

NEW FROM OXFORD

Benefits and Risks of Knowledge-Based Systems

Council for Science and Society

An authoritative survey of the applications and social implications of knowledge-based systems, this report aims to alert the general public to the potential benefits and possible risks of this technology.

0 19 854743 9, 86 pp., paperback, May 1989
£6.95

Intelligent Systems in a Human Context

Development, Implications, and Applications

Linda A. Murray and
John T. E. Richardson

The development, application, and implications of intelligent systems are the concerns of this book. It looks particularly at how contributions from social scientists might help progress.

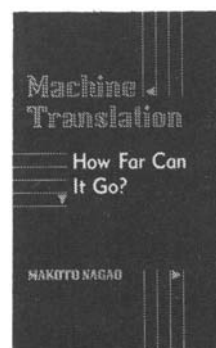
0 19 853736 0, 190 pp., illus., January 1989
£20.00

Machine Translation: How Far Can It Go

Makoto Nagao

This compact book gives a lucid account of the process of machine translation. Up-to-date developments in MT systems are described, and suggestions for the utilization of these systems are given.

0 19 853739 5, 168 pp.,
illus., 1988 £25.00



THE Computer BULLETIN

FOR INFORMATION SYSTEMS PROFESSIONALS

- now 10 issues a year
- new format and policy
- expanded editorial board
- up to the minute NEWS
- full colour FEATURES
- international in scope
- correspondence, guest editorials, recruitment
- serving you, the IT professional

Series 4, Volume 1 (1989) £19 individuals, £30 UK institutions,
£33 elsewhere ISSN 0010-4531

CAMBRIDGE UNIVERSITY PRESS

Please send me a free sample copy of the NEW
Computer Bulletin

Name _____

Address _____

Send to: Journals Publicity, Cambridge University Press, FREEPOST*,
The Edinburgh Building, Shaftesbury Road, CAMBRIDGE CB2 1BR
(Tel: 0223 325807) OR 32 East 57th Street, New York, NY 10022. USA

*No postage stamp needed if posted in UK.

Reader Service No.4

Publishers of the second edition of
The Oxford English Dictionary

OXFORD UNIVERSITY PRESS

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, 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) pp 1-34.

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

VOLUME 3 PART 4 DECEMBER 1988
ISSN 0269-8889

CONTENTS

Editorial Development of the <i>Review</i>	261
Default non-monotonic logic PETER MOTT	265
Expert systems and hypertext ROY RADA and JUDITH BARLOW	285
Metalogic machines: a retrospective rationale for the Japanese Fifth Generation G. A. RINGWOOD	303
Book Reviews	321
Book received for review	327
From the journals. . . .	329

engineering review

CAMBRIDGE UNIVERSITY PRESS

Published by the Press Syndicate of the University of Cambridge
The Pitt Building, Trumpington Street, Cambridge CB2 1RP
32 East 57th Street, New York, NY 10022, USA
10 Stamford Road, Oakleigh, Melbourne 3166, Australia

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