

TABLE OF CONTENTS

Acknowledgements	xiii
Introduction	xv
<i>Joseph Raben</i> The Electronic Library and the Scholarship of the Future	1
Archaeology	
<i>Paul Reilly, Andrew Walter</i> Data Visualisation in Archaeology	7
<i>Kazumasa Ozawa</i> An Archaeological Research Support System with Databases of Japanese Ancient Tombs and Geographics	13
<i>L. Graca, K.-H. Laudan, Piero Zamperoni, Ulrich Kampffmeyer, W.-R. Teegen</i> On the Computer-Aided Classification of Pottery Shapes	21
<i>Cornelius Steckner</i> Documentation, Automatic Measuring, Object Retrieval and Reconstruction for Economic and Functional Research in Ancient Commercial Pottery by Statistical Analysis of Mathematical Object Structure (SAMOS)	28
<i>Michael Eisner</i> The ARBOR Information System for Classical Archaeology and History of Art (or Tree Structures as Documents)	36
<i>Irene Bragantini, Piergiorgio Gherardini, Franca Parise Badoni</i> A Database on Pompeii Paintings and Floors	42
History of Art - Museum Systems	
<i>Peter Cannon-Brookes</i> Museum-Databases Constructed Using STIPPLE	48

<i>Jung-Kook Hong, Sigeharu Sugita</i> A Colour Image Database for an Ethnology Museum - A Multi-Window System for Electronic Cataloguing and Browsing of Ethnographic Samples on the PC -	53
<i>Gerhard Jaritz</i> Finding the Signs: Pictures of Medieval Life	61
<i>Ronald Stenvert</i> The Use of Computer-Aided Design in Art - and Architectural History	68
<i>Hélène Charnassé, Bernard Stepien</i> Computer and Musicology. Automatic Transcription of 16th Century Music: German Lute Tablatures	75
History	
<i>Giancarlo Taddei Elmi</i> A Database of Justinianean Sources	84
<i>R. Bell, Eddy van Cauwenberghe</i> The Medieval and Early Modern Data Bank in Europe and North America	92
<i>Ingo H. Kropač</i> Homo ex Machina: Prosopography and Chartularies	97
<i>Dieter Geuenich</i> A Data Base for Research on Persons and Groups of Persons in the Middle Ages	103
<i>Suibert Ertel</i> Patterns of Scientific Evolution: Short Term Cycles and Secular Waves	109
<i>José-Gentil Da Silva, Dominique Vignau</i> The Database Saint-Leger: Computer and History	118
<i>Hans-Christoph Hobohm</i> Establishing a Reconstructive Metasource on Censorship of Novels in the Early French Enlightenment	130
<i>Arno Kiits</i> An Analysis of the Components of Elite Migration: Viano Do Castelo, Minho 1826-1931	138
<i>Bruno Aubusson de Cavarlay</i> The French Criminal Justice System between 1831 and 1981: A Statistical Data Base	141

<i>Andreas Kunz</i> Database Applications in Economic History: German Transport Statistics, 1835-1985	148
<i>Carola Lipp</i> Symbolic Dimensions of Serial Sources. Hermeneutical Problems of Reconstructing Political Biographies Based on Computerized Record Linkage	156
<i>Heinrich Best, Ralph Ponemereu</i> The German Parliamentarian Data Base: Catching the Complexities of Political Life-Histories	163
<i>Doron Lamm</i> The Many Faces of a Nation in Arms: A Data Base on British Soldiers of the First World War	172
Data Service	
<i>Marcia Freed Taylor, Kevin Schurer</i> The Establishment of a UK Historical Data Archive: Problems and Possibilities	178
<i>Donald Bender, Walter Bien</i> Data Bases in the Social Sciences. Integration, Needs of Today and Resulting Concepts for the Future	181
<i>Sabine Schmidt, Thomas Schweizer</i> World Cultures: An Electronic Journal and Comparative Database	184
<i>Michael Terwey</i> The Database of the German "General Social Survey" (ALLBUS)	189
<i>Lorenz Gräf</i> FRAVIS - A PC Based System for Documentation and Retrieval of Survey Questions	198
<i>Werner J. Patzelt</i> Empirical Research on the PC: The Case of Open Access II	208
Data Representation - Data Analysis	
<i>Hans-Jürgen Andreß</i> Professionalization in a Parliamentary System. Length of Membership in the German Reichstag - An Application of Event-History Analysis to Historical Duration Data	214

<i>Jörg Blasius</i> Applications of Correspondence Analysis in Social Science Research	222
<i>Gerhard Christiansen</i> Computer-Assisted Telephone Interviewing (CATI) in Social Research	230
<i>Steffen Kühnel</i> Full-Quasi-Likelihood Estimation of Structural Equation Models with Incomplete Data	233
<i>Ulrich Küsters</i> Analysis of Non-Metric Dependent Variables	241
<i>Hilmar Schneider</i> PARAT - A Program for the Estimation of Parametric Transition Rate Models	247
<i>Rainer Schnell</i> Realization of Missing Data Techniques within Statistical Program Packages and their Empirical Performance	256
<i>Winfried Stier</i> Basic Concepts and New Methods of Time Series Analysis in Historical Social Research	263
<i>E. J. Zimmermann</i> Scale-Analysis According to R. J. Mokken - A Probabilistic Extension of Guttman Scaling	269
<i>Janet Bagg, Nick Ryan</i> Interacting with Diagrams: Using a Graph Browser with a Research Database	280
<i>Barbara Morris</i> Carto-Net: International Access to Map and Archive Records	286
Expert Systems - Information Systems	
<i>René Arrus, B. Gronquist, Dimitri Lelis, Marc Ollivier, Zahir Tari</i> Considerations on the Use of an Expert System to Support Economic and Social Planning	292
<i>Antonio Maria D'Amico</i> Legal Data Bases and Expert Systems in the European Community. The Possible Integration of Information Retrieval and Artificial Intelligence	302

<i>Antonio Cammelli, Fiorenza Socci</i> A Shell-Based Legal Expert System Prototype for Legislative Drafting	313
<i>Paola Mariani, Daniela Tiscornia</i> Expert Systems as an Aid to Legislative Drafting	321
<i>Rosa Maria Di Giorgi, Roberta Nannucci</i> New Developments in the Legal Bibliographic Documentation	329
<i>Gerhard Budin</i> The Application of Terminology-Based Knowledge Data Bases in the Humanities and Social Sciences and its Impact on Research Methods	337
<i>Caroline Bourlet, Agnès Guillaumont, Arlette Faugères, Michelle Magdelaine, Marion Selz-Laurière</i> Construction of an Individuals Identification Help System	343
<i>Antonio Cammelli, Luigi Parenti</i> Thes Giur: An Experimental Thesaurus of Legal Terms	351
Modelling - Simulation	
<i>Johannes Gordesch</i> Statistical Modelling	356
<i>Norbert Müller, Bernd Thober</i> Real Time Modelling	362
<i>Heinrich Siegmann</i> Computer Simulations in the Social Sciences	368
Linguistic Analysis - Content Analysis	
<i>Andrea Bozzi, Giuseppe Cappelli</i> Automatic Lemmatization of Latin Texts	373
<i>Kazimierz Choroś</i> Relative Indexing of Documents in Microcomputer Systems. Principles, Testing and Evaluation	379
<i>Otto Esser, Franz Potyka</i> Electronically Processed texts of Exotic Languages in Favour of the Integration of Description into Linguistic Discussion	385
<i>Wilma Knoppert</i> An Expert System that Uses Abstract Features of a Poem to Identify its Most Probable Author	390

<i>Volker Neuhaus</i> Computer Assisted Interpretation of Detective Stories (CID - Computer- unterstützte Interpretation von Dedektivromanen). A Research Project	402
<i>Robert L. Oakman, Cheryl M. Upchurch</i> A New Literary Classification Method: The Case of Jane Austen	407
<i>Peter Ph. Mohler, Cornelia Züll</i> The General Inquirer III	410
<i>Manette Estelle Raben</i> Can Wordcrunchers Enable the User to Ask Significant Questions about Literary Texts?	412
<i>Hans Pruyt</i> Relational Databases for Textual Data?	418
<i>Desirée Schipper</i> A Plea for Incorporating a Textual Datamodel in Relational Databases	423
<i>Charles Whitaker</i> MOLLUSCS - A Package for Poetry	427
<i>Wilhelm Ott</i> TUSTEP	432
Computer Aided Instruction	
<i>Philip Brady, Richard Startup</i> The Social Implications of Computing in Student Residences	438
<i>Dieter Euler</i> Computer-Aided Instruction and Communication-Skills	444
<i>Eugene Horber</i> The Computer Aided Instruction	449
<i>Heinz Neber</i> Acquisition and Communication of Knowledge about a Computer Program	454
<i>Lawrence J. McCrank</i> Academic Computing Centers in American Universities	459
<i>Robert John Morris</i> Computers and the Freedom of Learning: Courses, Sources, Numbers and Historical Understanding	468

<i>Heike Rautenhaus</i> CALL - A Reasonable Perspective?	477
<i>Richard Trainor</i> The Interaction of Teaching and Research in Computer-Based History Standardization - Study Descriptions	484
<i>Reinhard Härtel</i> The Demands of the Historical Disciplines on Machine Readable Sources - And the Consequences for their Standardization	491
<i>Ninette van Hall</i> Towards a Standard for the Description of Historical Datasets	496
<i>Hans Jørgen Marker</i> Study Description Adjustments for Historical Research	502
<i>Bridget Winstanley</i> The Standard Study Description at the ESRC Data Archive	507
<i>Nancy M. Ide, C. Michael Sperberg-McQueen</i> Development of a Standard for Encoding Literary and Linguistic Materials	511
List of Contributors	513
Index	518