

Vol 2 No 1 January 1983

Information Technology: Research and Development

Editor

C J van Rijsbergen

Published quarterly

Butterworths

Information Technology: Research and Development

Editor

Professor C J van Rijsbergen
Department of Computer Science, University College,
Dublin 4, Ireland

Editorial Board

Dr T R Addis, Department of Computer Science,
Brunel University, Uxbridge UB8 3PH, England

D H Barlow, Kent-Barlow Information Associates,
London W1P 7FN, England

Professor W B Croft, Department of Computer
Science, University of Massachusetts, Amherst
MA 01003, USA

Dr H-P Frei, Institut für Informatik, ETH-Zentrum,
CH-8092 Zürich, Switzerland

H B Gaffner, LINK, New York NY 10003, USA

Dr D J Harper, Division of Computing Research,
CSIRO, East Melbourne Vic 3002, Australia

Dr P Higginson, Department of Computer Science,
University College, London WC1E 6BT, England

Professor M J McGill, Division of Information
Science and Technology, National Science
Foundation, Washington DC 20550, USA

Dr C Montgomery, Operating Systems Inc,
Woodlands Hills CA 91364, USA

Mr N Naffah, INRIA, Domaine de Voluceau,
Roquencourt, Le Chesnay, France

Dr R N Oddy, Computer Centre, University of Aston
in Birmingham, Birmingham B4 7PA, England

Dr C D Paice, Department of Computer Studies,
Lancaster University, Lancaster, England

Dr Tadeusz Radecki, Technical University of
Wrocław, 50-370 Wrocław, Poland

Dr S E Robertson, Centre for Information Science,
The City University, London EC1V 0HB, England

Professor G Salton, Department of Computer Science,
Cornell University, Ithaca NY 14850, USA

Dr H J Schek, IBM Scientific Center, Niederlassung,
Heidelberg, West Germany

Dr P W Williams, Department of Computation,
UMIST, Manchester M60 1QD, England

Professor C T Yu, Department of Information
Engineering, University of Illinois, Chicago IL 60680,
USA

Published quarterly (in January, April, July and
October each year) by Butterworth Scientific Limited,
Westbury House, Bury Street, PO Box 63, Guildford
GU2 5BH, England, Telephone: 0483-31261. Telex:
859556 Scitec G.

Director, Journals Division: A A Smailes; Managing
Editor: R Nath; Assistant Editor: Mrs A Williamson.

Annual Subscription Rates

All subscription orders and inquiries should be sent to
MAGSUB (Subscription Services) Ltd, Oakfield
House, Perrymount Road, Haywards Heath RH16
3DH, England, clearly stating the title of the journal
and the period of the subscription. (Telephone:
0444-459188)

For libraries, universities or other academic
departments, library schools, research centres,
industrial and all other multiple reader institutions
£45. These rates include postage, packing and delivery
by surface mail. Subscribers in the USA, Canada and
Japan receive airspeeded copies for quicker delivery at
no extra cost.

For individuals (certifying that copies are for their
own use and not for their libraries) £22.50. Payment
must be sent with order.

US Mailing Agents

Expeditors of the Printed Word Ltd, 527 Madison
Avenue, Suite 1217, New York NY 10022.
Application to mail at second class postage rate is
pending at New York, NY. Postmaster: Send all
address corrections to this address.

Back issues

Back issues prior to current volume available from
Wm Dawson & Sons Ltd, Cannon House, Folkestone,
Kent CT19 5EE, England. (Telephone: 0303-57421).

Copyright

Readers requiring copies (minimum quantity 100) of
papers published in this journal may either purchase
reprints or obtain permission to copy from the
publisher at the address above. For readers in the
USA, permission to copy is given on the condition
that the copier pay the stated per copy fee through the
Copyright Clearance Center Inc, 21 Congress St,
Salem MA 01970, for copying beyond that permitted
by Sections 107 and 108 of the US Copyright Law.
Fees appear in the code printed at the foot of the first
page of each paper.

All rights reserved. No part of this publication may be
reproduced, stored in a retrieval system or be
transmitted in any form or by any means (electronic,
mechanical, photocopying, recording or otherwise)
without the written permission of the publisher.

No page charges are levied by this journal.

© 1983 Butterworth & Co (Publishers) Ltd

Information Technology: Research and Development

Vol. 2 No. 1 January 1983

CONTENTS

ARTICLES

Experiments with Representation in a Document Retrieval System
W. B. CROFT 1

Graphical Presentation of Information and Services: A User-Oriented
Interface
H. P. FREI AND J.-F. JAUSLIN 23

SURVEY PAPER

Document Retrieval as a Database Application
I. A. MACLEOD AND R. G. CRAWFORD 43

BOOK REVIEWS

J. Pelton: *Global Talk: The Marriage of the Computer, World
Communications and Man*
I. CORNELIUS 61