



CALL FOR PARTICIPATION

October 8 • October 13, 2000
Doubletree Hotel
Salt Lake City, Utah



Sponsored by IEEE Computer Society Technical Committee on Visualization and Graphics In Cooperation with ACM/SIGGRAPH

Visualization is a vital research and applications frontier shared by a variety of scientific, medical, engineering, business, and entertainment fields. IEEE Visualization 2000 focuses on interdisciplinary methods and collaboration among developers and users of visualization methods across all of science, engineering, medicine, and commerce. Sunday through Tuesday of Conference Week will include tutorials, symposia, and mini-workshops. Papers, panels, case studies, and works in progress will be presented Wednesday through Friday.

We invite you to participate in IEEE Visualization 2000 by submitting your original research through papers, panels, case studies, work in progress, and demonstrations. Share your perspectives through panels and workshops, or your experience through tutorials. Please select the forum appropriate to your submission, where it will be considered by your peers for presentation. Particular focus on volume visualization and information visualization are addressed in special two-day symposia.

For further information on the conference or symposia contact:

Charles Hansen, Conference Co-Chair, *University of Utah* • 801-581-3154 • Fax: 801-581-5843 • hansen@cs.utah.edu

Chris Johnson, Conference Co-Chair, *University of Utah* • 801-581-7705 • Fax: 801-585-6513 • crj@cs.utah.edu

Steve Bryson, Conference Co-Chair, *NASA Ames Research Center* • 650-604-4524 • Fax: 650-604-3957 • bryson@nas.nasa.gov

See the conference web page for complete up-to-date information at <http://www.erc.msstate.edu/vis2000>

The three conference tracks cover:

Visualization Algorithms *Volume Rendering, Flow Visualization, Isosurfaces, Compression, Vector and Tensor Visualization, Sonification, etc.*

Visualization Techniques *Information Visualization, Databases, Human Perception, Human Factors, Multivariate Visualization, Virtual Reality, etc.*

Visualization Applications *Archaeology, Astrophysics, Aerospace, Automotive, Biomedicine, Chemistry, Education, Electronics, Environment, Finance, Mathematics, Mechanics, Molecular Biology, Physics, Virtual Reality, WWW, Java, VRML, HTML, AVS, Data Explorer, Iris Explorer, Khoros, vtk, etc.*

Paper Submissions *(due March 31, 2000)*

Papers are solicited that present research results related to all areas of visualization. Original papers are limited to 5,000 words. The submission of NTSC VHS video (up to 5 minutes in length) to accompany the paper is strongly recommended. This year we will begin accepting electronic submissions of papers. If you choose to submit electronically, please submit in PDF or postscript format. If you choose to submit hardcopy, please submit 7 hardcopies of all materials. Regardless of whether you submit your paper electronically or in the hardcopy format, a complete paper submission form including the abstract must be sent through the conference website for each submission. Details for electronic submission are available at <http://www.erc.msstate.edu/vis2000/>. Accepted papers will be included in the conference proceedings; the videos will be included in the conference video proceedings.

Hard copy paper submissions should be sent to Amitabh Varshney, Visualization 2000 • 2425 Computer Science Bldg • State University of New York at Stony Brook Stony Brook, NY 11794 • 631-632-8446

IMPORTANT DATES

- March 31:** Conference papers, Panels, Case Studies, Tutorials, Mini-Workshops, BOF proposals, InfoVis 2000 papers, and VolViz 2000 papers due
- May 30:** Conference papers, Panels, Case Studies, Tutorials, Mini-Workshops, BOF proposals, and InfoVis 2000, and VolViz 2000 selections announced
- June 15:** Conference Work in Progress and Demonstration proposals due
- June 30:** InfoVis 2000 Late Breaking Hot Topics papers due
- July 17:** Final Conference papers, final InfoVis 2000 papers, and VolViz 2000 papers due to publisher
- August 1:** Conference Work in Progress selections announced
- August 21:** Conference Work in Progress final abstracts due to publisher
- August 31:** Conference Work in Progress video submissions due
- September 8:** *Close of Early Registration*
- October 8:** *Conference Commences*
- October 9:** *InfoVis 2000 and VolViz 2000 Commence*

Panel Proposals (due March 31, 2000)

Panels should address the most important issues in visualization today. Panelists should be experts in their fields who can discuss the challenges of visualization, and engage the audience and fellow panel members in a stimulating, interactive debate. Panel proposals should describe the topic to be addressed and identify the prospective panelists. Each panelist should include a position statement on the topic and a short biography, the total of which should be limited to 500 words. The statements will be included in the conference proceedings.

Panel proposals should be sent to **Jamie Painter** • jamie@acl.lanl.gov

Case Study Papers (due March 31, 2000)

Case studies are reports on how visualization has contributed to the analysis of data in actual applications or studies of the visualization process. A short paper limited to 2,500 words (maximum 4 pages B/W plus 1 page color) will be included in the conference proceedings. Images and/or NTSC VHS video to accompany the paper are recommended; the video will be included in the conference video proceedings. This year we will begin accepting electronic submissions of the papers in PDF or postscript format. If electronic submission is not possible, please submit 7 hardcopies of all materials.

For more detailed information concerning submission, see the web site, or contact **Robert van Liere** • robertl@cwi.nl

Work in Progress (due June 15, 2000)

Submissions are solicited for Works in Progress sessions that pertain to all areas of visualization. These submissions must be original abstracts, must describe work in progress by the authors and their collaborators, and may not exceed 500 words or a maximum of 1 page. Images and/or NTSC VHS video to accompany the abstract are recommended. Authors of accepted abstracts will have an opportunity to submit a revised and extended abstract, as well as present the work at the conference. These extended abstracts may not exceed 1,000 words or a maximum of 2 pages including images. All accepted abstracts will be distributed at the conference but not published in the conference proceedings. Videos associated with accepted abstracts may be included in the conference video proceedings. All submissions will be done electronically. Submission details can be found at the conference web site.

For further information, contact **Sam Uselton** • uselton1@llnl.gov

Tutorial Proposals (due March 31, 2000)

Half-day and full-day course proposals are invited for visualization systems, methods, and application areas. Tutorials will be offered Sunday, Monday, and Tuesday. For more detailed information concerning submission and format content, see the conference web site, or contact **Penny Rheingans** • rheingan@cs.umbc.edu

Mini-Workshop and Birds-of-a-Feather Proposals (due March 31, 2000)

Proposals may be submitted for Mini-Workshops and evening Birds-Of-A-Feather (BOF) gatherings on visualization methods or application areas. They should deal with state-of-the-art topics and involve experts in the field. Discipline-focused proposals devoted to a particular discipline's methods and needs are encouraged.

Mini-Workshop and Birds-of-a-Feather Proposals should be sent to **Rob Erbacher** • erbacher@cs.albany.edu

Demonstration Proposals

Visualization 2000 is a unique opportunity to present your products or research to visualization experts from a wide variety of fields. We invite demonstrations of commercial hardware, software, integrated systems peripherals, and literature, as well as academic research. We encourage demonstrators to have technical representatives in attendance.

For more information on participating in Visualization 2000 demonstrations, contact **Eric Greenwade** • leg@inel.gov

Creative Applications Lab (due July 15, 2000)

The Creative Applications Lab (CAL) is designed to let presenters interact with conference attendees on an individual basis, and to let attendees demonstrate their own visualization systems and techniques. The CAL will have a variety of computers on which the contributors and attendees can install their materials for others' experimentation and enjoyment. The CAL will be open in conjunction with the demonstrations at Visualization 2000. For details on participating in the CAL, see the conference web site or contact **Russell Taylor** • taylorr@cs.unc.edu.

IEEE SYMPOSIUM ON INFORMATION VISUALIZATION (INFOVIS 2000)

Sponsored by the IEEE Computer Society Technical Committee on Visualization and Graphics

October 9-10, 2000 ■ Doubletree Hotel ■ Salt Lake City, Utah

InfoVis 2000, the sixth Information Visualization Symposium, will be held to focus on the rapidly growing area of information visualization. Increasing amounts of data and information and the availability of fast digital network access are creating a rapidly growing demand for accessing, querying and retrieving information and data. However, information technology will not transform business, science, medicine, engineering, and education if users cannot use it easily and efficiently. Technology must come to the users, taking their needs into account. If we do not involve the users, we will develop useless systems. InfoVis 2000 will focus on all aspects of information visualization and human-centered information interfaces, and on ways in which advances in interactive computer graphics hardware, mass storage, and data visualization can be used to visualize information. Submissions are solicited in all areas of information visualization and human-centered information interfaces, including, but not limited to, such topics as:

- Interactive information visualization
- Multi-dimensional information visualization
- Information presentation
- Visualization of complex information
- Information visualization for heterogeneous audiences
- Visualizing the Internet and WWW
- Browsing and other navigation methods
- Visualization algorithms
- Visualization of algorithms
- Visualization of textual information
- Visualization and knowledge discovery
- Visualization of search results
- Graph / network visualizations
- Geographic visualizations
- Empirical studies
- Data structures and models for information visualization
- Visualization systems for collaborative workspaces

Paper Submissions: The deadline for submission is March 31, 2000. Papers should be at most 8,000 words including an abstract, affiliation, and keywords, and should present previously unpublished original results. Please submit 8 copies of your paper. Video submissions (NTSC VHS) with

INFOVIS 2000 (continued)

papers are welcome (4 copies), but are not required. Videos will assist reviewers' assessment of the papers. Submit to:
Steven Roth • *MAYA Viz* • 2100 Wharton Street • Pittsburgh, PA 15203 • USA • 412-488-2900
Fax: 412-488-2940 • roth@maya.com

For more information, please contact **Daniel A. Keim** • keim@informatik.uni-halle.de

InfoVis Late Breaking Hot Topics (due June 30, 2000)

Submissions will be accepted on Late Breaking "Hot Topics" that pertain to all areas of Information Visualization. These submissions must be original, may show work in progress, and may not exceed 2,000 words or a maximum of 4 pages including images. Images to accompany the paper are recommended. Accepted papers will be published and distributed at the conference.

Authors of accepted papers will have an opportunity to submit a revised paper. Submissions of printed papers (8 copies, due June 30, 2000) should be sent to **Nahum Gershon**, *The MITRE Corporation* • 1820 Dolley Madison Blvd. McLean, VA 22102 • USA • 701-883-7518 • Fax: 703-883-5230 • gershon@mitre.org

For more information on InfoVis Late Breaking Hot Topics, please contact **Keith Andrews** • kandrews@iicm.edu

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For further information <http://www.infovis.org/infovis2000>

VOLUME VISUALIZATION AND GRAPHICS SYMPOSIUM (VOLVIZ 2000)

Co-sponsored by the IEEE Computer Society and ACM/SIGGRAPH

October 9-10, 2000 ■ Doubletree Hotel ■ Salt Lake City, Utah

The Seventh Volume Visualization Symposium (VolViz 2000) will be held October 2000 in conjunction with IEEE Visualization 2000. Papers containing original work in all areas of volume visualization and graphics are solicited. Of special interest are papers dealing with very large volumes and papers dealing with volume graphics modeling and rendering.

Suggested topics include:

- Modeling with volumes
- Volume manipulation and deformation
- Voxel representations
- Hardware-assisted volume rendering
- Hardware and software architectures
- PC-based volume graphics
- Special purpose hardware for volume graphics
- Interacting with volumetric models
- Volume rendering of extremely large datasets
- Compressed volume data
- Iso-surface extraction
- Vector field visualization
- Visualization of multiple related fields
- Time-varying volume data
- Volume rendering of curvilinear and irregular grids
- Applications of volume graphics and volume visualization

Submissions: The deadline for submissions is March 31, 2000. Final papers will be limited to 8 proceedings pages plus one page of color figures. There are two alternative ways to submit a contribution. The preferred method is to submit all your material via e-mail in compressed postscript format to: volviz00@cis.ohio-state.edu. Videos should be in MPEG format and images in JPEG or TIFF.

Or, you may choose to send five copies with any accompanying NTSC video to the following postal address:

Roger A. Crawfis, *The Ohio State University* • Department of Computer and Information Science • 2015 Neil Ave. • Columbus, OH 43210 • 614-292-2566

For further information e-mail: volviz00@cis.ohio-state.edu or see <http://www.cis.ohio-state.edu/volviz/volviz00.html>

CRITICAL DATES

- March 31:** Papers Due
- May 30:** Notification of acceptance
- July 17:** Final papers due to publisher
- October 9:** Symposium commences

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