

PACKAGE ID - 001119SUN0000 SPIRE1.03

KWIC TITLE - Spatial Paradigm for Information Retrieval and
Exploration

AUTHORS - Adams, K.J.
Pacific Northwest Lab., Richland, WA (United States)

Bohn, S.
Pacific Northwest Lab., Richland, WA (United States)

Crow, V.
Pacific Northwest Lab., Richland, WA (United States)

Lantrip, D.
Pacific Northwest Lab., Richland, WA (United States)

Pennock, K.
Pacific Northwest Lab., Richland, WA (United States)

Pottier, M.C.
Pacific Northwest Lab., Richland, WA (United States)

Schur, A.
Pacific Northwest Lab., Richland, WA (United States)

Thomas, J.
Pacific Northwest Lab., Richland, WA (United States)

Wise, J.A.
Pacific Northwest Lab., Richland, WA (United States)

York, J.
Pacific Northwest Lab., Richland, WA (United States)

LIMITATION CODE -COPY **AUDIENCE CODE** - LIM

COMPLETION DATE - 12/29/1995 **PUBLICATION DATE** - 12/29/1995

DESCRIPTION - The SPIRE system consists of software for visual analysis of primarily text based information sources. This technology enables the content analysis of text documents without reading all the documents. It employs several algorithms for text and word proximity analysis. It identifies the key themes within the text documents. From this analysis, it projects the results onto a visual spatial proximity display (Galaxies or Themescape) where items (documents and/or themes) visually close to each other are known to have content which is close to each other. Innovative interaction techniques then allow for dynamic visual analysis of large text based information spaces.

PACKAGE CONTENTS - Media Directory; Software Abstract; Media Includes Source Code;

PACKAGE ID - 001119SUN0000 SPIRE1.03

PACKAGE CONTENTS - (CONT)

SOURCE CODE INCLUDED? - Yes

MEDIA QUANTITY - 1 CD rOM

METHOD OF SOLUTION - The text sources can come in multiple formats and styles. These are automatically processed without prior knowledge of the topic, themes, or potential clusters. From the analysis one sees and interacts with the relationships discovered within the text vs the traditional approaches (expected relationships through relational data base management technology). Interaction techniques allow the user to identify the causes of topical clusters, the types and structure of information relationships over time, the structure of information relationships, and directly interact with the source text documents for verification of hypotheses and relationship understanding.

COMPUTER - SUN

OPERATING SYSTEMS - SGI, SUN OS< SUN Solarus

PROGRAMMING LANGUAGES - C++

SOFTWARE LIMITATIONS - The system will handle up to 5,000 documents

SOURCE CODE AVAILABLE (Y/N) - Y

UNIQUE FEATURES - Visual analysis of the thematic content without prior knowledge of topics enable a new approach for information analysis

OTHER PROG/OPER SYS INFO - The analysis results are only as good as the information relationships represented with the text corpus.

HARDWARE REQS - SGI Indy workstation or better with 16mb or larger, and SUN Sparc 2 workstation or better.

ABSTRACT STATUS - Submitted 10/16/96. Released AS-IS 11/18/96.

SUBJECT CLASS CODE - P

KEYWORDS -

COMPUTER PROGRAM DOCUMENTATION
S CODES
COMPUTER GRAPHICS
ITERATIVE METHODS
INFORMATION RETRIEVAL
DISPLAY DEVICES

EDB SUBJECT CATEGORIES -
990200

E S T S C
ENERGY SCIENCE & TECHNOLOGY SOFTWARE CENTER
SOFTWARE ABSTRACT

PAGE 3

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PACKAGE ID - 001119SUN0000 SPIRE1.03

SPONSOR - DOE/ER

PACKAGE TYPE - AS - IS