FEATURE ARTICLES

8 Interactive Computer Graphics: Flying High—Part I  Ware Myers
The growth of computer graphics is remarkable even by computer industry standards. This first of a two-part article views some of the latest hardware available from leading graphics manufacturers.

19 Robots, Models, and Automation  Richard Paul
Low-cost, mass-produced industrial robots could free human workers from the tedium of the assembly line. Such robots may be possible within the next decade.

This proposed standard eliminates many of the problems in the S-100 bus and upgrades it for 16-bit microprocessors. It is offered here for public comment before submission to the IEEE Standards Board.

61 Standards Committee Activities: An Update  David B. Gustavson
The IEEE Computer Society Standards Committee and the Microprocessor Standards Subcommittee have made progress on several fronts. This work is likely to have significant and lasting benefits for the computer industry.

66 Patent Protection and the Computing Arts  Robert J. Frank
The Constitution affords patent protection to inventions within the "useful arts," but not to scientific—or mathematical—discoveries. What, then, is a computer program's algorithm?

74 The DoD Initiative in Integrated Circuits  Ruth M. Davis
The Department of Defense's Very High-Speed IC Program includes research in areas such as submicron fabrication technology and advanced signal processing. DoD foresees results beneficial to both commercial and military applications.

81 Yes, Folks, Standards Are a Many-Splendored Thing  Philip H. Braverman
The use of written guidelines for application development contributes to a better product, increased productivity, and better communication with both management and users.

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53 COMPCON 79 Fall Advance Program

86 Open Channel: Barriers to Wafer-Scale Integration  Norman Delano
Available Names for Programming Languages  J. D. Grimes

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