

Contents

Preface	v
PAPERS PRESENTED IN THE GLIM WORKING PARTY SESSION	
The New Facilities of GLIM4 R. GILCHRIST and C. PAYNE	1
Model Fitting Applications in GLIM4 B. FRANCIS, M. GREEN and M. CLARKE	6
Medical Applications in GLIM4 A. SWAN and B. FRANCIS	13
INVITED AND CONTRIBUTED PAPERS	
Residuals and Influential Points in Mean Structures Estimated with Pseudo Maximum Likelihood Methods G. ARMINGER	20
Fitting the Continuation Ratio Model using GLIM4 D. M. BERRIDGE	27
A New Approach for the Analysis of Multi-Episode Duration Data L. BRECHT	34
Approaches to Estimation with Errors in Predictors R. J. CARROLL	40
The Frontit Model: A Stochastic Frontier for Dichotomic Random Variables R. COLOMBI	48
Investigation of an Ordered Logistic Model for Consumer Debt N. CRICHTON and J. HINDE	54
On Link Selection in Generalized Linear Models C. CZADO	60
Estimation of Heterogeneity - A GLM-Approach E. DIETZ	66
Generalized Linear Models with P-splines P. H. C. EILERS and B. D. MARX	72
Modelling Excess Mortality of Diabetics: Generalised Linear Models and Dynamic Estimation P. D. ENGLAND and R. J. VERRALL	78
Smoothing in Dynamic Generalized Linear Models by Gibbs Sampling L. FAHRMEIR, W. HENNEVOGL and K. KLEMME	85
Bias Reduction, the Jeffreys Prior and GLIM D. FIRTH	91
Approximate Predictive Integrals for Dynamic Generalized Linear Models S. FRÜHWIRTH-SCHNATTER	101
Symmetric Interaction Models to Study Innovation Processes in the Software Industry P. GIUDICI and C. CAROTA	107
Ordinal Time Series Models with Application to Forest Damage Data A. GÖTTLEIN and H. PRUSCHA	113

Choosing Between Non-nested Models: A Simulation Approach J. HINDE	119
A Class of Models for the Simultaneous Analysis of Square Contingency Tables P. G. M. VAN DER HEIJDEN and W. JANSEN	125
Estimation of the Parameters of the Bilinear Association Model using the Gibbs Sampler L. MILAN and J. WHITTAKER	131
Marginal Modelling of Correlated Ordinal Data using an n -way Plackett Distribution G. MOLENBERGHS and E. LESAFFRE	139
The Evaluation of Bank Accounts using Optimized Moving Local Regression W. G. MÜLLER	145
Common Factor Model: Stochastic Model, Data Analysis Technique Or What? W. OBERHOFER and K. HAAGEN	151
The Design of Experiments to Discriminate Between Two Rival Generalized Linear Models A. C. PONCE DE LEON and A. C. ATKINSON	159
A Change-point Model for Infant Survival in the British Births Survey K. L. Q. READ and E. R. S. ISSA	165
The Construction of Life and Other Actuarial Graduated Tables using GLIM A. E. RENSHAW	175
Age-Period-Cohort Models: A Comparison of Methods C. ROBERTSON	181
Estimation of a First Order Autoregressive Process with Poisson Marginals for Count Data G. RONNING and R. C. JUNG	188
Saddlepoint Approximations for Generalized Linear Models: A Gentle Introduction G. U. H. SEEGER	195
Robust Poisson Regression R. WINKELMANN and K. F. ZIMMERMANN	201
Parametric and Semiparametric Analysis of Nonlinear Time Series S. MITTNIK and B. MIZRACH	207
Nonparametric Approaches to Generalized Linear Models W.K. HARDLE AND B.A. TURLACH	213