This Week in *Science*

### Editorial
- Results and Discussion in an Election Year

### Letters
- Crystallographic Citations: W. A. Hendrickson; G. D. Rose; F. M. Richards
  - Energy Consumption: D. Bodansky
  - Knot Really: D. N. Baker
- Relman on Maddox: A. S. Relman

### News & Comment
- Savannah River Blues
- Security at Weapons Labs
- EPA Sets New Policy on Pesticide Cancer Risks
- Congress Passes First AIDS Bill
- Supercomputer Centers Enter New Phase
- USDA Fights to Repel African Bees' Invasion
- Family Planning: A Growing Gap
- Candidates' Heroes
- Let 100 Million Trees Bloom
- NSF Pauses to Assess Engineering Centers

### Research News
- HTLV-I: To Test or Not to Test
- Mathematicians Reach Factoring Milestone
- Discovery Gets a Clean Bill of Health
- New Clues About Kaposi's Sarcoma
- Does Earth Fill Its Own Magnetosphere with Ions?
- Shroud of Turin Is Medieval
- Microscopic Motor Is a First Step

### Articles
- Significance of "Tethyan" Fossils in the American Cordillera: C. R. Newton
- Phenotypic Diversity Mediated by the Maize Transposable Elements Ac and Spm: S. R. Wessler

### Research Articles
COVER Camera image overlayed with discontinuities in texture (yellow), motion (orange), and stereo depth (green). The discontinuities are computed from the output of early vision modules coupled with brightness gradient data using Markov random fields. The union of the discontinuities produces a "cartoon" which is used by a parallel recognition algorithm. See page 436. [T. Poggio et al., Artificial Intelligence Laboratory, Massachusetts Institute of Technology, Cambridge, MA 02139]

Reports

412 Constraint of the Translational Diffusion of a Membrane Glycoprotein by Its External Domains: M. Wier and M. Edidin

414 A Graph-Dynamic Model of the Power Law of Practice and the Problem-Solving Fan-Effect: J. Shrager, T. Hogg, B. A. Huberman

417 Rapid Growth of Magnesium-Carbonate Weathering Products in a Stony Meteorite from Antarctica: A. J. T. Jull, S. Cheng J. L. Gooding, M. A. Velbel

419 Herbicide Resistance in Transgenic Plants Expressing a Bacterial Detoxification Gene: D. M. Stalker, K. E. McBride, L. D. Maly


426 Kaposi's Sarcoma Cells: Long-Term Culture with Growth Factor from Retrovirus-Infected CD4+ T Cells: S. Nakamura, S. Z. Salahuddin, P. Biberfeld, B. Ensoli, P. D. Markham, F. Wong-Staal, R. C. Gallo

430 Angiogenic Properties of Kaposi's Sarcoma-Derived Cells After Long-Term Culture in Vitro: S. Z. Salahuddin, S. Nakamura, P. Biberfeld, M. H. Kaplan, P. D. Markham, L. Larsson, R. C. Gallo


436 Parallel Integration of Vision Modules: T. Poggio, E. B. Gamble, J. J. Little

440 Earthquake-Caused Coastal Uplift and Its Effects on Rocky Intertidal Kelp Communities: J. C. Castilla

443 Activation of Muscarinic Potassium Currents by ATPyS in Atrial Cells: A. S. Otero, G. E. Breitwieser, G. Szabo

Book Reviews

448 Uneasy Careers and Intimate Lives, reviewed by J. Conway

The American Census, R. V. Wells

The Child's Construction of Economics, H. G. Furth

Some Other Books of Interest

Books Received

Products & Materials

453 Theorem-Proving Software

Membrane Filtration by Rotary Separation

Scanning Electron Microscope

Protein G

DNA Gel Documentation System

Warming Stages

Automated HPLC System

Literature
Science 242 (4877), 343-453.