Harold Somers is a Lecturer at UMIST, member of the machine translation research group there, and is the author of *Case and Valency in Computational Linguistics* (Edinburgh University Press, 1987). He was recently a visiting research fellow at Toshiba Corporation's R&D Center in Japan. Somers's address is: Centre for Computational Linguistics, UMIST, PO Box 88, Manchester M60 1QD, England. E-mail: hls@ccl.umist.ac.uk.

BOOKS RECEIVED

Books listed below that are marked with a † will be reviewed in a future issue; reviewers are still sought for those marked with an asterisk.

Readers who wish to review books for the journal should write, outlining their qualifications, to the book review editor, Graeme Hirst, Department of Computer Science, University of Toronto, Toronto, Canada M5S 1A4. Obviously, we cannot promise the availability of books in anyone's exact area of interest.

Authors and publishers who wish their books to be considered for review in *Computational Linguistics* should send a copy to the book review editor at the address above. All books received will be listed, but not all can be reviewed.

†Allen, James Frederick
[University of Rochester]
Natural language understanding
Menlo Park, CA: Benjamin/Cummings, 1987,
xvi+574 pp
Hardbound, ISBN 0-8053-0330-8

†Allen, Jonathan; Hunnicutt, M. Sharon; and Klatt,
Dennis; with Armstrong, Robert C. and Pisoni, David
[MIT; Royal Institute of Technology, Stockholm; MIT; MIT; Indiana University]
From Text to Speech: The MITalk System
(Cambridge studies in speech science and communication)
Cambridge, England: Cambridge University Press, 1987, xi+216 pp
Hardbound, ISBN 0-521-30641-8, $29.95

Appiah, Anthony
[Cornell University]
For truth in semantics
(Philosophical theory series)
Oxford: Basil Blackwell, 1986, xix+186 pp
Hardbound, ISBN 0-631-14596-6, £22.50

†Alshawi, Hiyan
[SRI International Cambridge]
Memory and context for language interpretation
(Studies in natural language processing)
Cambridge, England: Cambridge University Press, 1987, ix+188 pp
Hardbound, ISBN 0-521-34059-4, $29.95 [20% discount to ACL members]

†Altenberg, Bengt
[Lund University]
Prosodic patterns in spoken English: Studies in the correlation between prosody and grammar for text-to-speech conversion
(Lund studies in English 76)
Lund: Lund University Press, 1987, 225 pp
Paperback, ISBN 0-86238-125-8 and 91-7966-002-9, Skr 178.-

Baecker, Ronald M. and Buxton, William A. S.
(writers and editors)
[University of Toronto]
Readings in human-computer interaction: A multidisciplinary approach
Los Altos, CA: Morgan Kaufmann Publishers, 1987, xiii+738 pp
Paperback, ISBN 0-934613-24-9, $32.95

Bertelson, Paul (editor)
[Université Libre de Bruxelles]
The onset of literacy: Cognitive processes in reading acquisition
(Cognition special issues series)
[Reprinted from volume 24 of *Cognition: International journal of cognitive science*]
Cambridge, MA: The MIT Press/Bradford Books, 1987, 174 pp
Paperbound, ISBN 0-262-52125-3, $15.00

Burton, Mike and Shadbolt, Nigel
[University of Nottingham]
POP-11 programming for artificial intelligence
(International Computer Science Series)
Wokingham, England: Addison-Wesley, 1987, xi+207 pp
Paperback, ISBN 0-201-18049-9, $21.95

Cercone, Nick and McCalla, Gordon (editors)
[Simon Fraser University and University of Saskatchewan]
The knowledge frontier: Essays in the representation of knowledge
(Symbolic computation series: artificial intelligence)
NY: Springer, 1987, xi+512 pp
Hardbound, ISBN 0-387-96557-2, $40.00

Charniak, Eugene; Riesbeck, Christopher Kevin; McDermott, Drew Vincent; Meehan, James R.
[Brown University; Yale University; Yale University; Cognitive Systems Inc]
Artificial intelligence programming (second edition)
Hillsdale, NJ: Lawrence Erlbaum Associates, 1987, xvi+533 pp
Hardbound, ISBN 0-89859-609-2, $34.50

†Church, Kenneth W.
[AT&T Bell Laboratories]
Phonological parsing in speech recognition

(The Kluwer international series in electrical engineering and computer science; VLSI, computer architecture and digital signal processing)
Boston: Kluwer Academic Publishers, 1987, xv+261 pp
Hardbound, ISBN 0-89838-250-5, $49.95

†Danlos, Laurence
[Centre National de la Recherche Scientifique, Paris]
The linguistic basis of text generation
(Studies in natural language processing)
Cambridge, England: Cambridge University Press, 1987, x+222 pp
Hardbound, ISBN 0-521-32398-8, $39.50 [20% discount to ACL members]

Fischler, Martin and Firschein, Oscar
[SRI International]
Intelligence: The eye, the brain, and the computer
Reading, MA: Addison-Wesley, 1987, xiv+331 pp
Hardbound, ISBN 0-201-12001-1

Fodor, Jerry A.
[The Graduate Center, City University of New York]
Psychosemantics: The problem of meaning in the philosophy of mind (Explorations in cognitive science)
Cambridge, MA: The MIT Press/Bradford Books, 1987, xiii+173 pp
Hardbound, ISBN 0-262-06106-6, $19.95

Friedman, Daniel P. and Felleisen, Matthias
[Indiana University]
The little LISPer (trade edition)
Cambridge, MA: The MIT Press, 1987, xiv+186 pp
Paperback, ISBN 0-262-56038-0, $12.95

*Gärdenfors, Peter (editor)
[Department of Philosophy, Lund University]
Generalized quantifiers: Linguistic and logical approaches (Studies in linguistics and philosophy 31)
Dordrecht: D. Reidel, 1987, vii+307 pp
Hardbound, ISBN 1-55608-017-4, $74.00, £59.00, Dfl 158.-

†Gardner, Anne von der Lieth
An artificial intelligence approach to legal reasoning
(Artificial intelligence and legal reasoning series)
Cambridge, MA: The MIT Press/Bradford Books, 1987, xiii+225 pp
Hardbound, ISBN 0-262-07104-5, $22.50

Garfield, Jay L.
[Hampshire College]
Modularity in knowledge representation and natural-language understanding
Cambridge, MA: The MIT Press/Bradford Books, 1987, xi+427 pp
Hardbound, ISBN 0-262-07105-3, $35.00

Genesereth, Michael R. and Nilsson, Nils J.
[Stanford University]
Logical foundations of artificial intelligence
Los Altos, CA: Morgan Kaufmann Publishers, 1987, xviii+405 pp
Hardbound, ISBN 0-934613-31-1, $36.95

Ginsberg, Matthew L.
[Stanford University]
Readings in non-monotonic reasoning
Los Altos, CA: Morgan Kaufmann Publishers, 1987, 481 pp
Paperback, ISBN 0-934613-45-1, $26.95

Goldblatt, Robert
[Department of Pure Mathematics, Victoria University of Wellington]
Logics of time and computation
(CSLI lecture notes 7)
Center for the Study of Language and Information, Stanford University, 1987, ix+131 pp
Distributed by the University of Chicago Press
Hardbound, ISBN 0-937073-11-3, $24.95; Paperback, ISBN 0-937073-12-1, $11.95

Grimson, William Eric Leifur and Patil, Ramesh S. (editors)
[MIT]
AI in the 1980s and beyond: An MIT survey
Cambridge, MA: The MIT Press, 1987, x+374 pp
Hardbound, ISBN 0-262-07106-1, $24.95

†Grishman, Ralph
[New York University]
Computational linguistics: An introduction
(Studies in natural language processing)
Cambridge, England: Cambridge University Press, 1987, viii+193 pp
Hardbound, ISBN 0-521-32501-1, $39.50; Paperback, ISBN 0-521-31038-5, $14.95 [20% discount to ACL members]

†Gunji, Takao
[Faculty of Language and Culture, Osaka University]
Japanese phrase structure grammar: A unification-based approach
(Studies in natural language and linguistic theory)
Dordrecht: D. Reidel, 1987, ix+239 pp
Hardbound, ISBN 1-55608-020-4, $64.50, £49.50, Dfl 135.-

Hand, D. J. and Everitt, Brian S.
[Biometrics Unit, Institute of Psychiatry, London]
The statistical consultant in action
Cambridge University Press, 1987, xii+189 pp
Hardbound, ISBN 0-521-30717-1, $34.50

Harnad, Stevan (editor)
[Behavioral and Brain Sciences]
Categorial perception: The groundwork of cognition
Cambridge, England: Cambridge University Press,
1987, x+599 pp
Hardbound, ISBN 0-521-26758-7, $59.50

Haton, Jean-Paul (editor)
[Centre de Recherche en Informatique de Nancy]
*Fundamentals in computer understanding: Speech
and Vision: An advanced course*
Cambridge, England: Cambridge University Press,
1987, xii+276 pp
Hardbound, ISBN 0-521-30983-2, $39.50

†Herskovits, Annette
[Wellesley College]
Language and spatial cognition
(Studies in natural language processing)
Cambridge, England: Cambridge University Press,
1987, x+208 pp
Hardbound, ISBN 0-521-26690-4, $34.50 [20%
discount to ACL members]

†Hirst, Graeme
[University of Toronto]
Semantic interpretation and the resolution of ambiguity
(Studies in natural language processing)
Cambridge, England: Cambridge University Press,
1987, xiv+263 pp
Hardbound, ISBN 0-521-32203-0, $39.50 [20%
discount to ACL members]

†Jackendoff, Ray
[Department of Linguistics, Brandeis University]
Consciousness and the computational mind
(Explorations in cognitive science)
Hardbound, ISBN 0-262-10037-1, $27.50

Johnson, Mark
[Southern Illinois University]
*The body in the mind: The bodily basis of meaning,
imagination, and reason*
Chicago: The University of Chicago Press, 1987,
xxxviii+233 pp
Hardbound, ISBN 0-226-40317-3, $27.50

†Kempen, Gerard (editor)
[Department of Experimental Psychology, University of Nijmegen]
*Natural language generation: New results in artificial
intelligence, psychology and linguistics*
(NATO Advanced Science Institutes Series E: Applied Sciences, number 135)
Dordrecht: Martinus Nijhoff Publishers (distributed by
Kluwer Academic Publishers), 1987, xiv+466 pp

Hardbound, ISBN 90-247-3558-0, $79.50, £53.50,
Dfl 195.-

Klerer, Melvin
[Polytechnic University]
User-oriented computer languages: Analysis and design
(The Macmillan database/data communications series)
New York: Macmillan, 1987, xvi+208 pp
Hardbound, ISBN 0-02-949911-9, $34.95

**Kluźniak, Feliks and Szpakowicz, Stanisław, with a
contribution by Bién, Janusz S.**
[Warsaw University and University of Ottawa]
Prolog for programmers
(APIC studies in data processing 24)
London: Academic Press, 1985, xii+306 pp
Includes floppy disk with Toy Prolog for IBM PC
Hardbound, ISBN 0-12-416520-6; Paperback, ISBN
0-12-416521-4, $24.95, £14.95

*Langendoen, D. Terence and Postal, Paul M.
[Graduate Center, City University of New York, and
IBM Watson Research Center, Yorktown Heights]
The vastness of natural languages
Oxford: Basil Blackwell, 1984, ix+189 pp
Hardbound, ISBN 0-631-13461-1; Paperback, ISBN
0-631-14756-X, £8.95

Malpas, John
Prolog: A relational language and its applications
Englewood Cliffs, NJ: Prentice-Hall Inc, 1987,
x+465 pp
Paperbound, ISBN 0-13-730805-1

†Manaster-Ramer, Alexis (editor)
[Wayne State University]
Mathematics of language
Amsterdam: John Benjamins, 1987, x+401 pp
Hardbound, ISBN 1-55619-032-8 and 90-272-2049-2,
$50.00, Dfl 125.-

Mason, Ian A.
[Laboratory for the Foundations of Computer Science, University of Edinburgh]
The semantics of destructive Lisp
(CSLI lecture notes 5)
Center for the Study of Language and Information,
Stanford University, 1987, vii+282 pp
Distributed by the University of Chicago Press
Hardbound, ISBN 0-937073-05-9, $29.95; Paperback,
ISBN 0-937073-06-7, $14.95

van der Meer, Elke and Hoffmann, Joachim (editors)
[Department of Psychology, Humbolt University and
Department of Psychology, Academy of Sciences of
the German Democratic Republic]
Knowledge aided information processing

[Essays dedicated to Prof. Freidhart Klix]
Amsterdam: North-Holland, 1987, xii+324 pp
Hardbound, ISBN 0-444-70276-8, Dfl 190.-

Monaghan, James (editor)
[Hatfield Polytechnic, U.K.]
Grammar in the construction of texts
(Open linguistics series)
London: Frances Pinter (Publishers), 1987, ix+155 pp
[Distributed in the U.S. by Columbia University
    Press]
Hardbound, ISBN 0-86187-627-X

†Myers, Terry; Brown, Keith; and McGonigle, Brendan (editors)
[University of Edinburgh, University of Essex, and
    University of Edinburgh]
Reasoning and discourse processes
(Cognitive science series)
London: Academic Press, 1986, xii+295 pp
Hardbound, ISBN 0-12-512320, $69.00; Paperback,
    ISBN 0-12-512321-3, $29.95

†Pereira, Fernando C. N. and Shieber, Stuart M.
[SRI International]
Prolog and natural-language analysis
(CSLI lecture notes 10)
Center for the Study of Language and Information,
    Stanford University, 1987, viii+260 pp
Distributed by the University of Chicago Press
Hardbound, ISBN 0-937073-17-2, $28.95; Paperback,
    ISBN 0-937073-18-0, $13.95

Poizner, Howard; Klima, Edward S.; and Bellugi, Ursula
[Salk Institute for Biological Research, San Diego]
What the hands reveal about the brain
(The MIT Press series on issues in the biology of language and cognition)
Cambridge, MA: The MIT Press/Bradford Books,
    1987, xvii+236 pp
Hardbound, ISBN 0-262-16105-2, $25.00

Pylyshyn, Zenon W. (editor)
[University of Western Ontario]
*The robot's dilemma: The frame problem in artificial
    intelligence*
(Theoretical issues in cognitive science)
Norwood, NJ: Ablex Publishing Corp, 1987, xi+156
    pp
Hardbound, ISBN 0-89391-371-5, $29.50

Pylyshyn, Zenon W. and Demopoulos, William (editors)
[University of Western Ontario]
Meaning and cognitive structure: Issues in the computational theory of mind
(Theoretical issues in cognitive science)

Norwood, NJ: Ablex Publishing Corp, 1986, xi+264 pp
Hardbound, ISBN 0-89391-372-3, $39.50

Quinlan, J. Ross
[New South Wales Institute of Technology]
Applications of expert systems: Based on the proceedings of the second Australian conference
Glasgow and Sydney: The Turing Institute Press in
    association with Addison-Wesley, 1987, xvi+223 pp
Hardbound, ISBN 0-201-17449-9, $24.95

Reuland, Eric J. and ter Meulen, Alice G.B. (editors)
[Rijksuniversiteit Groningen and University of
    Washington]
The representation of (in)definiteness
(Current studies in linguistics series 14)
Cambridge, MA: The MIT Press, 1987, xiv+344 pp
Hardbound, ISBN 0-262-18126-6, $35.00

†Sager, Naomi; Friedman, Carol; and Lyman, Margaret S.
[New York University]
*Medical language processing: Computer management
    of narrative data*
Reading, MA: Addison-Wesley, 1987, xiii+348 pp
Hardbound, ISBN 0-201-16810-3, $41.95

†Samad, Tariq
[Carnegie-Mellon University]
A natural language interface for computer-aided design
(The Kluwer international series in engineering and
    computer science; natural language processing and
    machine translation)
Boston: Kluwer Academic Publishers, 1986, ix+188 pp
Hardbound, ISBN 0-89838-222-X, $38.95

†Savitch, Walter J.; Bach, Emmon; Marsh, William; and Safran-Naveh, Gila (editors)
[University of California, San Diego; University of
    Massachusetts, Amherst; Xerox Palo Alto Research
    Center; and University of Cincinnati]
The formal complexity of natural language
(Studies in linguistics and philosophy 33)
Dordrecht: D. Reidel, 1987, xviii+451 pp
Hardbound, ISBN 1-55608-046-8, $69.00, £44.95,
    Dfl 145.-

†Schiffer, Stephen
[University of Arizona]
Remnants of meaning
Cambridge, MA: The MIT Press/Bradford Books,
    1987, xx+303 pp
Hardbound, ISBN 0-262-19258-6, $27.50

†Schiffrin, Deborah
[Georgetown University]
Discourse markers
(Studied in interactional sociolinguistics 5)

Cambridge University Press, 1987, x+364 pp
Hardbound, ISBN 0-521-30385-0, $49.50

Schnupp, Peter and Bernhard, Lawrence W.
[Interface GmbH and Soft & Hard Software]
Productive Prolog Programming
Prentice-Hall, 1987, xiv+296 pp
Paperback, ISBN 0-13-725110-6

Shapiro, Stuart Charles (editor-in-chief) and Eckroth, David (managing editor)
[State University of New York at Buffalo and John Wiley]
Encyclopedia of artificial intelligence
New York: Wiley-Interscience/John Wiley, 1987,
 xxi+1219 pp in two volumes
Hardbound, ISBN 0-471-80748-6, $175.00

Shaumyan, Sebastian
[Yale University]
A semiotic theory of language
(Advances in semiotics series)
Bloomington, IN: Indiana University Press, 1987,
 xv+352 pp
Hardbound, ISBN 0-253-30472-5, $57.50

Shoham, Yoav
[Department of Computer Science, Stanford University]
*Reasoning about change: Time and causation from
 the standpoint of artificial intelligence*
(The MIT Press series in artificial intelligence)
Cambridge, MA: The MIT Press, 1988, xvi+200 pp
Hardbound, ISBN 0-262-19269-1, $25.00

†Somers, Harold L.
[Centre for Computational Linguistics, UMIST]
Valency and case in computational linguistics
(Edinburgh information technology series 3)
Edinburgh University Press, 1987, x+328 pp
Distributed in North America by Columbia University
 Press
Hardbound, ISBN 0-85224-518-1, $45.00

†Sparck Jones, Karen
[University of Cambridge]
Synonymy and semantic classification
(Edinburgh information technology series 1)
Edinburgh University Press, 1986, viii+285 pp
Distributed in North America by Columbia University
 Press
Hardbound, ISBN 0-85224-517-3, £25.00

†Stillings, Neil A.; Feinstein, Mark H.; Garfield, Jay L.; Rissland, Edwina L.; Rosenbaum, David A.; Weisler, Steven E.; and Baker-Ward, Lynne
[Hampshire College and University of Massachusetts, Amherst]
Cognitive science: An introduction

Cambridge, MA: The MIT Press/Bradford Books,
 1987, xvii+533 pp
Hardbound, ISBN 0-262-19257-8, $25.00

Traub, Joseph F.; Grosz, Barbara J.; Lampson, Butler W.; and Nilsson, Nils J.
[Columbia University; Harvard University; Digital Equipment Corp; Stanford University]
Annual review of computer science. Volume 2, 1987
Palo Alto: Annual Reviews, Inc, 1987, vii+565 pp
Hardbound, ISBN 0-8243-3203-4, ISSN 8756-7016,
 $39.00

Turner, Mark
[University of Chicago]
*Death is the mother of beauty: Mind, metaphor,
 criticism*
Chicago: The University of Chicago Press, 1987,
 xi+208 pp
Hardbound, ISBN 0-226-81721-0, $16.95

†Unger, J. Marshall
[Department of East Asian Languages and Literatures, University of Hawaii, Honolulu]
*The fifth generation fallacy: Why Japan is betting its
 future on artificial intelligence*
Oxford University Press, 1987, x+230 pp
Hardbound, ISBN 0-19-504-939-X

†Walker, Adrian (editor); McCord, Michael; Sowa, John F.; and Wilson, Walter G.
[IBM T.J. Watson Research Center and IBM Systems Research Institute]
*Knowledge systems and Prolog: A logical approach
 to expert systems and natural language processing*
Reading, MA: Addison-Wesley, corrected reprinting,
 March 1987, xii+475 pp
Hardbound, ISBN 0-201-09044-9

Wise, Michael J.
[New South Wales Institute of Technology]
Prolog Multiprocessors
Sydney, NSW: Prentice-Hall Australia, 1986,
 xii+168 pp
Hardbound, ISBN 0-13-730755-1

Wos, Larry
[Argonne National Laboratory]
Automated reasoning: 33 basic research problems
Englewood Cliffs, NJ: Prentice Hall, 1988, xiii+319 pp
Paperback, ISBN 0-13-054522-X, $12.00

Yonezawa, Akinori and Takoro, Mario
[Tokyo Institute of Technology and Keio University]
Object-oriented concurrent programming
(MIT Press series in computer systems)
Cambridge, MA: The MIT Press, 1987, vii+282 pp
Hardbound, ISBN 0-262-24026-2, $25.00