

Refereed

- 8 Information Access and Network Usage in the Emerging Spatial Information Marketplace
David J. Coleman and John D. McLaughlin
- 20 An Internet-Based GIS Data Access System
Zhong-Ren Peng and Douglas D. Nebert
- 31 Estimating Societal Impacts of Infrastructure Damage with GIS
Steven P. French and Xudong Jia
- 44 User Interfaces for Map Algebra
H. Thomas Bruns and Max J. Egenhofer

Feature Map

- 56 GIS Adds a New Dimension to Crash Analysis
Delores Andaluz, Tina Roberts and Sheryl Siddall

Features

- 61 Programming Languages and GIS: A Primer
Adena Schutzberg
- 64 Object-Oriented GIS Supports Rapid Application Development
Damon D. Judd
- 67 Digital Mapping: Payoff From a Paradigm Shift
Gene V. Roe
- 69 AURISA '96: Participation in the Land Down Under
Ben Niemann and Sue Niemann

Reviews

Books

- 74 Raster Imagery in Geographic Information Systems
(Stan Morain and Shirley Lopez Baros (eds.), Onword Press)
Damon D. Judd
- 76 GIS Diffusion
(Ian Masser, Heather Campbell and Massimo Craglia (eds.), Taylor & Francis)
Timothy L. Nyerges

- 80 The Human Side of Information Technology Management
(Edward Szewczak and Mehdi Khosrowpour (eds.), Idea Group Publishing)
Jeffrey K. Pinto

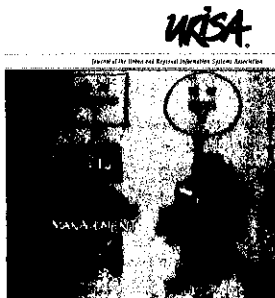
Software: In Depth

- 82 Discrete-Choice Modeling with HieLoW
Paul Mackun and Jean-Claude Thill

Review of Current Journal Literature

- 86 Compiled by Zorica Nedovic-Budic

On the Cover



Questions of accuracy, questions of wisdom face today's information technology professionals. We're building better mousetraps, but are we using them wisely? This is but one of the questions that conference attendees grappled with at the '96 AURISA (Australasian Urban and Regional Information Systems Association) conference held in Hobart, Tasmania last November.

Cartoonist Jock Macneish, with his ability to express complex ideas in simple images, captured a dozen themes that emerged during this unique conference. The conference offered traditional session papers, but it introduced parallel *issue* sessions, which organizers dubbed "open-space technology." These were self-organizing sessions with a moderator, but no set agenda. The result? More than 40 *ad hoc* sessions that offered up a fascinating set of issues to ponder.

For more of Jock's cartoons, and a full conference report filed by URISA's Ben and Sue Niemann, see p. 69. (Cartoons reprinted with permission of Jock Macneish and AURISA)