

Applied Artificial Intelligence

EDITOR

Robert Trappl

*Austrian Research Institute for Artificial Intelligence,
Schottengasse 3, 1010 Vienna, Austria*



SCOPE

One of the few publications covering *applied* artificial intelligence, this quarterly makes sense of the information explosion in the field by covering applied research as well as actual applications. Coverage spans various uses of expert systems, evaluations of existing AI systems and tools, user experiences, theoretical research that will have bearing on applications, and the economic, social, as well as cultural impacts of AI.

RECENT CONTENTS

NICBES-2, a nickel cadmium battery expert system, *A. Bykat* / An intelligent tuning control technique, *Hong Yao Xu et al.* / **ASCETA**: an expert system for passive network synthesis, *M. Marchesi et al.* / Structured representation of FMS integrating SI-nets and high level petrinets, *A. Camurri & M. Fixione*.

PUBLISHER: Hemisphere

Subscription Information

Volume 5 (1991)

Quarterly

ISSN 0883-9514

Institutional: US\$160 / £94

Personal: US\$ 76 / £47

Send for a free sample copy to:



TAYLOR & FRANCIS

UK: Rankine Road, Basingstoke, Hants RG24 0PR

USA: 1900 Frost Road, Suite 101, Bristol, PA, 19007-1598

Introducing **The Computer Journal**

**The international journal of information technology
and computer applications**

*Editor-in-Chief P Hammersley, Middlesex Polytechnic, The Burroughs, Hendon,
London NW4 4BT, UK*

Coverage

The Computer Journal is one of the world's most eminent periodicals in the field of information technology and computer applications. Its coverage is unmatched by any other computing periodical. It includes advanced programming, computer science theory, databases, hardware and logic design and business applications. It also covers the newer disciplines such as parallel computing, object-oriented programming, logic programming and electronic publishing. Papers are always in the mainstream of new developments; their results are significant and far reaching; above all they are readable.

Type of Articles Published

The Computer Journal publishes original research papers, practical accounts of the latest developments and their likely impact, shorter communications, correspondence about recently published articles, and review articles.

The quality and scope of The Computer Journal can be seen from just a selection of recent and forthcoming articles. Send for a free sample copy and see for yourself!

Subscription information

The Computer Journal (ISSN 0010-4620), Volume 34: February, April, June, August, October and December 1991. £174 for UK subscribers, £185 for subscribers elsewhere.



Cambridge University Press

The Edinburgh Building, Cambridge CB2 2RU, England
40 West 20th St, New York, NY 10011-4211, USA

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 5 NUMBER 4 DECEMBER 1990

Contents

Natural language interfaces to databases ANNE COPESTAKE and KAREN SPARCK JONES	225
Medical AI systems as appropriate technology for developing countries KATHLEEN KING and HOWARD BECK	251
Lighthill 17 years on MARTIN LAM	265
Lighthill 17 years on: end of a shotgun divorce DONALD MICHIE	277
Reply to Lam PETER JACKSON	285
AI and Anglo-Saxon Attitudes: a response to Martin Lam YORICK WILKS	285
Lessons from the Lighthill flap JOHN MCCARTHY	288
Re Lam: Lighthill 17 years on KAREN SPARCK JONES	290
A Rejoinder MARTIN LAM	290
The Alvey programme: footnotes NICHOLAS OSTLER	295
From the journals	303

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 10011-4211, USA
10 Stamford Road, Oakleigh, Melbourne 3166, Australia

Typeset by Paston Press, Loddon

Printed in Great Britain by Henry Ling Ltd, Dorchester