

Contents

Contributors	v
Preface	ix
1 Electronic Data Processing in Taxonomy and Systematics V. H. HEYWOOD	1
2 Information Services in Taxonomy F. A. BISBY	17
3 Current Database Design – The User's View D. W. BARRON	35
4 The Implementation of Databases on Small Computers M. W. FREESTON	43
5 Management of Almost Flat Files in Systematic Biology using TAXIR R. C. BRILL and G. F. ESTABROOK	53
6 A Concept for a Machine-readable Taxonomic Reference File M. N. DADD and M. C. KELLY	69
7 The European Taxonomic, Floristic and Biosystematic Documentation System – An Introduction V. H. HEYWOOD, D. M. MOORE, L. N. DERRICK, K. A. MITCHELL and J. van SCHEEPEN	79
8 The Database of the IUCN Conservation Monitoring Centre D. C. MACKINDER	91
9 ISIS – An International Specimen Information System N. R. FLESNESS, P. G. GARNATZ and U. S. SEAL	103
10 The Network of Databanks for the Italian Flora and Vegetation P. L. NIMIS, E. FEOLI and S. PIGNATTI	113

11	Fact Documentation and Literature Database for the Crustacean Order Tanaidacea J. SIEG	125
12	PRECIS – A Curatorial and Biogeographic System G. E. GIBBS RUSSELL and P. GONSALVES	137
✓ 13	A Review of Herbarium Catalogues R. J. PANKHURST	155
✓ 14	Flora of Veracruz: Progress and Prospects A. GOMEZ-POMPA, N. P. MORENO, L. GAMA, V. SOSA and R. ALLKIN	165
✓ 15	The Viciae Database: An Experimental Taxonomic Monograph M. E. ADEY, R. ALLKIN, F. A. BISBY, T. D. MACFARLANE and R. J. WHITE	175
✓ 16	The Use of a Descriptive Database as an Aid to Assessing the Distinctness of Pea Cultivars (<i>Pisum sativum</i> L.) P. J. WINFIELD and F. N. GREEN	189
17	A Chemical Database for the Leguminosae B. V. CHARLWOOD, G. S. MORRIS and M. J. GRENHAM	201
18	A Chemotaxonomic Database M. T. BABAÇ and F. A. BISBY	209
✓ 19	BRASS BAND (The Brassicaceae Data Bank at Notre Dame): An Example of Database Concepts in Systematics T. J. CROVELLO, L. A. HAUSER and C. A. KELLER	219
20	An Outline for a Database within a Major Herbarium J. M. MASCHERPA and G. BOCQUET	235
21	Identification of Toxic Mushrooms and Toadstools (Agarics) – An On-Line Identification Program P. MARGOT, G. FARQUHAR and R. WATLING	249
22	Handling Taxonomic Descriptions by Computer R. ALLKIN	263
23	Automatic Typesetting of Computer-generated Keys and Descriptions M. J. DALLWITZ	279

Contents

xiii

✓ 24	Implementing Small Database Systems with Specialized Features	
	R. J. WHITE	291
25	On the Description of Inflorescences	
	R. J. PANKHURST	309
26	Databases in Systematics: A Summing Up	
	G. LL. LUCAS	321
	Index of Key Words	325
	List of Systematics Association Publications	330