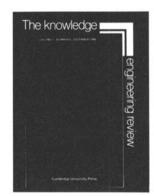
TO ADVERTISE IN THIS PUBLICATION

Please contact:

Anita Hebblethwaite Journals Advertising Promoter Cambridge University Press The Edinburgh Building Shaftesbury Road Cambridge CB2 2RU

Telephone (0223) 325757 Fax (0223) 315052 Telex 817256



In the USA and Canada please contact:

Journals Department Cambridge University Press 40 West 20th Street New York, NY 10011 USA

Telephone (914) 937 9600 Fax (212) 691 3239



Artificial Intelligence

AN INTERNATIONAL JOURNAL

The Journal, which commenced publication in 1970, is now the generally accepted international forum for the publication of results of current research in this field. A glance at the contents of back numbers indicates the wide variety of topics studied and reported on:

for example, the learning of heuristics, scene analysis, induction, heuristic search, theorem-proving, reasoning by analogy, protocol analysis, sentence comprehension, robot planning, question answering, interpretation of imperfect line data, chess programs, etc.

Abstracted/indexed in:

ACM Computing Reviews, Cambridge Scientific Abstracts, DATA NYTT, EIC Intelligence, Engineering Index, INSPEC Abstracts, ISI Current Contents, Mathematical Reviews, Ref. Zhurnal Matematika, Sociological Abstracts.

Audience:

Artificial Intelligence Specialists, Computer Scientists, Cognitive Scientists, Psychologists, Linguists - all both 'pure' and 'applied'.

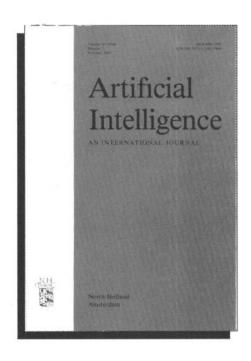
Subscription Information:

1990: Volumes 41-46 in 18 issues Price: US \$743.00/Dfl. 1620.00 (postage/handling included)

ISSN 0004-3702



North-Holland



Editor-in-Chief:

DANIEL G. BOBROW Xerox Corporation Palo Alto Research Center 3333 Coyote Hill Rd. Palo Alto, CA 94304, USA

Associate Editor:

MICHAEL BRADY Dept. of Engineering Science Oxford University, Parks Rd. Oxford OX1 3PJ, UK

Review Editor:

MARK. J. STEFIK (USA)

Research Notes Editor: WOLFGANG BIBEL (FRG)

The Dutch Guilder (Dfl.) price is definitive.
US \$ price is subject to exchange rate fluctuations.

COUPON FOR A FREE INSPECTION COPY OF ARTIFICIAL INTELLIGENCE

Send this form, or a photocopy to:
North-Holland (An Imprint of Elsevier Science Publishers B.V.)
Attn: Petra van der Meer
P.O. Box 103
1000 AC Amsterdam, The Netherlands

For customers in the USA and Canada: Elsevier Science Publishers Attn: Journal Information Center 655, Avenue of the Americas New York, NY 10010, USA

Name		
Professional Address		

407/J/AI

Pattern Recognition Letters

An official publication of the International Association for Pattern Recognition

AIMS AND SCOPE

Pattern Recognition Letters takes a novel approach to the publication of research work in the field of pattern recognition. Its main features are: concise articles, rapid publication and a broad coverage.

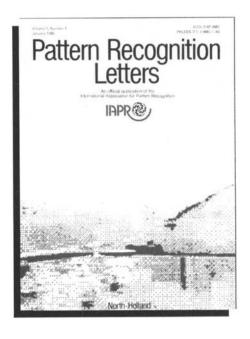
The subject matter of **Pattern Recognition Letters** is image processing and pattern recognition in the stricter sense. In those fields, the papers emphasize theory, methodology and empirical studies or applications. The latter have, however, a strong methodological component. In line with newer developments in pattern recognition, the integration of ideas from artificial intelligence with image processing and pattern recognition techniques receives and will continue to receive much attention.

Letters journals are an important medium of communication in many sciences. The proliferation of literature and long publication delays have made it nearly impossible for researchers and practitioners to keep up with their specialization. **Pattern Recognition Letters** helps to alleviate this problem.

Audience: Researchers in Pattern Recognition, Computer Science, Electrial and Electronic Engineering, Statisticians.



North-Holland



Managing Editors:

E. BACKER
Delft University of Technology
The Netherlands

E.S. GELSEMA Free University of Amsterdam The Netherlands

Subscription Information:

1990: Volume 11 in 12 issues Price: US \$343.00/Dfl. 748.00 (postage/handling included) ISSN 0167-8655

The Dutch Guilder (Dfl.) price is definitive. US \$ price is subject to exchange rate fluctuations.

	JUPUN FUR J	a priee inspecti	UN CUPT UP	PALIENNI	TECOGNITI	UN		Э
_							 _	

Send this form, or a photocopy to:
North-Holland (An Imprint of Elsevier Science Publishers B.V.)
Attn: Petra van der Meer
P.O. Box 103
1000 AC Amsterdam, The Netherlands

For customers in the USA and Canada: Elsevier Science Publishers
Attn: Journal Information Center
655, Avenue of the Americas
New York, NY 10010, USA

Name:				
Professional Address:		 	_	
	 	 ·	····	

407/J/PRL

The knowledge engineering review

Notes for Contributors

Contributions for publication should be addressed to Dr John Fox, Editor, The Knowledge Engineering Review, Biomedical Computing Unit, PO Box 123, Lincoln's Inn Fields, London WC2A 3PX, England, Dr Peter Jackson, North American Editor, McDonnell-Douglas Research Lab, Artificial Intelligence Group, PO Box 516, St Louis, MO 63166, USA, or may be submitted through a member of the Editorial Advisory Board (addresses inside front cover). Submission implies that the manuscript has not been published previously nor currently submitted for publication elsewhere.

All contributions, whether articles, correspondence or reviews, must be sent in triplicate and typed on one side of the paper, with wide margins and double-line spacing throughout. Any minor corrections should be made neatly in the typescript, leaving the margins clear. The author is invited to nominate up to five possible referees, who will not necessarily be used.

Articles must be accompanied by a brief, informative rather than indicative, abstract. Headings should be set out clearly but not underlined. Primary headings should be in lower case, at margin, with arabic numeral; subheadings should be numbered 2.a., 2.b., etc., and tertiary headings, 2.a.1., 2.a.2. No cross-references should be given by page number, but 'above' and 'below' should be used with the section specified, e.g. Section 2.a.2. The SI system of units should be used. The author should mark in the margin of the manuscript where figures and tables may be inserted. References to points in larger works should, where possible, quote the page reference, e.g. Ager, 1981, p. 102.

Tables should be typed with double-line spacing on sheets separate from the running text. Each table must have a caption that will make the data in the table intelligible without reference to the text.

Illustrations should be drafted for reproduction as full page (148 mm) width. Originals should normally be drawn at twice final area and must be sent in a flat package; larger drawings may delay publication. Lettering should be of a size so that when reduced the smallest lower-case letters will not be less than about 1 mm. Avoid gross disparities in lettering size on a drawing. Duplicates of illustrations should be sent, and may be prints or, preferably, photocopies reduced to final size. Illustrations in the text, both line drawings and photographs for halftone reproductions, will be referred to as figures (Fig. 2, 2a, etc.). Folding plates will not be accepted. Figures composed of photographs should be glossy prints presented at publication scale. Figure captions must be typed with double-line spacing on sheets separate from the running text.

The accuracy of references is the responsibility of authors. References must be double-spaced and spelt out in full, e.g.

Gale, W A, ed 1986. Artificial Intelligence and statistics, Reading, Massachusetts: Addison-Wesley

Pearl, J 1984. Heuristics. Intelligent search strategies for problem solving, Reading, Massachusetts: Addison-Wesley

Tie-Cheng Wang and Bledsoe, W W, 1987. "Hierarchical deduction" Journal of Automated Reasoning 3 (1) pp1-34.

Pau, L F, 1986. "Survey of expert systems for fault detection, test generation and maintenance" *Expert Systems*, 3 (2) pp 100–111.

Twenty Five offprints of each paper will be provided free of charge. Additional offprints may be purchased according to a set scale of charges if ordered when the proofs are returned.

The knowledge engineering review



VOLUME 4 NUMBER 2 JUNE 1989

Contents

Applications of nonmonotonic logic to diagnosis PETER JACKSON		97
Logics for reasoning about knowledge and belief HAN REICHGELT		119
A review of temporal logics DEREK LONG		141
Expert system applications' reviews		163
Book reviews		167
From the journals		181

ISSN 0269-8889

CAMBRIDGE UNIVERSITY PRESS

Published by the Press Syndicate of the University of Cambridge The Pitt Building, Trumpington Street, Cambridge CB2 1RP 40 West 20th Street, New York, NY 10011, USA 10 Stamford Road, Oakleigh, Melbourne 3166, Australia

Typeset by Eta Services (Typesetting) Ltd, Beccles Printed in Great Britain by Henry Ling Ltd, Dorchester