

Gerhard Tutz

List of Publications by Year in descending order

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149
papers

6,039
citations

186265

28
h-index

79698

73
g-index

158
all docs

158
docs citations

158
times ranked

7068
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneity in general multinomial choice models. <i>Statistical Methods and Applications</i> , 2023, 32, 129-148.	1.2	2
2	Ordinal regression: A review and a taxonomy of models. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2022, 14, e1545.	3.9	22
3	Multivariate ordinal random effects models including subject and group specific response style effects. <i>Statistical Modelling</i> , 2022, 22, 409-429.	1.1	1
4	Ordinal Trees and Random Forests: Score-Free Recursive Partitioning and Improved Ensembles. <i>Journal of Classification</i> , 2022, 39, 241-263.	2.2	4
5	Sparsen Ordinal Regression Models Based on Parametric and Additive Location-Shift Approaches. <i>International Statistical Review</i> , 2022, 90, 306-327.	1.9	1
6	Nearest neighbor imputation for categorical data by weighting of attributes. <i>Information Sciences</i> , 2022, 592, 306-319.	6.9	7
7	Item Response Thresholds Models: A General Class of Models for Varying Types of Items. <i>Psychometrika</i> , 2022, 87, 1238-1269.	2.1	2
8	Hierarchical Models for the Analysis of Likert Scales in Regression and Item Response Analysis. <i>International Statistical Review</i> , 2021, 89, 18-35.	1.9	10
9	Uncertain Choices: The Heterogeneous Multinomial Logit Model. <i>Sociological Methodology</i> , 2021, 51, 86-111.	2.4	2
10	Tree-structured scale effects in binary and ordinal regression. <i>Statistics and Computing</i> , 2021, 31, 1.	1.5	1
11	Transition models for count data: a flexible alternative to fixed distribution models. <i>Statistical Methods and Applications</i> , 2021, 30, 1259.	1.2	1
12	Imputation methods for high-dimensional mixed-type datasets by nearest neighbors. <i>Computers in Biology and Medicine</i> , 2021, 135, 104577.	7.0	11
13	Multiple imputation using nearest neighbor methods. <i>Information Sciences</i> , 2021, 570, 500-516.	6.9	32
14	The effect of explanatory variables on income: A tool that allows a closer look at the differences in income. <i>Econometrics and Statistics</i> , 2020, 16, 28-41.	0.8	2
15	Subjective heterogeneity in response attitude for multivariate ordinal outcomes. <i>Econometrics and Statistics</i> , 2020, 14, 145-158.	0.8	4
16	Tree-based modeling of time-varying coefficients in discrete time-to-event models. <i>Lifetime Data Analysis</i> , 2020, 26, 545-572.	0.9	6
17	Modelling heterogeneity: on the problem of group comparisons with logistic regression and the potential of the heterogeneous choice model. <i>Advances in Data Analysis and Classification</i> , 2020, 14, 517-542.	1.4	2
18	On the structure of ordered latent trait models. <i>Journal of Mathematical Psychology</i> , 2020, 96, 102346.	1.8	1

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19	Uncertainty in Latent Trait Models. <i>Applied Psychological Measurement</i> , 2020, 44, 447-464.	1.0	5
20	Comments on The class of cub models: statistical foundations, inferential issues and empirical evidence by D. Piccolo and R. Simone. <i>Statistical Methods and Applications</i> , 2019, 28, 471-475.	1.2	0
21	Flexible uncertainty in mixture models for ordinal responses. <i>Journal of Applied Statistics</i> , 2019, 46, 1582-1601.	1.3	5
22	Tree-structured modelling of varying coefficients. <i>Statistics and Computing</i> , 2019, 29, 217-229.	1.5	5
23	BTLasso : A Common Framework and Software Package for the Inclusion and Selection of Covariates in Bradley-Terry Models. <i>Journal of Statistical Software</i> , 2019, 88, .	3.7	1
24	Modelling uncertainty and response styles in ordinal data. <i>Statistica Neerlandica</i> , 2018, 72, 224-245.	1.6	20
25	Binary Response Models with Underlying Heterogeneity: Identification and Interpretation of Effects. <i>European Sociological Review</i> , 2018, 34, 211-221.	2.3	7
26	Response Styles in the Partial Credit Model. <i>Applied Psychological Measurement</i> , 2018, 42, 407-427.	1.0	19
27	Discrimination measures for discrete time-to-event predictions. <i>Econometrics and Statistics</i> , 2018, 7, 153-164.	0.8	11
28	Item-Focused Trees for the Detection of Differential Item Functioning in Partial Credit Models. <i>Educational and Psychological Measurement</i> , 2018, 78, 781-804.	2.4	8
29	Analysis of the importance of on-field covariates in the German Bundesliga. <i>Journal of Applied Statistics</i> , 2018, 45, 1561-1578.	1.3	18
30	Tree-structured modelling of categorical predictors in generalized additive regression. <i>Advances in Data Analysis and Classification</i> , 2018, 12, 737-758.	1.4	5
31	Tree-Structured Clustering in Fixed Effects Models. <i>Journal of Computational and Graphical Statistics</i> , 2018, 27, 380-392.	1.7	4
32	Variable selection in discrete survival models including heterogeneity. <i>Lifetime Data Analysis</i> , 2017, 23, 305-338.	0.9	8
33	A uniform framework for the combination of penalties in generalized structured models. <i>Advances in Data Analysis and Classification</i> , 2017, 11, 97-120.	1.4	29
34	Mixture models for ordinal responses to account for uncertainty of choice. <i>Advances in Data Analysis and Classification</i> , 2017, 11, 281-305.	1.4	23
35	Modelling Clustered Heterogeneity: Fixed Effects, Random Effects and Mixtures. <i>International Statistical Review</i> , 2017, 85, 204-227.	1.9	12
36	Selection of Effects in Cox Frailty Models by Regularization Methods. <i>Biometrics</i> , 2017, 73, 846-856.	1.4	11

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37	Missing value imputation for gene expression data by tailored nearest neighbors. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2017, 16, 95-106.	0.6	16
38	Subject-specific modelling of paired comparison data: A lasso-type penalty approach. <i>Statistical Modelling</i> , 2017, 17, 223-243.	1.1	14
39	Additive mixed models with approximate Dirichlet process mixtures: the EM approach. <i>Statistics and Computing</i> , 2016, 26, 73-92.	1.5	3
40	Regularized regression for categorical data. <i>Statistical Modelling</i> , 2016, 16, 161-200.	1.1	44
41	A Flexible Link Function for Discrete-Time Duration Models. <i>Jahrbucher Fur Nationalokonomie Und Statistik</i> , 2016, 236, 455-481.	0.7	1
42	Detection of Uniform and Nonuniform Differential Item Functioning by Item-Focused Trees. <i>Journal of Educational and Behavioral Statistics</i> , 2016, 41, 559-592.	1.7	13
43	Random forests for functional covariates. <i>Journal of Chemometrics</i> , 2016, 30, 715-725.	1.3	14
44	Improved nearest neighbor classifiers by weighting and selection of predictors. <i>Statistics and Computing</i> , 2016, 26, 1039-1057.	1.5	6
45	Item-focussed Trees for the Identification of Items in Differential Item Functioning. <i>Psychometrika</i> , 2016, 81, 727-750.	2.1	16
46	Response Styles in Rating Scales. <i>Journal of Educational and Behavioral Statistics</i> , 2016, 41, 239-268.	1.7	14
47	Variable selection for discrete competing risks models. <i>Quality and Quantity</i> , 2016, 50, 1589-1610.	3.7	13
48	Comparison of Maximum Likelihood with Conditional Pairwise Likelihood Estimation of Person Parameters in the Rasch Model. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2016, 45, 2007-2017.	1.2	1
49	Modeling Discrete Time-to-Event Data. <i>Springer Series in Statistics</i> , 2016, , .	0.9	79
50	A survival tree method for the analysis of discrete event times in clinical and epidemiological studies. <i>Statistics in Medicine</i> , 2016, 35, 734-751.	1.6	21
51	Detection of differential item functioning in Rasch models by boosting techniques. <i>British Journal of Mathematical and Statistical Psychology</i> , 2016, 69, 80-103.	1.4	7
52	Generalized additive models with unknown link function including variable selection. <i>Journal of Applied Statistics</i> , 2016, 43, 2866-2885.	1.3	2
53	Random forest for ordinal responses: Prediction and variable selection. <i>Computational Statistics and Data Analysis</i> , 2016, 96, 57-73.	1.2	125
54	Multiple-Spell Analysis. <i>Springer Series in Statistics</i> , 2016, , 213-223.	0.9	0

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55	Tree-Based Approaches. Springer Series in Statistics, 2016, , 129-148.	0.9	0
56	High-Dimensional Models: Structuring and Selection of Predictors. Springer Series in Statistics, 2016, , 149-165.	0.9	0
57	Evaluation and Model Choice. Springer Series in Statistics, 2016, , 73-104.	0.9	0
58	Competing Risks Models. Springer Series in Statistics, 2016, , 167-184.	0.9	0
59	Frailty Models and Heterogeneity. Springer Series in Statistics, 2016, , 185-211.	0.9	0
60	Basic Regression Models. Springer Series in Statistics, 2016, , 35-72.	0.9	0
61	Subject-specific Bradley-Terry-Luce models with implicit variable selection. Statistical Modelling, 2015, 15, 526-547.	1.1	5
62	Modeling electoral choices in multiparty systems with high-dimensional data: A regularized selection of parameters using the lasso approach. Journal of Choice Modelling, 2015, 16, 23-42.	2.3	8
63	Variable selection in general multinomial logit models. Computational Statistics and Data Analysis, 2015, 82, 207-222.	1.2	33
64	Extended ordered paired comparison models with application to football data from German Bundesliga. AStA Advances in Statistical Analysis, 2015, 99, 209-227.	0.9	14
65	Nearest neighbor ensembles for functional data with interpretable feature selection. Chemometrics and Intelligent Laboratory Systems, 2015, 146, 186-197.	3.5	12
66	Prediction of major international soccer tournaments based on team-specific regularized Poisson regression: An application to the FIFA World Cup 2014. Journal of Quantitative Analysis in Sports, 2015, 11, .	1.0	26
67	Improved methods for the imputation of missing data by nearest neighbor methods. Computational Statistics and Data Analysis, 2015, 90, 84-99.	1.2	99
68	Selection and Fusion of Categorical Predictors with L0-Type Penalties. Statistical Modelling, 2015, 15, 389-410.	1.1	6
69	A Penalty Approach to Differential Item Functioning in Rasch Models. Psychometrika, 2015, 80, 21-43.	2.1	67
70	Regularization Methods in Economic Forecasting. Advanced Studies in Theoretical and Applied Econometrics, 2015, , 61-80.	0.1	2
71	Regularization and model selection with categorical predictors and effect modifiers in generalized linear models. Statistical Modelling, 2014, 14, 157-177.	1.1	15
72	Variable selection for generalized linear mixed models by L1-penalized estimation. Statistics and Computing, 2014, 24, 137-154.	1.5	163

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73	Rating Scales as Predictorsâ€”The Old Question of Scale Level and Some Answers. <i>Psychometrika</i> , 2014, 79, 357-376.	2.1	20
74	Clustering in linearâ€”mixed models with a group fused lasso penalty. <i>Biometrical Journal</i> , 2014, 56, 44-68.	1.0	16
75	Ridge estimation for multinomial logit models with symmetric side constraints. <i>Computational Statistics</i> , 2013, 28, 1017-1034.	1.5	9
76	Multinomial logit models with implicit variable selection. <i>Advances in Data Analysis and Classification</i> , 2013, 7, 393-416.	1.4	11
77	Likelihood-Based Boosting in Binary and Ordinal Random Effects Models. <i>Journal of Computational and Graphical Statistics</i> , 2013, 22, 356-378.	1.7	9
78	Visualization of Categorical Response Models: From Data Glyphs to Parameter Glyphs. <i>Journal of Computational and Graphical Statistics</i> , 2013, 22, 156-177.	1.7	11
79	Proportional Odds Models with Highâ€”Dimensional Data Structure. <i>International Statistical Review</i> , 2013, 81, 388-406.	1.9	3
80	Clustering in linear mixed models with approximate Dirichlet process mixtures using EM algorithm. <i>Statistical Modelling</i> , 2013, 13, 41-67.	1.1	22
81	Regularization and Model Selection with Categorical Covariates. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , 2013, , 215-222.	0.2	1
82	Shrinkage and variable selection by polytopes. <i>Journal of Statistical Planning and Inference</i> , 2012, 142, 48-64.	0.6	1
83	Nonparametric estimation of the link function including variable selection. <i>Statistics and Computing</i> , 2012, 22, 545-561.	1.5	6
84	Boosting techniques for nonlinear time series models. <i>AStA Advances in Statistical Analysis</i> , 2012, 96, 99-122.	0.9	32
85	Selection of ordinally scaled independent variables with applications to international classification of functioning core sets. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2011, 60, 377-395.	1.0	22
86	Estimation of single-index models based on boosting techniques. <i>Statistical Modelling</i> , 2011, 11, 203-217.	1.1	10
87	Sparse modeling of categorical explanatory variables. <i>Annals of Applied Statistics</i> , 2010, 4, .	1.1	67
88	Feature selection guided by structural information. <i>Annals of Applied Statistics</i> , 2010, 4, .	1.1	34
89	Guest Editorial: Regularisation Methods in Regression and Classification. <i>Statistics and Computing</i> , 2010, 20, 117-118.	1.5	1
90	Feature Extraction in Signal Regression: A Boosting Technique for Functional Data Regression. <i>Journal of Computational and Graphical Statistics</i> , 2010, 19, 154-174.	1.7	23

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91	Generalized Linear Mixed Models Based on Boosting. , 2010, , 197-215.		13
92	Supervised feature selection in mass spectrometry-based proteomic profiling by blockwise boosting. Bioinformatics, 2009, 25, 1076-1077.	4.1	10
93	An introduction to recursive partitioning: Rationale, application, and characteristics of classification and regression trees, bagging, and random forests.. Psychological Methods, 2009, 14, 323-348.	3.5	1,831
94	Variable scaling and nearest neighbor methods. Journal of Chemometrics, 2009, 23, 149-151.	1.3	3
95	Penalized regression with correlation-based penalty. Statistics and Computing, 2009, 19, 239-253.	1.5	58
96	Variable Selection and Model Choice in Geoaddivitive Regression Models. Biometrics, 2009, 65, 626-634.	1.4	98
97	Penalized Regression with Ordinal Predictors. International Statistical Review, 2009, 77, 345-365.	1.9	55
98	Feature selection and weighting by nearest neighbor ensembles. Chemometrics and Intelligent Laboratory Systems, 2009, 99, 30-38.	3.5	14
99	Boosting nonlinear additive autoregressive time series. Computational Statistics and Data Analysis, 2009, 53, 2453-2464.	1.2	13
100	A comparison of methods for the fitting of generalized additive models. Statistics and Computing, 2008, 18, 87-99.	1.5	30
101	Penalized Partial Least Squares with applications to B-spline transformations and functional data. Chemometrics and Intelligent Laboratory Systems, 2008, 94, 60-69.	3.5	55
102	Modelling price paths in on-line auctions: smoothing sparse and unevenly sampled curves by using semiparametric mixed models. Journal of the Royal Statistical Society Series C: Applied Statistics, 2008, 57, 127-148.	1.0	18
103	Boosting Correlation Based Penalization in Generalized Linear Models. , 2008, , 165-180.		0
104	On association in regression: the coefficient of determination revisited. Statistics, 2008, 42, 1-24.	0.6	7
105	Generalized Smooth Monotonic Regression in Additive Modeling. Journal of Computational and Graphical Statistics, 2007, 16, 165-188.	1.7	22
106	Generalized monotonic regression based on B-splines with an application to air pollution data. Biostatistics, 2007, 8, 654-673.	1.5	61
107	Knot selection by boosting techniques. Computational Statistics and Data Analysis, 2007, 51, 4605-4621.	1.2	14
108	Boosting ridge regression. Computational Statistics and Data Analysis, 2007, 51, 6044-6059.	1.2	85

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109	A boosting approach to flexible semiparametric mixed models. <i>Statistics in Medicine</i> , 2007, 26, 2872-2900.	1.6	21
110	A Boosting Approach to Generalized Monotonic Regression. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , 2007, , 245-254.	0.2	0
111	Modelling beyond regression functions: an application of multimodal regression to speedâ€“flow data. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2006, 55, 461-475.	1.0	30
112	Generalized Additive Modeling with Implicit Variable Selection by Likelihood-Based Boosting. <i>Biometrics</i> , 2006, 62, 961-971.	1.4	141
113	Identification of interaction patterns and classification with applications to microarray data. <i>Computational Statistics and Data Analysis</i> , 2006, 50, 783-802.	1.2	11
114	Response shrinkage estimators in binary regression. <i>Computational Statistics and Data Analysis</i> , 2006, 50, 2878-2901.	1.2	6
115	Genetic algorithms for the selection of smoothing parameters in additive models. <i>Computational Statistics</i> , 2006, 21, 9-31.	1.5	4
116	The survival of newly founded firms: a case-study into varying-coefficient models. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2005, 168, 145-158.	1.1	23
117	Localized classification. <i>Statistics and Computing</i> , 2005, 15, 155-166.	1.5	21
118	Local principal curves. <i>Statistics and Computing</i> , 2005, 15, 301-313.	1.5	62
119	Aggregating classifiers with ordinal response structure. <i>Journal of Statistical Computation and Simulation</i> , 2005, 75, 391-408.	1.2	8
120	Bagging, Boosting and Ordinal Classification. , 2005, , 145-152.		0
121	Modelling of repeated ordered measurements by isotonic sequential regression. <i>Statistical Modelling</i> , 2005, 5, 269-287.	1.1	29
122	Exploring Multivariate Data Structures with Local Principal Curves. , 2005, , 256-263.		6
123	Simultaneous Selection of Variables and Smoothing Parameters in Additive Models. , 2005, , 146-153.		0
124	Flexible modelling of discrete failure time including time-varying smooth effects. <i>Statistics in Medicine</i> , 2004, 23, 2445-2461.	1.6	15
125	Generalized semiparametrically structured mixed models. <i>Computational Statistics and Data Analysis</i> , 2004, 46, 777-800.	1.2	9
126	ALTERNATIVE MEASURES OF THE EXPLANATORY POWER OF GENERAL MULTIVARIATE REGRESSION MODELS. <i>Journal of Mathematical Sociology</i> , 2004, 28, 125-146.	1.2	3

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127	Semiparametric modelling of multicategorical data. Journal of Statistical Computation and Simulation, 2004, 74, 183-200.	1.2	9
128	Generalized linear random effects models with varying coefficients. Computational Statistics and Data Analysis, 2003, 43, 13-28.	1.2	12
129	Generalized Semiparametrically Structured Ordinal Models. Biometrics, 2003, 59, 263-273.	1.4	20
130	Semi- and Nonparametric Modeling of Ordinal Data. Journal of Computational and Graphical Statistics, 2003, 12, 176-196.	1.7	8
131	A CART-based approach to discover emerging patterns in microarray data. Bioinformatics, 2003, 19, 2465-2472.	4.1	74
132	Multivariate Statistical Modelling Based on Generalized Linear Models. Springer Series in Statistics, 2001, , .	0.9	540
133	Testing generalized linear and semiparametric models against smooth alternatives. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2001, 63, 147-166.	2.2	20
134	Non-Stationary Conditional Models for Spatial Data Based on Varying Coefficients. Journal of the Royal Statistical Society: Series D (the Statistician), 2001, 50, 1-15.	0.2	11
135	Local likelihood estimation in varying-coefficient models including additive bias correction. Journal of Nonparametric Statistics, 2000, 12, 343-371.	0.9	23
136	Sequential Models for Ordered Responses. , 1997, , 139-152.		24
137	Random effects in ordinal regression models. Computational Statistics and Data Analysis, 1996, 22, 537-557.	1.2	104
138	Nonparametric estimation of discrete hazard functions. Lifetime Data Analysis, 1996, 2, 291-308.	0.9	12
139	Competing risks models in discrete time with nominal or ordinal categories of response. Quality and Quantity, 1995, 29, 405-420.	3.7	22
140	Dynamic Stochastic Models for Time-Dependent Ordered Paired Comparison Systems. Journal of the American Statistical Association, 1994, 89, 1438-1449.	3.1	56
141	Multivariate Statistical Modelling Based on Generalized Linear Models. Springer Series in Statistics, 1994, , .	0.9	544
142	Dynamic Stochastic Models for Time-Dependent Ordered Paired Comparison Systems. Journal of the American Statistical Association, 1994, 89, 1438.	3.1	13
143	Sequential models in categorical regression. Computational Statistics and Data Analysis, 1991, 11, 275-295.	1.2	92
144	Sequential item response models with an ordered response. British Journal of Mathematical and Statistical Psychology, 1990, 43, 39-55.	1.4	143

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145	Compound Regression Models for Ordered Categorical Data. Biometrical Journal, 1989, 31, 259-272.	1.0	21
146	Latent Trait-Modelle für ordinale Beobachtungen. Lehr- Und Forschungstexte Psychologie, 1989, , .	0.1	12
147	Bradley-Terry-Luce models with an ordered response. Journal of Mathematical Psychology, 1986, 30, 306-316.	1.8	32
148	Goodness of fit tests for probabilistic measurement models. Journal of Mathematical Psychology, 1980, 21, 153-167.	1.8	8
149	A Rating Scale Mixture Model to Account for the Tendency to Middle and Extreme Categories. Journal of Educational and Behavioral Statistics, 0, , 107699862199255.	1.7	1