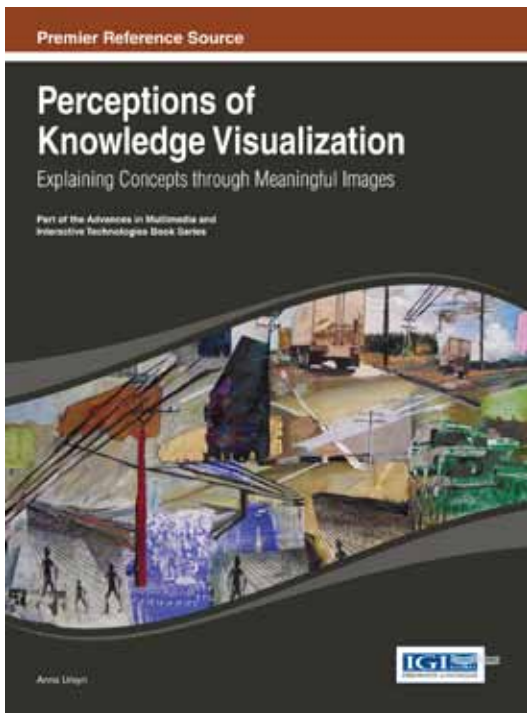


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Perceptions of Knowledge Visualization: Explaining Concepts through Meaningful Images



Part of the Advances in Multimedia and Interactive Technologies Book Series

Anna Ursyn
(University of Northern Colorado, USA)

Multisensory perception is emerging as an important factor in shaping current lifestyles. Therefore, computer scientists, engineers, and technology experts are acknowledging the comparative power existing beyond visual explanations.

Perceptions of Knowledge Visualization: Explaining Concepts through Meaningful Images discusses issues related to visualization of scientific concepts, picturing processes and products, as well as the role of computing in the advancement of visual literacy skills. By connecting theory with practice, this book gives researchers, computer scientists, and academics an active experience which enhances the perception and the role of computer graphics.

Topics Covered:

- Visual Literacy
- Virtual Environments
- Cognitive Processes
- Digital and Traditional Illustration
- Knowledge Visualization
- Multisensory Perception
- Translating Data into Visuals

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Anna Ursyn, PhD, is a Professor and Computer Graphics Area Head at the School of Art and Design, University of Northern Colorado. She combines programming with software and printmaking media, to unify computer generated and painted images, and mixed-media sculptures. Ursyn had over 30 single juried and invitational art shows, participated in over 100 fine art exhibitions, and published articles and artwork in books and journals. Research and pedagogy interests include integrated instruction in art, science, and computer art graphics. Since 1987 she serves as a Liaison, Organizing and Program Committee member of International IEEE Conferences on Information Visualization (iV) London, UK, and Computer Graphics, Imaging and Visualization Conferences (CGIV). She serves as Chair of the Symposium and Digital Art Gallery D-ART iV, 1997-2011.



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