Abstract
80 minute video demonstrations of the past year's research

Topics are:

• Introduction and table of contents - Ben Shneiderman, [3:18]
• Visual information seeking using the FilmFinder - Christopher Ahlberg, Ben Shneiderman, [6:12]
• Organization overviews and role management-Inspiration for future desktop environments - Catherine Plaisant, Ben Shneiderman, [9:39]
• Visual decision-making: using treemaps for the analytic hierarchy process - Toshiyuki Asahi, Ben Shneiderman, David Turo, [8:34]
• Visual information management for satellite network configuration-Catherine Plaisant, Harsha Kumar, Marko Teittinen, Ben Shneiderman, [8:49]
• Graphical macros: a technique for customizing any application using pixel-pattern matching-Richard Potter, [9:49]
• Education by engagement and construction: can distance learning be better than face to face?- Ben Shneiderman, [15:00]
• Dynamic queries demos: revised HomeFinder and text version plus health statistics atlas-Ben Shneiderman, [9:40]

Dynamic Queries are user controlled displays of visual or textual information. Ben Shneiderman presents the HomeFinder (developed by Chris Williamson), followed by the text version (Vinit Jain) and the Health Statistics Atlas (Catherine Plaisant and Vinit Jain).
• CHI '94 slide and video show- [9:12]
Open House '94 Video

•Introduction and table of contents- Ben Shneiderman, [3:18]
  An introduction to the Human-Computer Interaction Laboratory,
  mentioning TreeViz-PC, a treemap directory maintenance tool
  running in Windows.

•Visual information seeking using the FilmFinder
  Christopher Ahlberg, Ben Shneiderman, [6:12]
  FilmFinder allows users to explore a large film database. By
  applying the dynamic queries approach to filtering information, a
  continuous starfield display of the films, and tight coupling among
  the components of the display, the FilmFinder environment
  encourages incremental and exploratory search.

•Organization overviews and role management-Inspiration for
  future desktop environments
  Catherine Plaisant, Ben Shneiderman, [9:39]
  In our exploration of future work environments for the World Bank
  we propose two concepts. Organization overviews provide a
  consistent support to present the results of a variety of manual or
  semi-automated searches. This view can be adapted or expanded
  for each class of users to finally map the multiple personal roles an
  individual has in an organization. After command line interfaces,
  graphical point and click interfaces, and the current "docu-centric"
  designs, the natural direction is towards a role-centered approach
  where we believe the emphasis is on the management of those
  multiple roles. Each role involves coordination with groups of
  people and accomplishment of tasks within a schedule.

•Visual decision-making: using treemaps for the analytic
  hierarchy process- Toshiyuki Asahi, Ben Shneiderman, David Turo,
  [8:34]
  The analytic hierarchy process, a decision-making method based
  upon division of problem spaces into hierarchies, is visualized
  through the use of treemaps, which pack large amounts of hierarchi-
  cal information into small screen spaces. The problem of construc-
  tion site selection is considered in this video. Apart from its
  traditional use for problem/information space visualization, the
  Treemap also serves as a potent visual tool for “what if” type
  analysis.

•Visual information management for satellite network
  configuration- Catherine Plaisant, Harsha Kumar,
  Marko Teittinen, Ben Shneiderman, [8:49]
  Our prototype network configuration management system illustrates
  the benefits of compact overviews of the network and the tasks.
  General purpose tools are available to visualize and query the
  network, access detail information and gather elements relevant to
  the task. The Treemap combined with dynamic queries proved well-
  suited to deal with the multiple containment hierarchies in net-
  works. The TreeBrowser uses the more conventional node-link
  visualization of trees, and tightly coupled overviews linked to
  detailed views.

•Graphical macros: a technique for customizing any application
  using pixel-pattern matching- Richard Potter, [9:49]
  Triggers is a Graphical Macro system that allows users to customize
  and add functionality to applications. Graphical Macros work by
  simulating the actions of the user and introduce the novel technique
  of scanning the pixel representations of the graphical user interface.
  The Graphical Macro technique allows Triggers to customize any
  application. Example customizations are shown for spreadsheet,
  drawing, word processing, and file management applications.

•Education by engagement and construction: can distance
  learning be better than face to face?- Ben Shneiderman, [15:00]
  An emerging theory of “education by engagement and construction”
  is described, in which students work in teams to create ambitious
  projects with results that are presented to someone other than the
  professor. The video shows how a distance learning Graduate
  Computer Science Seminar titled "Virtual Reality, Telepresence
  and Beyond" was con-ducted according to this theory. The intense
  interactions by satellite TV and electronic mail may have created a
  greater sense of interaction and intimacy among the students than
  many face-to-face courses.

•Dynamic queries demos: revised HomeFinder and text version
  plus health statistics atlas- Ben Shneiderman, [9:40]
  Because of the great interest in Dynamic Queries we are making
  these video demos available for instructional and training purposes.
  We appreciate the cooperation of the University of Maryland
  Instructional Television, which produced the original 5-hour User
  Interface Strategies '94 program.
  Dynamic Queries are user controlled displays of visual or textual
  information. Ben Shneiderman presents the HomeFinder (devel-
  oped by Chris Williamson), followed by the text version (Vinit
  Jain) and the Health Statistics Atlas (Catherine Plaisant and Vinit
  Jain).

•CHI '94 slide and video show- [9:12]

Ordering Information

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