

- "Grammar inference, automata induction, and language acquisition" by Rajesh G. Parekh and Vasant Honavar
- "The symbolic approach to ANN-based natural language processing" by Michael Witbrock
- "The subsymbolic approach to ANN-based natural language processing" by Georg Dorffner
- "The hybrid approach to ANN-based natural language processing" by Stefan Wermter
- "Character recognition with syntactic neural networks" by Simon Lucas
- "Compressing texts with neural nets" by Jürgen Schmidhuber and Stefan Heil
- "Neural architectures for information retrieval and database query" by Chun-Hsien Chen and Vasant Honavar
- "Text data mining" by Dieter Merkl
- "Text and discourse understanding: The DISCERN system" by Risto Miikkulainen

**Where Mathematics, Computer Science, Linguistics, and Biology Meet: Essays in Honour of Gheorghe Păun**

**Carlos Martín-Vide and Victor Mitran (editors)**

(Rovira i Virgili University and University of Bucharest)

Dordrecht: Kluwer Academic Publishers, 2001, xv+446 pp; hardbound, ISBN 0-7923-6693-X, \$176.00, £112.00, Dfl 360.00

"There are not many scientific fields as interdisciplinary as formal language theory. In this volume, it is presented as the very intersection point of Mathematics, Computer Science, Linguistics, and Biology. This book is a collection of papers which closely examines classical topics in computer science inspired by formal languages, as well as showing new concepts and problems motivated in linguistics and biology. The papers are organized into four sections: Grammars and Grammar Systems, Automata, Languages and Combinatorics, and Models of Molecular Computing. They clearly prove the power, wealth, and vitality of the theory nowadays and sketch some trends for its future development. The volume is intended for an audience of computer scientists, computational linguists, theoretical biologists, and any other people interested in dealing with the problems and challenges of interdisciplinarity."—*From the publisher's announcement, with minor corrections*

"Our volume has two goals. One is to present some recent results in active areas of the three domains that converge in the new field. The other one is to celebrate the 50th birthday of Gheorghe Păun, who, from formal language theory, promoted the new research area and made seminal contributions to it... All the papers are contributed by Gheorghe Păun's collaborators, colleagues, friends, and students in the five continents, who wanted to show in this way their recognition to him for his tremendous work. We have collected 38 papers by 75 authors here. (Another set of 38 papers by 65 authors will be published soon in the future.)"—*From the editors' preface*

**Recent Advances in Natural Language Processing II: Selected Papers from RANLP '97**

**Nicolas Nicolov and Ruslan Mitkov (editors)**

(University of Sussex and University of Wolverhampton)

Amsterdam: John Benjamins (Current issues in linguistic theory, volume 189), 2000, xi+422 pp; hardbound, ISBN 1-55619-966-X and 90-272-3695-X, \$84.00

"This volume brings together [31] revised versions of a selection of papers presented at the Second International Conference on 'Recent Advances in Natural Language Processing' (RANLP'97) held in Tzigov Chark, Bulgaria, 11–13 September 1997."—*From the editors' foreword*

**Intelligent Help Systems for UNIX**

**Stephen J. Hegner, Paul McKeivitt, Peter Norvig, and Robert Wilensky (editors)**

(Umeå University, University of Ulster, NASA Ames Research Center, and University of California, Berkeley)

Reprinted from *Artificial Intelligence Review*, 14(1–5), 2000.

Dordrecht: Kluwer Academic Publishers, 2001, xii+420 pp (no index); hardbound, ISBN 0-7923-6641-7, \$190.00, £135.00, €220.00

This collection of papers concerns artificial-intelligence (AI) and cognitive-science techniques applied to the problem of providing help systems for the UNIX operating sys-