Contents

SECTION 1: Data Analysis and Classification: Basic Concepts and Methods

Ingo Balderjahn
Robustness of Estimation Methods against Small Sample Sizes and Nonnormality in Confirmatory Factor Analysis Models
Hans-Hermann Bock (survey lecture) Probabilistic Aspects in Cluster Analysis
Edwin Diday and M. Paula Brito (survey lecture) Symbolic Cluster Analysis45
Ludwig Fahrmeir (survey lecture) Analysis of Nonnormal Longitudinal Data with Generalized Linear Models
Gerhard Herden Cluster Methods for Qualitative Data
Heinz Kaufmann On Testing for and against Inequality Restrictions116
Wolfgang Kollewe Evaluation of a Survey with Methods of Formal Concept Analysis
Joachim Krauth A New Modification of the Rand Index for Comparing Partitions
Sabine Krolak-Schwerdt and André Kohler Relations between Models for Three-Way Factor Analysis and Multidimensional Scaling

Rudolf Mathar (survey lecture) Algorithms in Multidimensional Scaling)
Renate Meyer Extensions of Correspondence Analysis for the Statistical Exploration of Multidimensional Contingency Tables 178	3
Paul Müller Numerical Classification of Biased Estimators	7
Otto Opitz and Raimund Wiedemann An Agglomerative Algorithm of Overlapping Clustering 201	1
Manfred Tittel and Paul O. Degens Isotonic Regression - For a Monotone Index on a Hierarchy . 212	2
Ulrich Tüshaus On the Interpretation of Median Relations	2
Werner Vach Least Squares Approximation of Additive Trees	0
Rudolf Wille Geometric Representation of Concept Lattices	9
Karin Wolf and Paul O. Degens On Properties of Additive Tree Algorithms	6
SECTION 2: Applications in Library Sciences, Documentation and Information Sciences	3
Thomas Eckes	
Knowledge Structures and Knowledge Representation: Psychological Models of Conceptual Order	9
Harm Glashoff (survey lecture) Qualitative and Numerical Data in a	,0
Three-dimensional System	Ō

Henri Leclercq New Concepts and Terms During the French Revolution. A Classification of the Neologisms According to their Origin 285
Bernd Lorenz Einige sprachliche Probleme bei der Arbeit an einer Klassifikation und deren Registern
Heiner Schnelling Data Analysis in Literary Studies
Manfred Thaller (survey lecture) Have Very Large Data Bases Methodological Relevance?313
Peter Zoller Priority-Based Classification of Available Information - An Important Aspect of Future User Interfaces
SECTION 3: Applications in Economics and Social Sciences
Klaus Ambrosi (survey lecture) Computer-Based and Quantitative Methods in Market Research
Thomas Bausch Sample Techniques Used in Marketing Research
Ingo Böckenholt and Wolfgang Gaul Generalized Latent Class Analysis: A New Methodology for Market Structure Analysis36
Roberto Buzzi The Use of the Logical Programming Language PROLOG as a Classification Method

Reinhold Decker and Wolfgang Gaul
Classification and Selection of Consumer
Purchase Behaviour Models
Rolf H. Gebauer Towards a New Socioeconomic Classification Scheme for Farm Households Using a Cluster Analysis Technique399
Magdalena Mißler-Behr and Otto Opitz Identification of Multiple Criteria Decision Making
Ralf Pauly, Wolfgang Hauke and Otto Opitz (survey lecture) Explorative Data Analysis and Macroeconomics
Gerd Ronning A Microeconometric Study of Travelling Behaviour
Martin Schader
Inference Techniques in Decision Support Systems — Comparison and Example from Data Analysis
SECTION 4: Applications in Natural Sciences and Computer Sciences
Walter Erdelen
The Classification of Organisms - The Hurdle of Homology
Arndt von Haeseler
Limits in the Reconstruction of Phylogenetic Trees
Exemplified with 5S rRNA Sequences
Ingbert Kupka
The Concept of Information in Computer Science470

Berthold Lausen
Exploring Homologous tRNA Sequence Data:
Positional Mutation Rates and Genetic Distance481
Wolfgang Ludwig and Karl Heinz Schleifer (survey lecture)
Nucleotide Sequence Analysis of Conserved
Genes from Bacteria489
Rüdiger Ostermann, Lothar Hofmann and Jochen W. Münch
An Analysis of Throughput Measurements on a
Computer Network 505
Beate Roos and Paul O. Degens
AC-Characteristics and the Pass/Fail Performance
of a Memory Chip514
Authors 525