ARTIFICIAL INTELLIGENCE

25 Guest Editors' Introduction
Norman I. Badler and Timothy W. Finin

29 APEX: An Experiment in the Automated Creation of Pictorial Explanations
Steven Feiner
How might we automate the design of pictures that are intended to show the viewer how to perform a series of tasks?

38 The SAGE System Architecture: A System for the Rapid Development of Graphics Interfaces for Decision Support
Eric K. Clemons and Arnold J. Greenfield
Easily defined and modified icons are the building blocks of a flexible system designed to support sensitivity analysis.

51 GUIDON-WATCH: A Graphic Interface for Viewing a Knowledge-Based System
Mark H. Richer and William J. Clancey
Multiple windows, menus, and a mouse help students browse through a complex medical consulting database and view reasoning processes during a consultation.

DEPARTMENTS

3 Letters to the Editor
4 About the Cover
12 Displays on Display
18 Call for Papers
19 Application Briefs
65 Selective Update
68 New Products
76 Product Highlights
78 Professional Calendar
79 Classified Ads
80 Advertiser/Product Index

IEEE CG&A subscription form and IEEE CS membership information, p. 18.
Change-of-Address Form, p. 18
Reader Service Cards, p. 81
Published by the IEEE Computer Society