FEATURE ARTICLES

8  C\textsuperscript{1} Quadratic Interpolation Over Arbitrary Point Sets
Zoltan J. Cendes and Steven H. Wong
Quadratic Bezier polynomials provide a simple, efficient, and accurate algorithm for C\textsuperscript{1} interpolation over arbitrary data points.

17  A Parametric-Space-Based Scan-Line Algorithm for Rendering Bicubic Surfaces
X. Pueyo and F. Brunet
This new algorithm does most of the computations in the parametric space and computes the intersection of the surfaces with only a restricted set of scan planes.

26  Image Composition via Lookup Table Manipulation
James D. Foley and Won Chul Kim
Video lookup tables for interactive graphics application programs can be conveniently loaded using this Image Composition Language.

36  A Control-Point-Based Sweeping Technique
Sabine Coquillart
This article outlines and reports on a general sweeping technique for nonuniform rational B-splines.

47  IGES Model Comparison System: A Tool for Testing and Validating IGES Processors
H. Grabowski and R. Glatz
IMCOS is a table-driven test tool for the semantic comparison of two IGES models to detect loss of information and functionality during IGES data exchange.
DEPARTMENTS

3  Displays on Display
   A Proposal for Standard Graphics Environments

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