

*A Study of Computers in Legal Problem Solving*

# **CAPPER AND SUSSKIND: LATENT DAMAGE LAW – THE EXPERT SYSTEM**

By Phillip Capper, Masons, and Richard Susskind, Ernst & Whinney

**Latent Damage Law – The Expert System** is a unique combination. The first package of its kind, it comprises two floppy disks containing the expert system itself, and a hardback book which provides a pioneering case study of the development of the system. The package has far-reaching implications for the field of artificial intelligence and law.

## **Expert systems and the legal profession**

The potential within the legal profession for expert systems – with their ability to capture and make accessible the valuable and scarce resource of legal expertise – is considerable. Expert systems are able to reason not only with formal and fixed rules, but also with the informal and judgmental knowledge inherent in expert legal reasoning. They are set, therefore, to become a vital element in legal practice.

## **Expert systems in latent damage law**

How long does a claimant have to start legal proceedings? The law on this is very complex if the damage is latent. This expert system guides you through the case law on tortious and contractual negligence as well as recent legislation.

## **The package . . .**

The disks containing the expert system are contained within a handy packet at the back of the book. The disks run on IBM PC, XT, AT, and other 100% compatible machines with a minimum 640 Kbytes memory. The book contains an informal case study of the development of the system, imparting the experience and insight the authors have gained from the project, and an appendix provides an installation and user guide for the system, with sample problems.

For all those contemplating the use and development of artificial intelligence techniques, both within and without the legal domain, **Latent Damage Law – The Expert System** will prove an invaluable guide. Order your copy today!

**Hard cover with two floppy disks (text and disks not available separately) £64.50 net inclusive of VAT.**

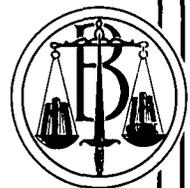
Order from your bookseller or direct from the publisher:

**Butterworth & Co (Publishers) Ltd, Borough Green, Sevenoaks, Kent TN15 8PH**

**Tel: 0732 884567 24-Hour Order Line: 0732 882566**

Bookshop: 9-12 Bell Yard, Temple Bar, London WC2A 2JR Tel: 01-405 6900

In the UK please allow 14 days for delivery after publication



**Butterworths**

# 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 2 JUNE 1988  
ISSN 0269-8889

## CONTENTS

Editorial	
The problem of knowledge elicitation	103
First generation expert systems: a review of knowledge acquisition methodologies	
IAN M. NEALE	105
The nature of expertise and its elicitation for business expert systems: a commentary	
A. D'AGAPEYEFF	147
Convergence of AI programming and software engineering	
C. J. RAWLINGS	159
From the journals . . . . .	171
Books received for review	175

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*