Jonathan Isaac Helfman

US PATENTS

8,463,733 Using dotplots for comparing and finding patterns in sequences of data points
8,451,272 Time expansion for displaying path information
8,436,859 Graphical representations for aggregated paths
8,434,867 Finding sequential matches in eye tracking data
8,432,399 Radial vector plots for paths
8,390,626 Radial histograms for depicting path information
8,286,100 Linking graphical elements of data visualizations
8,150,132 Methods and systems for automatically determining a default hierarchy from data
8,139,063 Rendering data visualization with minimal round-off error
8,108,437 Sortable hash table
8,095,514 Treemap visualizations of database time
7,823,070 Methods and systems for extending existing user interfaces
7,705,847 Graph selection method
7,519,573 System and method for clipping, repurposing, and augmenting document content
7,474,807 System and method for generating usable images
6,396,513 Electronic message sorting and notification system
6,119,135 Method for passively browsing the internet using images extracted from web pages (also WIPO 1997/029414, EP 0879448, CA 2246239)
5,970,484 Method for retrieving texts which are similar to a sample text (also EP 0665504, CA 2128973, JP 1995-219959)
5,953,006 Method and apparatus for detecting and displaying similarities in large data sets (also EP 0561563, CA 2091503, JP 1994-043838)
5,699,507 Method of identifying similarities in code segments (also CA 2167238, JP 1996-241193)
PUBLICATIONS


Helfman, **Image Representations for Access and Similarity-Based Organization of Web Information**, PhD Dissertation, University of New Mexico, CS Department, July 1999.


Helfman, **Dotplot Patterns: A Literal Look at Pattern Languages**, Theory and Practice of Object Systems, Special Issue on Patterns, V2, N1, 1996, pp. 31-41.


Helfman and Gross, **Extending a Graph Browser for Topological Graph Theory**, DIMACS Workshop on Computational Support for Discrete Mathematics, American Mathematical Society, V15, 1993, pp. 297-314.


Papathomas, Kitsopoulos, and Helfman, **Arrows-anchors: Figure-Ground Reversals**, Perception V18, N5, 1989, p. 689.


**SELECTED FXPAL TECHNICAL REPORTS & MEMORANDA**


**SELECTED BELL LABS TECHNICAL MEMORANDA**


Wish, Blewett, Helfman, and Edmark, **Taming the UNIX™ Interface: A New Approach and Prototype**, Sept., 1986.

Weil and Helfman, **Specification for Animation Using Keyframes (SPANKEY)**, Nov. 1984.

**INVITED TALKS**


**Exploring Textual Similarity Patterns in Millions of Lines of Text and Software**, New Mexico State University, Las Cruces, NM, Jan. 1994.