Is the tree on the cover a photograph? Is it possible to reproduce such a tree with a computer? This image by Jules Bloomenthal was first shown at SIGGRAPH 85. Read more about it and the atmosphere in which it was created on page 4.

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15 Guest Editors’ Introduction
   Patrick E. Mantey and Robin Williams

17 The Professional Workstation Research Project
   Roy H. Campbell, William J. Kubitz, and the Professional Workstation Research Group
   This project combines a powerful object-oriented graphics system and a LAN-supported distributed operating system. Its goal is to increase user productivity significantly.

25 A Theory of Productivity in the Creative Process
   James T. Brady
   When everything goes right, we are said to be on a roll. The theory of roll states that this is not a random occurrence, and system response time is a major factor.

35 Constraint-Based Tiled Windows
   Ellis S. Cohen, Edward T. Smith, and Lee A. Iverson
   Tiled window systems have great potential but require too much of the user. Domain-specific knowledge can reduce this workload, making tiling more palatable.

46 WHIM, the Window Handler and Input Manager
   Michael J. Goodfellow
   Window managers are important multitasking tools, because they allow users to do several things at once. WHIM, which uses an overlapped window scheme, is compared to tiled window managers.

53 A Bridge from Full-Function to Reduced-Function Workstations
   Richard L. Phillips, Daniel E. Atkins, Nancy A. Benovich, and Brian D. Schipper
   Faced with supplying computing power to 6500 users, the University of Michigan devised a way to bring the full power of an Apollo workstation to an Apple Macintosh.

58 Realization and Application of an Intelligent GKS Workstation
   Ray G. Spiers
   This intelligent output/input workstation is a practical realization of the GKS standard for 2D graphics, which has already had an impact on the international computer graphics industry.

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