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Access via WWW/Mosaic:

`http://www.dbs.informatik.uni-muenchen.de/dbs/veroeffentlichung.html`

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VisDB:

A Visualization System for Exploring and Analyzing Large Databases

The *VisDB* System, developed at the Institute for Computer Science of the University of Munich is a visualization System which supports the exploration and analysis of large databases using new types of visualization techniques.

Two aspects distinguish our visualization techniques from other approaches: First, the number of data items which can be visualized is much higher than in other approaches. In general, our techniques use each pixel of the display to represent one data value. This means that the number of data values which can be visualized at one point of time is only limited by the number of pixels of the display. A second unique feature of our system is that the generated visualizations are query-dependent. Query-dependency means that not only the data items fulfilling the query are visualized, but also a number of data items that only approximately fulfill the query.

The present version of the *VisDB* system supports the following five visualization techniques:

- Spiral, Axes, and Grouping Technique (Keim, 1994),
- Parallel Coordinates (Inselberg & Dimsdale, 1990) and
- Stick Figures (Pickett & Grinstein, 1988).

Examples of the five visualization techniques are shown on the inside.

The graphical user interface of the *VisDB* system allows a direct interaction with the data. Users may, for example, interactively change the query ranges, highlight corresponding pixels in different windows, use a projection of the visual representation to specific color ranges, or access the attribute values that correspond to some specific pixels.

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