Francesco Bartolucci

List of Publications by Year
in descending order

120	1,885	257450 24	377865 34
papers	citations	h-index	g-index

125	125	125	1435
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assessing User Satisfaction in the Era of User Experience: Comparison of the SUS, UMUX, and UMUX-LITE as a Function of Product Experience. International Journal of Human-Computer Interaction, 2015, 31, 484-495.	4.8	99
2	A Multivariate Extension of the Dynamic Logit Model for Longitudinal Data Based on a Latent Markov Heterogeneity Structure. Journal of the American Statistical Association, 2009, 104, 816-831.	3.1	91
3	A class of multidimensional IRT models for testing unidimensionality and clustering items. Psychometrika, 2007, 72, 141-157.	2.1	67
4	Latent Markov models: a review of a general framework for the analysis of longitudinal data with covariates. Test, 2014, 23, 433-465.	1.1	56
5	A Dynamic Model for Binary Panel Data With Unobserved Heterogeneity Admitting a âˆšn-Consistent Conditional Estimator. Econometrica, 2010, 78, 719-733.	4.2	51
6	LMest: An R Package for Latent Markov Models for Longitudinal Categorical Data. Journal of Statistical Software, 2017, 81, .	3.7	51
7	Likelihood inference for a class of latent Markov models under linear hypotheses on the transition probabilities. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2006, 68, 155-178.	2.2	46
8	A latent Markov model for detecting patterns of criminal activity. Journal of the Royal Statistical Society Series A: Statistics in Society, 2007, 170, 115-132.	1.1	44
9	A Discrete Time Event-History Approach to Informative Drop-Out in Mixed Latent Markov Models with Covariates. Biometrics, 2015, 71, 80-89.	1.4	43
10	Latent Markov model for longitudinal binary data: An application to the performance evaluation of nursing homes. Annals of Applied Statistics, 2009, 3, .	1.1	41
11	Positive Quadrant Dependence and Marginal Modeling in Two-Way Tables With Ordered Margins. Journal of the American Statistical Association, 2001, 96, 1497-1505.	3.1	38
12	The use of mixtures for dealing with non-normal regression errors. Computational Statistics and Data Analysis, 2005, 48, 821-834.	1.2	38
13	Employment status and perceived health condition: longitudinal data from Italy. BMC Public Health, 2014, 14, 946.	2.9	38
14	Assessment of School Performance Through a Multilevel Latent Markov Rasch Model. Journal of Educational and Behavioral Statistics, 2011, 36, 491-522.	1.7	36
15	A Class of Multidimensional Latent Class IRT Models for Ordinal Polytomous Item Responses. Communications in Statistics - Theory and Methods, 2014, 43, 787-800.	1.0	36
16	MultiLCIRT: An R package for multidimensional latent class item response models. Computational Statistics and Data Analysis, 2014, 71, 971-985.	1.2	35
17	Efficient Bayes factor estimation from the reversible jump output. Biometrika, 2006, 93, 41-52.	2.4	32
18	A recursive algorithm for Markov random fields. Biometrika, 2002, 89, 724-730.	2.4	29

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19	Longitudinal Analysis of Self-Reported Health Status by Mixture Latent Auto-Regressive Models. Journal of the Royal Statistical Society Series C: Applied Statistics, 2014, 63, 267-288.	1.0	29
20	Effects of individual and social factors on preterm birth and low birth weight: empirical evidence from regional data in Italy. International Journal of Public Health, 2012, 57, 261-268.	2.3	28
21	A Class of Latent Marginal Models for Captureâ€"Recapture Data With Continuous Covariates. Journal of the American Statistical Association, 2006, 101, 786-794.	3.1	27
22	Extended RC Association Models Allowing for Order Restrictions and Marginal Modeling. Journal of the American Statistical Association, 2002, 97, 1192-1199.	3.1	26
23	A likelihood ratio test for MTP_2 within binary variables. Annals of Statistics, 2000, 28, .	2.6	26
24	Pseudo conditional maximum likelihood estimation of the dynamic logit model for binary panel data. Journal of Econometrics, 2012, 170, 102-116.	6.5	25
25	Analysis of Capture-Recapture Data with a Rasch-Type Model Allowing for Conditional Dependence and Multidimensionality. Biometrics, 2001, 57, 714-719.	1.4	24
26	Modeling Partial Compliance Through Copulas in a Principal Stratification Framework. Journal of the American Statistical Association, 2011, 106, 469-479.	3.1	24
27	A Class of Latent Markov Models for Captureâ€"Recapture Data Allowing for Time, Heterogeneity, and Behavior Effects. Biometrics, 2007, 63, 568-578.	1.4	22
28	Three-step estimation of latent Markov models with covariates. Computational Statistics and Data Analysis, 2015, 83, 287-301.	1.2	21
29	A note on the mixture transition distribution and hidden Markov models. Journal of Time Series Analysis, 2010, 31, 132-138.	1.2	20
30	Testing for time-invariant unobserved heterogeneity in generalized linear models for panel data. Journal of Econometrics, 2015, 184, 111-123.	6.5	20
31	Modified Profile Likelihood for Fixed-Effects Panel Data Models. Econometric Reviews, 2016, 35, 1271-1289.	1.1	20
32	A multilevel finite mixture item response model to cluster examinees and schools. Advances in Data Analysis and Classification, 2016, 10, 53-70.	1.4	20
33	GDP dynamics and unemployment changes in developed and developing countries. Applied Economics, 2018, 50, 3338-3356.	2.2	20
34	Differences in Birthweight Outcomes: A Longitudinal Study Based on Siblings. International Journal of Environmental Research and Public Health, 2014, 11, 6472-6484.	2.6	19
35	A spatio-temporal model based on discrete latent variables for the analysis of COVID-19 incidence. Spatial Statistics, 2022, 49, 100504.	1.9	19
36	Likelihood inference on the underlying structure of IRT models. Psychometrika, 2005, 70, 31-43.	2.1	18

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37	A penalized version of the empirical likelihood ratio for the population mean. Statistics and Probability Letters, 2007, 77, 104-110.	0.7	18
38	Causal Latent Markov Model for the Comparison of Multiple Treatments in Observational Longitudinal Studies. Journal of Educational and Behavioral Statistics, 2016, 41, 146-179.	1.7	17
39	Maximum likelihood estimation of a latent variable time-series model. Applied Stochastic Models in Business and Industry, 2001, 17, 5-17.	1.5	16
40	Likelihood-based inference for asymmetric stochastic volatility models. Computational Statistics and Data Analysis, 2003, 42, 445-449.	1.2	16
41	Testing for positive association in contingency tables with fixed margins. Computational Statistics and Data Analysis, 2004, 47, 195-210.	1.2	14
42	Focused Information Criterion for Captureâ€“Recapture Models for Closed Populations. Scandinavian Journal of Statistics, 2008, 35, 629-649.	1.4	14
43	A Multidimensional Finite Mixture Structural Equation Model for Nonignorable Missing Responses to Test Items. Structural Equation Modeling, 2015, 22, 352-365.	3.8	14
44	A sharedâ€parameter continuousâ€time hidden Markov and survival model for longitudinal data with informative dropout. Statistics in Medicine, 2019, 38, 1056-1073.	1.6	14
45	A new class of unbiased estimators of the variance of the systematic sample mean. Journal of Statistical Planning and Inference, 2006, 136, 1512-1525.	0.6	13
46	Dimensionality of the Latent Structure and Item Selection Via Latent Class Multidimensional IRT Models. Psychometrika, 2012, 77, 782-802.	2.1	13
47	Pairwise Likelihood Inference for Nested Hidden Markov Chain Models for Multilevel Longitudinal Data. Journal of the American Statistical Association, 2016, 111, 216-228.	3.1	12
48	Dealing with reciprocity in dynamic stochastic block models. Computational Statistics and Data Analysis, 2018, 123, 86-100.	1.2	12
49	Multidimensional Latent Markov Models in a Developmental Study of Inhibitory Control and Attentional Flexibility in Early Childhood. Psychometrika, 2010, 75, 725-743.	2.1	11
50	Bayesian inference through encompassing priors and importance sampling for a class of marginal models for categorical data. Computational Statistics and Data Analysis, 2012, 56, 4067-4080.	1.2	11
51	A finite mixture latent trajectory model for modeling ultrarunnersâ€™ behavior in a 24-hour race. Journal of Quantitative Analysis in Sports, 2015, 11, .	1.0	11
52	Bedside sonography assessment of extravascular lung water increase after major pulmonary resection in non-small cell lung cancer patients. Journal of Thoracic Disease, 2018, 10, 4077-4084.	1.4	10
53	A multivariate statistical approach to predict COVIDâ€19 count data with epidemiological interpretation and uncertainty quantification. Statistics in Medicine, 2021, 40, 5351-5372.	1.6	10
54	Clustering Univariate Observations via Mixtures of Unimodal Normal Mixtures. Journal of Classification, 2005, 22, 203-219.	2.2	8

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55	A generalized multiple-try version of the Reversible Jump algorithm. Computational Statistics and Data Analysis, 2014, 72, 298-314.	1.2	8
56	A comparison between the gâ€index and the hâ€index based on concentration. Journal of the Association for Information Science and Technology, 2015, 66, 2708-2710.	2.9	8
57	Information matrix for hidden Markov models with covariates. Statistics and Computing, 2015, 25, 515-526.	1.5	8
58	A Nonparametric Multidimensional Latent Class IRT Model in a Bayesian Framework. Psychometrika, 2017, 82, 952-978.	2.1	8
59	A multilevel latent Markov model for the evaluation of nursing homes' performance. Biometrical Journal, 2018, 60, 962-978.	1.0	8
60	Longitudinal Networks of Dyadic Relationships Using Latent Trajectories: Evidence from The European Interbank Market. Journal of the Royal Statistical Society Series C: Applied Statistics, 2020, 69, 711-739.	1.0	8
61	Ranking scientific journals via latent class models for polytomous item response data. Journal of the Royal Statistical Society Series A: Statistics in Society, 2015, 178, 1025-1049.	1.1	7
62	Evaluation of Student Performance through a Multidimensional Finite Mixture IRT Model. Multivariate Behavioral Research, 2017, 52, 732-746.	3.1	7
63	On the role of latent variable models in the era of big data. Statistics and Probability Letters, 2018, 136, 165-169.	0.7	7
64	Latent Ignorability and Item Selection for Nursing Home Case-Mix Evaluation. Journal of Classification, 2018, 35, 172-193.	2.2	7
65	An exact algorithm for time-dependent variational inference for the dynamic stochastic block model. Pattern Recognition Letters, 2020, 138, 362-369.	4.2	7
66	cquad: An R and Stata Package for Conditional Maximum Likelihood Estimation of Dynamic Binary Panel Data Models. Journal of Statistical Software, 2017, 78, .	3.7	7
67	On the approximation of the quadratic exponential distribution in a latent variable context. Biometrika, 2007, 94, 745-754.	2.4	6
68	Adaptive Quadrature for Maximum Likelihood Estimation of a Class of Dynamic Latent Variable Models. Computational Economics, 2017, 49, 599-622.	2.6	6
69	Testing for state dependence in binary panel data with individual covariates by a modified quadratic exponential model. Econometric Reviews, 2018, 37, 61-88.	1.1	6
70	A joint model for longitudinal and survival data based on an AR(1) latent process. Statistical Methods in Medical Research, 2018, 27, 1285-1311.	1.5	6
71	Validity of the 36-item Persian (Farsi) version of the world health organization disability assessment schedule (WHODAS) 2.0. International Journal of Mental Health, 2019, 48, 14-39.	1.3	6
72	Discrete Latent Variable Models. Annual Review of Statistics and Its Application, 2022, 9, 425-452.	7.0	6

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73	On estimating the variance of the systematic sample mean. Journal of the Italian Statistical Society, 1998, 7, 185-196.	0.1	5
74	Modelling quality of life variables with non-parametric mixtures. Environmetrics, 2004, 15, 519-528.	1.4	5
75	Maximum likelihood estimation of an extended latent Markov model for clustered binary panel data. Computational Statistics and Data Analysis, 2007, 51, 3470-3483.	1.2	5
76	On the conditional logistic estimator in twoâ€arm experimental studies with nonâ€compliance and beforeâ€“after binary outcomes. Statistics in Medicine, 2010, 29, 1411-1429.	1.6	5
77	On a possible decomposition of the hâ€index. Journal of the Association for Information Science and Technology, 2012, 63, 2126-2127.	2.6	5
78	Preterm Birth: Analysis of Longitudinal Data on Siblings Based on Random-Effects Logit Models. Frontiers in Public Health, 2016, 4, 278.	2.7	5
79	Item selection by latent class-based methods: an application to nursing home evaluation. Advances in Data Analysis and Classification, 2016, 10, 245-262.	1.4	5
80	Two-Tier Latent Class IRT Models in R. R Journal, 2016, 8, 139.	1.8	5
81	Exploring the dependencies among main cryptocurrency logâ€returns: A hidden Markov model. Economic Notes, 2022, 51, e12193.	0.4	5
82	Developments of the Markov chain approach within the distribution theory of runs. Computational Statistics and Data Analysis, 2001, 36, 107-118.	1.2	4
83	A New Constant Memory Recursion for Hidden Markov Models. Journal of Computational Biology, 2014, 21, 99-117.	1.6	4
84	Misspecification test for random effects in generalized linear finite-mixture models for clustered binary and ordered data. Econometrics and Statistics, 2017, 3, 112-131.	0.8	4
85	A Latent Class Growth Model for Migrantsâ€™ Remittances: An Application to the German Socio-Economic Panel. Journal of the Royal Statistical Society Series A: Statistics in Society, 2019, 182, 1607-1632.	1.1	4
86	Answering Two Biological Questions with a Latent Class Model via MCMC Applied to Capture-Recapture Data. , 2004, , 7-23.		4
87	Point Estimation Methods with Applications to Item Response Theory Models. , 2010, , 366-373.		3
88	Modified Profile Likelihood for Panel Data Models. SSRN Electronic Journal, 2012, , .	0.4	3
89	Causal inference in paired twoâ€arm experimental studies under noncompliance with application to prognosis of myocardial infarction. Statistics in Medicine, 2013, 32, 4348-4366.	1.6	3
90	Mixtures of equispaced normal distributions and their use for testing symmetry with univariate data. Computational Statistics and Data Analysis, 2014, 71, 262-272.	1.2	3

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91	Primary-school class composition and the development of social capital. Socio-Economic Planning Sciences, 2020, 72, 100874.	5.0	3
92	Modelling Nonstationary Spatial Lag Models with Hidden Markov Random Fields. Spatial Statistics, 2021, 44, 100522.	1.9	3
93	Are attitudes toward immigration changing in Europe? An analysis based on latent class IRT models. Advances in Data Analysis and Classification, 2022, 16, 235-271.	1.4	3
94	Rejoinder on: Latent Markov models: a review of a general framework for the analysis of longitudinal data with covariates. Test, 2014, 23, 484-486.	1.1	2
95	Composite Likelihood Inference in a Discrete Latent Variable Model for Two-Way â€œClustering-by-Segmentationâ€•Problems. Journal of Computational and Graphical Statistics, 2017, 26, 388-402.	1.7	2
96	Modeling Longitudinal Data by Latent Markov Models with Application to Educational and Psychological Measurement. Studies in Classification, Data Analysis, and Knowledge Organization, 2014, , 11-19.	0.2	2
97	A Hierarchical Mixture Model for Gene Expression Data. , 2005, , 267-274.		1
98	Pseudo Conditional Maximum Likelihood Estimation of the Dynamic Logit Model for Binary Panel Data. SSRN Electronic Journal, 2009, , .	0.4	1
99	Item Selection by an Extended Latent Class Model: An Application to Nursing Homes Evaluation. SSRN Electronic Journal, 2012, , .	0.4	1
100	A Multidimensional Latent Class IRT Model for Non-Ignorable Missing Responses. SSRN Electronic Journal, 0, , .	0.4	1
101	Comment on the paper â€œOn the memory complexity of the forwardâ€“backward algorithm,â€•by Khreich W., Granger E., Miri A., Sabourin, R.. Pattern Recognition Letters, 2014, 38, 15-19.	4.2	1
102	Latent variable models for the analysis of socio-economic data. Metron, 2015, 73, 151-154.	1.2	1
103	Multilevel Model-Based Clustering: A New Proposal of Maximum-A-Posteriori Assignment. Studies in Classification, Data Analysis, and Knowledge Organization, 2020, , 3-17.	0.2	1
104	Impact Evaluation of Job Training Programs by a Latent Variable Model. Studies in Classification, Data Analysis, and Knowledge Organization, 2011, , 65-73.	0.2	1
105	A bivariate finite mixture growth model with selection. Advances in Data Analysis and Classification, 2021, 15, 759-793.	1.4	1
106	A hidden Markov spaceâ€“time model for mapping the dynamics of global access to food. Journal of the Royal Statistical Society Series A: Statistics in Society, 2022, 185, 246-266.	1.1	1
107	Male recognition bias in sex assignment based on visual stimuli. Scientific Reports, 2022, 12, 8156.	3.3	1
108	The effect of employment condition on perceived health status in Italy in the period 2009-2012. European Journal of Public Health, 2016, 26, .	0.3	0

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109	Editorial: Special section on latent variable models for longitudinal data. Biometrical Journal, 2017, 59, 781-782.	1.0	0
110	Job satisfaction and compensating wage differentials: Evidence from Russia. CESifo Economic Studies, 2017, , .	0.5	0
111	Comment on: The class of CUB models: statistical foundations, inferential issues and empirical evidence. Statistical Methods and Applications, 2019, 28, 437-439.	1.2	0
112	Reflections on Murray Aitkin's contributions to nonparametric mixture models and Bayes factors. Statistical Modelling, 2022, 22, 33-45.	1.1	0
113	Conditional inference for binary panel data models with predetermined covariates. Econometrics and Statistics, 2021, , .	0.8	0
114	Maximum Likelihood Estimation of an Extended Latent Markov Model for Clustered Binary Panel Data. SSRN Electronic Journal, 0, , .	0.4	0
115	A Causal Analysis of Motherâ€™s Education on Birth Inequalities. SSRN Electronic Journal, 0, , .	0.4	0
116	Modeling Longitudinal Data with Application to Educational and Psychological Measurement. SSRN Electronic Journal, 0, , .	0.4	0
117	A Finite Mixture Latent Trajectory Model for Hirings and Separations in the Labor Market. , 2016, , 9-20.		0
118	Latent class: Rasch models and marginal extensions. , 2017, , 291-304.		0
119	Inverse-Probability-of-Treatment Weighting for Endogeneity Correction: A Hidden Markov Model for Assessing Effects of Multiple Direct Mail Campaigns. SSRN Electronic Journal, 0, , .	0.4	0
120	Recursive Computation of the Conditional Probability Function of the Quadratic Exponential Model for Binary Panel Data. Computational Economics, 0, , 1.	2.6	0