NEW PRODUCT ANNOUNCEMENT

INFERENCING SPREADSHEET

EXPERT SYSTEM DEVELOPMENT TOOL

EXPERT 4

by

R Rivers

An easy-to-use sophisticated disk-based 'Expert System' tool for the IBM PC at an incredibly low cost.

EXPERT 4 is an excellent example of the new breed of programs called 'Expert' or 'Knowledge Base Management' Systems (KBMS). Although analogous to Database Management Systems, information can be stored in KBMS as concepts rather than hard data.

EXPERT 4 can be used to create and manipulate a knowledge base, which employs models of human reasoning or 'artificial intelligence'. It draws on deductive and fuzzy logic, multidimensional statistics and cognitive psychology. The theory behind EXPERT 4 is fully discussed in the documentation which accompanies the disk.

EXPERT 4 offers a spreadsheet which enables the user to create files or 'domains' each of which is made up of 'elements' which have 'attributes'. These have 'attribute values'. For example, in a domain called 'People', 'Jane' is an element. One of her attributes is 'Hair colour'. Jane has brown hair hence 'Brown' is the attribute value.

Inferencing facilities in EXPERT 4 calculate and display relationships amongst the elements and attributes in terms of similarity and typicality. Any two selected items can be compared in detail for their similarities and differences.

An example use would be to assist with diagnosis of a group of diseases with similar symptoms. Existing knowledge of the diseases can easily and quickly be entered into a domain and new information is easily incorporated later. Similarities and differences between items can be explored in terms of the high-level concepts physicians usually employ.

EXPERT 4 offers facilities for manually constructing decision tree rules. Decision rules are used in expert systems to enable users to classify new items (e.g. diagnose new cases) while minimising the requests for information about the items. EXPERT 4 supports facilities for selecting sub-sets of items. All calculations can be performed on sub-sets as well as the whole domain.

Other potential uses of EXPERT 4 are manifold, but to give the user an introduction to the program, a sample domain is incorporated on disk

TO ORDER: PLEASE USE FORM OVERLEAF

Documentation plus 5.25 " floppy disk for the IBM PC

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PLEASE SEND:
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for the IBM PC ☐

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PLEASE SEND:
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plus Demonstration Disk
for the IBM PC ☐

I ENCLOSE:
1. Cheque payable to Expert 4 in US $ or £ sterling

SEND GOODS TO: (please print)

Name _____

Address _____

_____

_____

USER NO: B/V1.3/ 0024

EXPERT4 - User Registration Form

Please complete this user registration form, within one month of purchase, and return it to the biomedical distributor Elsevier Biosoft, 68, Hills Road Cambridge, CB2 1LA, U.K. or the program author. Registered users will receive the following benefits:

They will be entered on the mailing list and will receive details of enhancement and any other news about EXPERT4 that is sent out to registered users.

They will be able to approach the distributor to market domains they have developed with EXPERT4. The distributor cannot consider domains for marketing by non-registered users.

Developments of EXPERT4 will be guided by the needs of registered users.

We would be pleased if, after using the program for a few hours, you would comment under the following categories:

Program Bugs:

Limitation in using the program

Most useful features

Suggested enhancements

You intend to use EXPERT4 for:

(Tick as many as you like)

		Yes	Maybe	No
1	Creating domains for personal use			
2	Creating domains for use in your organisation			
3	Creating domains for resale with the EXPERT4 Run Time Module			
4	To assist in psychological research into category and concept formation, inferencing, etc.			
5	You want to use EXPERT4 for a purpose outside the terms of your current licence agreement. Please specify.			

Your application area/ subject area of special interest is: _____

Name :

Organisation (if any) :

Address :
:
:
:

I agree to the terms of licence agreement no._____

Signed _____ Date _____

(Office use: D _____ A_____)

"Expert 4" by R Rivers

IBM-PC Disk

This double sided disk can be used only on double sided disk drives.

You should copy a version of COMMAND.COM onto the disk before use.*

Three configurations of EXPERT 4 are provided on this disk. They are:

X4-60x20.EXE
X4-24x40.EXE
X4-DEMO.EXE

to use any of these, enter the filename without the .EXE extension.
X4-DEMO will also run if you enter X4DEMO (see p37 of documentation).

For more information enter X4 only*.

* N.B: Users of DOS 1.1 will not be able to make full use of the following files:

X4.COM
X4SELECT.EXE

Entering X4 will produce error(s) eventually.
Entering X4SELECT will provide information, but will have no effect.