- (47) GIUDICI, C., VICARI, D., Gli studenti stranieri nell'Università. Riflessioni a partire dall'esperienza di un Ateneo romano, in: *Osservatorio Romano sulle Migrazioni – XV Rapporto, Centro Studi e Ricerche IDOS, in collaborazione con Istituto di Studi Politici "S. Pio V"*, Roma, 103-107, 2020.
- (48) BOCCI, L., VICARI, D., Analysis of three-way data: an extension of the STATIS method, In: *Book of Short Papers, SIS 2021*, Perna, C., Salvati, N., Schirripa Spagnolo F. (Eds), Pearson, 648-653, 2021.

- (49) VICARI, D., GIORDANI, P., Clustering models for three-way data, In: *Cladag 2021 Book of Abstracts and Short Papers - 13th Meeting of the Classification and Data Analysis Group*, G. C. Porzio, C. Rampichini, C. Bocci (Eds), Firenze University Press, 432-435, 2021.
- (50) GIUDICI, C., ATTANASIO, M., PRIULLA, A., TRAPPOLINI, E., VICARI, D., Gli studenti stranieri nelle università italiane, in: *Dossier Statistico Immigrazione 2021, Centro Studi e Ricerche IDOS, in partenariato con Centro Studi Confronti e Istituto di Studi Politici "S. Pio V"*, Roma, 224-227, 2021.
- (51) BOCCI, L., VICARI, D., A three-way analysis of well-being in Italy over time, In: *IES2022 Book of Short Papers – IES2022 Innovation & Society 5.0: Statistical and Economic Methodologies for Quality Assessment*, R. Lombardo, I. Camminatiello, V. Simonacci (Eds.), PKE, 365-370, 2022.
- (52) DI NUZZO, C., VICARI, D., Asymmetric Spectral Clustering: a comparison between symmetrizations, In: *Book of Short Papers, SIS 2022*, Balzanella, A., Bini, M., Cavicchia, C., Verde, R. (Eds), Pearson, 1510-1515, 2022.
- (53) DI NUZZO, C., INGRASSIA, S., VICARI, D., An INDSCAL-Type Approach for Three-Way Spectral Clustering, in: *"Building Bridges between Soft and Statistical Methodologies for Data Science. SMPS2022"*, Luis A. García-Escudero, Alfonso Gordaliza, Agustín Mayo, María Asunción Lubiano Gomez, Maria Angeles Gil, Przemyslaw Grzegorzewski, Olgierd Hryniewicz (Eds.), series: *Advances in Intelligent Systems and Computing*, Springer Nature, Singapore, 128-135, 2023.
- (54) BOVE, G., VICARI, D., Graphical Analysis and Classification of Asymmetric Proximities, In: *"Facets of Behaviormetrics - The 50th Anniversary of the Behaviormetric Society"*, A. Okada, K. Shigemasu, R. Yoshino, S. Yokoyama (Eds.), series: *Behaviormetrics: Quantitative Approaches to Human Behavior*, Springer Nature, Singapore, in press, 2023.

Publications – Monograph

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