# A Bibliography of Publications about the *Data Explorer* Scientific Visualization System


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## Title word cross-reference

# References

**Aliferis:1994:DEP**

[ACC94] C. Aliferis, E. Chao, and G. F. Cooper. Data Explorer: a prototype expert system for statistical analysis. In Safran [Saf94], pages 389–393. ISBN 0-07-001502-3. LCCN W3 SY5074K 1993.

**Arya:1994:QED**

[ACF$^+$94] M. Arya, W. Cody, C. Faloutsos, J. Richardson, and A. Toga. QBISM: Extending a DBMS to support 3D medical images. In Data Engineering '94 [Dat94], pages 314–325 (or 314–327??). ISBN 0-8186-5402-3 (case), 0-8186-5400-7 (paperback), 0-8186-5401-5 (microfiche). LCCN QA76.9.D3 I5582 1994. IEEE Computer Society Press order number 5400-02. IEEE Catalog Number 94CH3383-7.

**Alpern:1993:OMT**

[ACGP93] B. Alpern, L. Carter, M. Grayson, and C. Pelkie. Orientation maps:

Techniques for visualizing rotations (A consumer's guide). In Nielson and Bergeron [NB93], pages 183–188. ISBN 0-8186-3942-3 (case), 0-8186-3940-7 (paper), 0-8186-3941-5 (microfiche). ISSN 1070-2385. LCCN T385 .I192 1993.

**Abramson:1996:RDN**

[AFMS96] David Abramson, Ian Foster, John Michalakes, and Rok Sočič. Relative debugging: A new methodology for debugging scientific applications. *Communications of the ACM*, 39(11): 69–77, November 1996. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). URL `http://www.cit.gu.edu.au/~davida/guard.html`. Uses IBM Data Explorer to illustrate the computational differences between two versions of the same program, using the Guard (Griffith University Relative Debugger) system to automatically carry out run-time monitoring and comparison of results of two implementations of the same program, possibly written in different programming languages, and possibly running on different computer architectures at different geographic locations.

**Anonymous:1994:IPD**

[Ano94a] Anonymous. IBM ports its Data Explorer 2-D and 3-D visualization packages to Alpha. *Digital News and Review*, 11(16):8–??, August 1994. ISSN 1065-7452.

**Anonymous:1994:VSC**

[Ano94b] Anonymous. Visualization in scientific computing: Uses in university education. IFIP WG3.2 Working Conference. *IFIP Transactions. A. Computer Science and Technology*, A-??(????):??, ???? 1994. CODEN ITATEC. ISSN 0926-5473.

**Anonymous:1995:ICI**

[Ano95a] Anonymous, editor. *11th International Conference on Interactive Information and Processing Systems for Meteorology, Oceanography, and Hydrology: January 15–20, 1995, Dallas, Texas*, International conference on interactive information and processing systems for meteorology oceanography and hydrology. American Meteorological Society, Boston, MA, USA, 1995.

**Anonymous:1995:NSN**

[Ano95b] Anonymous, editor. *The Next Step: Ninth Annual Symposium on Geographic Information Systems in Natural Resources Management, March 27–30, 1995, Vancouver, British Columbia, Canada. Symposium Proceedings.* GIS World, Fort Collins, CO, USA, 1995. ISBN 1-882610-15-6. Two volumes.

**Allebach:1993:PSS**

[AR93] J. P. Allebach and B. E. Rogowitz, editors. *Proceedings of the SPIE/SPSE Symposium on Electronic Imaging*, number 1913 in Proceedings — SPIE, The International

Society for Optical Engineering. Society of Photo-optical Instrumentation Engineers (SPIE), Bellingham, WA, USA, February 1993. ISBN 0-8194-1146-9. ISSN 0361-0748. LCCN ????

**Abram:1995:EDAb**

[AT95a] G. Abram and L. A. Treinish. An extended data-flow architecture for data analysis and visualization. In Nielson and Silver [NS95], pages 263–270, 461. ISBN 0-7803-3127-3, 0-8186-7187-4, 0-7803-3128-1. ISSN 1070-2385. LCCN T385 .I198 1995. IEEE Computer Society Press order number PR07187. IEEE Catalog Number 95CB35835.

**Abram:1995:EDAa**

[AT95b] Greg Abram and Lloyd A. Treinish. An extended data-flow architecture for data analysis and visualization. Research report RC 20001 (88338), IBM T. J. Watson Research Center, Yorktown Heights, NY, USA, February 21, 1995. 15 pp.

**Abram:1995:EDAc**

[AT95c] Greg Abram and Lloyd A. Treinish. An extended data-flow architecture for data analysis and visualization. *Computer Graphics*, 29(2):17–21, May 1995. CODEN CGRADI, CPGPBZ. ISSN 0097-8930 (print), 1558-4569 (electronic).

**Bird:19xx:SMU**

[B+xx] C. L. Bird et al. Scientific methodology using Data Explorer. Report 278, IBM UK Scientific Center, IBM Hursley, Winchester, UK, 19xx. ???? pp.

**Brown:1993:LFS**

[BMN93] L. G. Brown, G. Q. Maguire, Jr., and M. E. Noz. Landmark-based 3D fusion of SPECT and CT images. In Schenker [Sch93], pages 166–175 (or 166–174??). ISBN 0-8194-1324-0. ISSN 0361-0748. LCCN TS510.S63 v.2059. Sensor Fusion VI.

**Bowie:1995:DVM**

[BO95] Jack E. Bowie and Arthur J. Olson, editors. *Data Visualization in Molecular Science: Tools for Insight and Innovation*. Addison-Wesley, Reading, MA, USA, 1995. ISBN 0-201-58157-4. xviii + 285 pp. LCCN QD461 .D22 1995. Contents: Introduction — Application visualization system — Quantum chemistry visualization using the AVS Chemistry Viewer — Visualizing enzyme electrostatics with IBM Visualization Data Explorer — Interactive visualization of molecular scenarios with MOLCAD/SYBYL — Molecular surface comparison using Anaconda — Visualization approaches in quantum chemistry using UniChem — Visualizing electrostatic interactions with Insight II — Cerius2 molecular modeling software for industrial applications — The CAChe WorkSystem and molecular mechanics: coordination of DBT on MoS2 — Visualization and representation in chemical education using HyperChem — Visualization supplier reference.

**Bergman:1995:RTA**

[BRT95] L. D. Bergman, B. E. Rogowitz, and L. A. Treinish. A rule-based tool for assisting colormap selection. In Nielson and Silver [NS95], pages 118–125, 444. ISBN 0-7803-3127-3, 0-8186-7187-4, 0-7803-3128-1. ISSN 1070-2385. LCCN T385 .I198 1995. IEEE Computer Society Press order number PR07187. IEEE Catalog Number 95CB35835.

**Burton:1993:PFI**

[Bur93] James S. Burton, editor. *Proceedings of the Federal Interagency Workshop on Hydrologic Modeling Demands for the 90's: June 6–9, 1993, Fort Collins, CO, USA*, number 93-4018 in Water-resources investigations report. U.S. Geological Survey, Reston, VA, USA, 1993. ISBN ???? LCCN GB701 .W39 no. 93-4018. PB Reports PB95-186615.

**Barley:1993:MVT**

[BW93] J. J. Barley and D. W. Williams. Modeling and visualization of three dimensional miscible viscous fingering. In Earnshaw and Watson [EW93], pages 261–278. ISBN 0-12-227745-7. LCCN T385 .A68 1993. Proceedings of the British Computer Society Conference on Animation and Scientific Visualization, December 1992.

**Christian:1993:SAL**

[CCT93] C. Christian, R. Cromp, and L. Treinish. Smart access to large scientific datasets. In Supercomputing '93 [Sup93], pages 372–375. ISBN 0-8186-4342-0, 0-8186-4340-4, 0-8186-4341-2 (microfiche). ISSN 1063-9535. LCCN QA76.5 .S894 1993. IEEE Computer Society Press order number 4340-02. IEEE catalog number 93CH3342-3. ACM order number 415932.

**IBM:1993:DEC**

[Com93] *Data Explorer Communiqué Newsletter*, 1(1), April 1993. IBM Corporation, Yorktown Heights, NY, USA.

**Dean:1993:TCC**

[D+93] D. Dean et al. Three-dimensional CT composite reconstruction of sale and Thomas quarry cranial remains. In *Proceedings of Symposium on Image Acquisition, Analysis and Archiving: New Research Directions in Physical Anthropology, 62nd Annual Meeting of the American Association of Physical Anthropologists, April, 1993*, page ?? ????, ????, 1993. ISBN ???? LCCN ???? N. American Journal of Physical Anthropology, Supplement 16:79.

**IEEE:1994:PIC**

[Dat94] *Proceedings, the 10th International Conference on Data Engineering: February 14–18, 1994, Houston, TX, USA*. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, February 1994. ISBN 0-8186-5402-3 (case), 0-8186-5400-7 (paperback), 0-8186-

5401-5 (microfiche). LCCN QA76.9.D3 I5582 1994. IEEE Computer Society Press order number 5400-02. IEEE Catalog Number 94CH3383-7.

**Doerr:1996:UDL**

[DL96] H. M. Doerr and B. R. Land. Using a dataflow language and the World Wide Web for scientific visualization. *Computer Applications in Engineering Education*, 4 (2):161–168, ???? 1996. CODEN CAPEED. ISSN 1061-3773.

**Eichinger:1995:PIL**

[ECSK95] W. Eichinger, N. Collins, R. Sefecka, and Howard Kraye. Program integrates lidar data for display. *Laser Focus World*, 31(10): S15–S17, October 1995. CODEN LFWOE8. ISSN 1043-8092.

**Earnshaw:1993:ASV**

[EW93] R. A. Earnshaw and D. Watson, editors. *Animation and scientific visualization: tools and applications*. Academic Press, New York, NY, USA, 1993. ISBN 0-12-227745-7. LCCN T385 .A68 1993. Proceedings of the British Computer Society Conference on Animation and Scientific Visualization, December 1992.

**Foster:1994:REK**

[F+94] M. Foster et al. RCWP expert, a knowledge and GIS based system for selection, evaluation, and design of water quality control practices in agricultural watersheds. In *Proceedings GRASS User's Conference, March 1994*, page ?? ????, ????, 1994.

**Finsterwalder:1996:AFI**

[FG96] R. Finsterwalder and G. Grubel. The ANDECS framework for integrating dynamics modeling, simulation and CACSD tools in interactive loops. In IEE [IEE96], pages 3/1–3/2.

**Ford:1994:MSS**

[FRN94] R. Ford, S. Running, and R. Nemani. A modular system for scalable ecological modeling. In *IEEE C325I Sciences & Engineering, 1, Fall, 1994*, pages 32–44. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1994.

**Franklin:1994:UEU**

[FSW94] S. D. Franklin, A. R. Stubberud, and L. P. Wiedeman, editors. *University education uses of visualization in scientific computing: proceedings of the IFIP WG 3.2 Working Conference on Visualization in Scientific Computing, Uses in University Education, Irvine, CA, USA*, number A-48 in IFIP Transactions. A, Computer Science and Technology. North-Holland Publishing Co., Amsterdam, The Netherlands, July 1994. ISBN 0-444-81543-0. ISSN 0926-5473. LCCN T385 .I194 1993.

**Ford:1995:DIB**

[FTD95] R. Ford, D. Thompson, and T. Duce. Data interchange between GIS and visualization environments. In Anonymous [Ano95b], pages 1011–1015 (vol.

2). ISBN 1-882610-15-6. Two volumes.

**Garcia:1992:PVS**

[GPT92] Armando Garcia, Abraham Peled, and Lloyd A. Treinish. The power visualization system, 1992. 1 videocassette (50 min.).

**Gillilan:1995:VEE**

[GR95] R. E. Gillilan and D. R. Ripoll. Visualizing enzyme electrostatics visualization Data Explorer. In Bowie and Olson [BO95], chapter 3, page ?? ISBN 0-201-58157-4. LCCN QD461 .D22 1995. Contents: Introduction — Application visualization system — Quantum chemistry visualization using the AVS Chemistry Viewer — Visualizing enzyme electrostatics with IBM Visualization Data Explorer — Interactive visualization of molecular scenarios with MOLCAD/SYBYL — Molecular surface comparison using Anaconda — Visualization approaches in quantum chemistry using UniChem — Visualizing electrostatic interactions with Insight II — Cerius2 molecular modeling software for industrial applications — The CAChe WorkSystem and molecular mechanics: coordination of DBT on MoS2 — Visualization and representation in chemical education using HyperChem — Visualization supplier reference.

**Gillilan:1995:VVR**

[GW95] Richard E. Gillilan and Frank Wood. Visualization, virtual reality, and animation with the data flow model of computing. *Computer Graphics*, 29 (2):55–58, May 1995. CODEN CGRADI, CPGPBZ. ISSN 0097-8930 (print), 1558-4569 (electronic).

**Haber:1991:DMS**

[H+91] R. Haber et al. A data model for scientific visualization with provisions for regular and irregular grids. In Nielson and Rosenblum [NR91], pages 298–305. ISBN 0-8186-2245-8 (paper), 0-8186-2247-4 (case), 0-8186-2246-6 (microfiche), 0-8186-2245-8 (paperback). LCCN T385 .I192 1991. IEEE Computer Society Press order number 2245. IEEE catalog number 91CH3046-0.

**Halatsis:1994:PPA**

[Hal94] C. Halatsis, editor. *PARLE '94: parallel architectures and languages Europe: 6th International PARLE Conference, Athens, Greece, July 4–8, 1994: proceedings*, volume 817 of *Lecture Notes in Computer Science*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1994. CODEN LNCSD9. ISBN 3-540-58184-7 (Berlin), 0-387-58184-7 (New York). ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN QA76.58 .I564 1994.

**Haus:1993:VRS**

[Hau93] J. Haus. Visualization of real and simulated data in physical oceanography. In Earnshaw and Watson [EW93], pages 225–236.

ISBN 0-12-227745-7. LCCN T385 .A68 1993. Proceedings of the British Computer Society Conference on Animation and Scientific Visualization, December 1992.

**Heasley:1994:SCW**

[Hea94] Cynthia Heasley, editor. *Science and A Changing World: Proceedings of AAAS '94. (The 160th National Meeting of American Association for the Advancement of Science), San Francisco, February 18–23, 1994*, number 94-04S in AAAS Publications. American Association for the Advancement of Science, Washington, DC, USA, February 1994. ISBN ???? LCCN ????

**Hay:1993:VTH**

[HK93] L. Hay and L. Knapp. Visualization techniques for hydrologic modeling. In Burton [Bur93], pages 3–1–3–8. ISBN ???? LCCN GB701 .W39 no. 93-4018. PB Reports PB95-186615.

**Hackstadt:1994:NGP**

[HM94] S. T. Hackstadt and A. D. Malony. Next-generation parallel performance visualization: A prototyping environment for visualization development. In Halatsis [Hal94], pages 192–201. CODEN LNCSD9. ISBN 3-540-58184-7 (Berlin), 0-387-58184-7 (New York). ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN QA76.58 .I564 1994. URL `http://www.cs.uoregon.edu/~hacks/research/publications.html`. Also, University or Oregon, Deopt. of Computer and Information Science, Technical Report CIS-TR-23, October 1993.

**Hackstadt:1995:CSA**

[HM95a] S. T. Hackstadt and A. D. Malony. Case study: applying scientific visualization to parallel performance visualization. *Proceedings of the SPIE — The International Society for Optical Engineering*, 2410:238–247, 1995. CODEN PSISDG. ISSN 0277-786X (print), 1996-756X (electronic).

**Hackstadt:1995:VBV**

[HM95b] Steven T. Hackstadt and Allen D. Malony. Visualization blackboard: Visualizing parallel programs and performance. *IEEE Computer Graphics and Applications*, 15(4):12–14, July 1995. CODEN ICGADZ. ISSN 0272-1716 (print), 1558-1756 (electronic).

**Hackstadt:1994:SPV**

[HMM94] S. T. Hackstadt, A. D. Malony, and B. Mohr. Scalable performance visualization for data-parallel programs. In SHPCC '94 [SHP94], pages 342–349. ISBN 0-8186-5680-8 (paper), 0-8186-5681-6 (microfiche). LCCN QA76.5 .S244 1994. URL `http://www.cs.uoregon.edu/~hacks/research/publications.html`. Also, University of Oregon, Dept of Computer and Information Science, Technical Report CIS-TR-94-09, March, 1994.

**Heath:1995:VDP**

[HMR95] Michael T. Heath, Allen D. Malony, and Diane T. Rover. The visual display of parallel performance data. *Computer*, 28(11): 21–28, November 1995.

**Hostetter:1994:GCS**

[Hos94] Carl F. Hostetter, editor. *1994 Goddard Conference on Space Applications of Artificial Intelligence: proceedings of a conference held at NASA Goddard Space Flight Center, Greenbelt, Maryland, May 10–12, 1993 [i.e. 1994]*, number 3268 in NASA Conference Publication. National Aeronautics and Space Administration, Washington, DC, USA, May 1994. ISSN 0191-7811. LCCN TL 787 G62 1994.

**Haines:2000:VCB**

[HPM+00] K. G. Haines, B. A. Pearlmutier, J. A. Moya, K. Edlund, and T. P. Caudell. Visualizing communication between neurons in the lamina ganglionaris of *Musca domestica*. In S.-I. Amari, C. L. Giles, M. Gori, and V. Piuri, editors, *International Joint Conference on Neural Networks, 2000. IJCNN 2000, Proceedings of the IEEE-INNS-ENNS, 24–27 July 2000*, volume 3, pages 53–58. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 2000. ISBN 0-7695-0619-4. LCCN QA76.5 .I558 2000; QA76.87.I57 2000.

**IBM:1993:IVDa**

[IBM93a] IBM Corporation, Yorktown Heights, NY, USA. *IBM visualization Data Explorer*, third edition, February 1993. various pp.

**IBM:1993:IVDb**

[IBM93b] IBM Corporation, Yorktown Heights, NY, USA. *IBM visualization Data Explorer*, fourth edition, October 1993. various pp.

**IEE:1996:ICA**

[IEE96] IEE, editor. *IEE Colloquium on Advances in Computer-Aided Control System Design (Digest)*, volume 96. IEE, London, UK, 1996.

**Kalvin:1992:VAR**

[K+92] A. Kalvin et al. Visualization in anthropology: Reconstruction of human fossils from multiple pieces. In Kaufman and Nielson [KN92a], pages 404–409. ISBN 0-8186-2897-9 (case), 0-8186-2896-0 (microfiche), 0-8186-2897-9. LCCN T385 .I192 1992. IEEE Computer Society Press order number 2897. IEEE catalog no. 92CH3201-1.

**King:1995:ATV**

[KCWG95] B. King, P. Collins, E. Wolanski, and D. Galloway. Animation techniques for visualizing coastal flow dynamics. In Spaulding and Cheng [SC95], pages 192–203. ISBN 0-7844-0165-9. LCCN GC96.5 .E772 1996.

**Kalvin:1995:RHF**

[KDH95] Alan D. Kalvin, David Dean, and Jean-Jacques Hublin. Reconstruction of human fossils. *IEEE Computer Graphics and Applications*, 15(1):12–15, January 1995. CODEN ICGADZ. ISSN 0272-1716 (print), 1558-1756 (electronic).

**Kalvin:1994:VRR**

[KDHB94] Alan Kalvin, David Dean, Jean-Jacques Hublin, and Marc Braun. Virtual reality reconstruction of early homo sapiens fossils from morocco. In Heasley [Hea94], pages 152–?? ISBN ???? LCCN ???? Abstract number 355.

**King:1996:FVR**

[KG96] E. King and Richard Gillilan. The frontiers of virtual reality and visualization in biochemical research. *Scientific Computing & Automation*, 8:20–22, July 1996. CODEN SCOAEG. ISSN 0891-9003.

**Kelly:1993:JMF**

[KL93] Gary G. Kelly and Anthony J. Lewis, editors. *Joint meeting — February 1993, New Orleans, LA*, number 1 in ACSM ASPRS Annual Convention. American Congress on Surveying and Mapping. American Society for Photogrammetry and Remote Sensing, Falls Church, VA, USA, February 1993. ISBN 0-944426-93-X (set), 0-944426-94-8 (vol. 1), 0-944426-95-6 (vol. 2), 0-944426-96-4 (vol. 3). LCCN ???? Three volumes. Vol. 1: ACSM technical papers / Gary G. Kelly, editor; Vol. 2: ASPRS technical papers, remote sensing / Anthony J. Lewis, editor; Vol. 3: ASPRS technical papers, GIS, photogrammetry and modeling / Anthony J. Lewis, editor.

**Kaufman:1992:VPO**

[KN92a] Arie E. Kaufman and Gregory M. Nielson, editors. *Visualization '92: proceedings, October 19–23, 1992 Boston, MA, USA*. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1992. ISBN 0-8186-2897-9 (case), 0-8186-2896-0 (microfiche), 0-8186-2897-9. LCCN T385 .I192 1992. IEEE Computer Society Press order number 2897. IEEE catalog no. 92CH3201-1.

**Kaufman:1992:SVR**

[KN92b] Arie E. Kaufman and Gregory M. Nielson, editors. *Visualization '92: proceedings, October 19–23, 1992, Boston, Massachusetts.* IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1992. ISBN 0-8186-2897-9. LCCN T385 .I192 1992. IEEE catalog number 92CH3201-1.

**Knapp:1993:TAG**

[Kna93] L. Knapp. Task analysis and geographic visualization. In Kelly and Lewis [KL93], pages 190–199. ISBN 0-944426-93-X (set), 0-944426-94-8 (vol. 1), 0-944426-95-6 (vol. 2), 0-944426-96-4 (vol. 3). LCCN ???? Three volumes. Vol. 1: ACSM technical papers / Gary G. Kelly, editor; Vol. 2: ASPRS technical papers, remote sensing / Anthony J. Lewis, editor; Vol. 3: ASPRS technical papers, GIS, photogrammetry and modeling / Anthony J. Lewis, editor.

**Knapp:1994:TAA**

[Kna94] L. Knapp. A task analysis approach to visualization of geographic data. In Nyerges et al. [N+94], pages 355–372. ISBN 0-7923-3595-3. LCCN G70.2.C63 1995.

**Lucus:1992:ASV**

[L+92] B. Lucus et al. An architecture for a scientific visualization system. In Kaufman and Nielson [KN92a], pages 107–113. ISBN 0-8186-2897-9 (case), 0-8186-2896-0 (microfiche), 0-8186-2897-9. LCCN T385 .I192 1992. IEEE Computer Society Press order number 2897. IEEE catalog no. 92CH3201-1.

**Lucas:1992:ASV**

[LAC+92] B. Lucas, G. D. Abram, N. S. Collins, D. A. Epstein, D. L. Gresh, and K. P. McAuliffe. An architecture for a scientific visualization system. In Kaufman and Nielson [KN92b], pages 107–114. ISBN 0-8186-2897-9. LCCN T385 .I192 1992. IEEE catalog number 92CH3201-1.

**Land:1994:TCG**

[Lan94] B. R. Land. Teaching computer graphics and scientific visualization using the dataflow, block diagram language Data Explorer. In Franklin et al. [FSW94], pages 33–36. ISBN 0-444-81543-0. ISSN 0926-5473. LCCN T385 .I194 1993.

**Liddell:1996:HCN**

[LCHS96] Heather Mary Liddell, A. Colbrook, B. Hertzberger, and P. Sloot, editors. *High-performance computing and networking: international conference and exhibition, HPCN EUROPE 1966, Brussels, Belgium, April 15–19, 1996: proceedings*, volume 1067 of *Lecture Notes in Computer Science*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1996. ISBN 3-540-61142-8 (paperback). ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN QA76.88 .H52 1996.

**Land:1993:SVC**

[LG93] B. R. Land and R. E. Gillilan. Scientific visualization of chemical systems. In Supercomputing '93 [Sup93], pages 296–300. ISBN 0-8186-4342-0, 0-8186-4340-4, 0-8186-4341-2 (microfiche). ISSN 1063-9535. LCCN QA76.5 .S894 1993. IEEE Computer Society Press order number 4340-02. IEEE catalog number 93CH3342-3. ACM order number 415932.

**Larkin:1996:VLS**

[LGH96] S. Larkin, A. J. Grant, and W. T. Hewitt. "Vipar" libraries to support distribution and processing of visualization datasets. In Liddell et al. [LCHS96], pages 711–721. ISBN 3-540-61142-8 (paperback). ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN QA76.88 .H52 1996.

**Lee:1995:MRE**

[LNH+95] K. Lee, Jun Ni, T. Halverson, E. van Wyk, and J. R. Brown. Is an MVE the right environment for your visualization application? *Computer Graphics*, 29(2):49–51, May 1995. CODEN CGRADI. ISSN 0097-8930 (print), 1558-4569 (electronic).

**Lucas:1992:SVR**

[Luc92] B. Lucas. A scientific visualization renderer. In Kaufman and Nielson [KN92a], pages 227–234. ISBN 0-8186-2897-9 (case), 0-8186-2896-0 (microfiche), 0-8186-2897-9. LCCN T385 .I192 1992. IEEE Computer Society Press order number 2897. IEEE catalog no. 92CH3201-1.

**Ma:1998:SVD**

[MJS98] H. Ma, K. W. Jones, and E. A. Stern. Scientific visualization and data modeling of scattered sediment contaminant data in New York/New Jersey estuaries. In D. Ebert, H. Rushmeier, and H. Hagen, editors, *Proceedings: Visualization '98, 18–23 October 1998*, pages 67–470, 569. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1998. ISBN 0-8186-9176-X. LCCN T385 .I42 1998. IEEE catalog number 98CB36276.

**Nyerges:1994:CAH**

[N+94] Timothy L. Nyerges et al., editors. *Cognitive aspects of human-computer interaction for geographic information systems: NATO Advanced research workshop — March 20–25, 1994, Palma de Mallorca, Spain*, number 83 in NATO ASI Series D Behavioural and Social Sciences. Kluwer Academic Publishers Group, Norwell, MA, USA, and Dordrecht, The Netherlands, March 1994. ISBN 0-7923-3595-3. LCCN G70.2.C63 1995.

**Nielson:1993:VAC**

[NB93] Gregory M. Nielson and Dan Bergeron, editors. *Visualization '93: proceedings, October 25–29, 1993, San Jose, CA, USA*. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, October 1993. ISBN 0-8186-3942-3 (case), 0-8186-3940-7 (paper), 0-8186-3941-5 (microfiche). ISSN 1070-2385. LCCN T385 .I192 1993.

**Nielson:1991:VPO**

[NR91] Gregory M. Nielson and Lawrence J. Rosenblum, editors. *Visualization '91: proceedings, October 22–25, 1991, San Diego, CA, USA*. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, October 1991. ISBN 0-8186-2245-8 (paper), 0-8186-2247-4 (case), 0-8186-2246-6 (microfiche), 0-8186-2245-8 (paperback). LCCN T385 .I192 1991. IEEE Computer Society Press order number 2245. IEEE catalog number 91CH3046-0.

**Nielson:1995:VPO**

[NS95] Gregory M. Nielson and Deborah E. Silver, editors. *Visualization '95 proceedings, October 29–November 3, 1995, Atlanta, GA, USA*. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, October 1995. ISBN 0-7803-3127-3, 0-8186-7187-4, 0-7803-3128-1. ISSN 1070-2385. LCCN T385 .I198 1995. IEEE Computer Society Press order number PR07187. IEEE Catalog Number 95CB35835.

**OConnor:1994:VAC**

[OS94] Lisa O'Connor and Penny Storms, editors. *Visualization '94: proceedings, October 17–21, 1994, Washington, DC, USA*. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, October 1994. ISBN 0-8186-6627-7 (case), 0-8186-6626-9 (microfiche). ISSN 1070-2385. LCCN T385 .I192 1994. Fifth Annual IEEE Conference on Visualization. IEEE catalog number 94CH35707.

**PhillipsMahoney:1996:ASM**

[Phi96] Diana Phillips Mahoney. The art and science of medical visualization — in conjunction with dramatic advances in scanning technologies, computer-aided visualization tools are. *Computer Graphics World*, 19(7):25–??, July 1996. CODEN CGWODH. ISSN 0271-4159.

**Pickover:1994:APG**

[Pic94] C. A. Pickover. Automatic parallel generation of Aeolian fractals on the IBM Power Visualization System. *Computers and Graphics*, 18(3):407–416, May–June 1994. CODEN COGRD2. ISSN 0097-8493 (print), 1873-7684 (electronic).

**Paddeu:1995:CMG**

[PMA+95] G. Paddeu, D. H. Mosley, J.-M. Andre, J. G. Fripiat, and D. P. Vercauteren. Computer-aided molecular graphics for the interpretation of electronic structure calculations on polymers. In Scateni [Sca95], pages 79–91. ISBN 981-02-2461-3. LCCN Q174.S337 1995.

**Ribarsky:1992:ODV**

[R+92] W. Ribarsky et al. Object-oriented, dataflow visualization systems — A paradigm shift? In Kaufman and Nielson [KN92a], pages 384–387. ISBN 0-8186-2897-9 (case), 0-8186-2896-0 (microfiche), 0-8186-2897-9. LCCN T385 .I192 1992. IEEE Computer Society Press order number 2897. IEEE catalog no. 92CH3201-1.

**Rogowitz:1994:HVV**

[RA94] Bernice E. Rogowitz and Jan P. Allebach, editors. *Human vision, visual processing, and digital display V: 8–10 February 1994, San Jose, California*, number 2179 in Proceedings — SPIE, The International Society for Optical Engineering. Society of Photo-optical Instrumentation Engineers (SPIE), Bellingham, WA, USA, February 1994. ISBN 0-8194-1474-3. LCCN ???? Proceedings of a conference held

February, 1994, in San Jose, CA, USA.

**Ribarsky:1992:POD**

[RBM+92] W. Ribarsky, B. Brown, T. Myerson, S. Smith, and L. Treinish. Panel on object-oriented, dataflow visualization systems – A paradigm shift? In Kaufman and Nielson [KN92a], pages 384–387. ISBN 0-8186-2897-9 (case), 0-8186-2896-0 (microfiche), 0-8186-2897-9. LCCN T385 .I192 1992. IEEE Computer Society Press order number 2897. IEEE catalog no. 92CH3201-1.

**Rhyne:1992:CSV**

[RBP+92] T.-M. Rhyne, M. Botts, E. Pepke, W. Hibbard, and L. A. Treinish. Case study on visualization requirements in the atmospheric and environmental sciences. In Kaufman and Nielson [KN92a], page ?? ISBN 0-8186-2897-9 (case), 0-8186-2896-0 (microfiche), 0-8186-2897-9. LCCN T385 .I192 1992. IEEE Computer Society Press order number 2897. IEEE catalog no. 92CH3201-1.

**Rogowitz:1993:ARVb**

[RT93a] B. E. Rogowitz and L. A. Treinish. An architecture for rule-based visualization. In Nielson and Bergeron [NB93], pages 236–243 (or 236–244??). ISBN 0-8186-3942-3 (case), 0-8186-3940-7 (paper), 0-8186-3941-5 (microfiche). ISSN 1070-2385. LCCN T385 .I192 1993.

**Rogowitz:1993:APR**

[RT93b] Bernice E. Rogowitz and Lloyd A. Treinish. An architecture for perceptual rule-based visualization. In Nielson and Bergeron [NB93], pages 236–243. ISBN 0-8186-3942-3 (case), 0-8186-3940-7 (paper), 0-8186-3941-5 (microfiche). ISSN 1070-2385. LCCN T385 .I192 1993.

**Rogowitz:1993:DSP**

[RT93c] Bernice E. Rogowitz and Lloyd A. Treinish. Data structures and perceptual structures. In Allebach and Rogowitz [AR93], pages 600–612. ISBN 0-8194-1146-9. ISSN 0361-0748. LCCN ????

**Rogowitz:1993:ARVa**

[RT93d] Bernice Ellen Rogowitz and Lloyd A. Treinish. An architecture for rule-based visualization. Research report RC 19196 (83625), IBM T. J. Watson Research Center, Yorktown Heights, NY, USA, October 4, 1993. 14 pp.

**Rogowitz:1994:UPR**

[RT94] Bernice E. Rogowitz and Lloyd A. Treinish. Using perceptual rules in interactive visualization. In Rogowitz and Allebach [RA94], pages 287–297. ISBN 0-8194-1474-3. LCCN ???? Proceedings of a conference held February, 1994, in San Jose, CA, USA.

**Rogowitz:1996:PVH**

[RT96] Bernice E. Rogowitz and Lloyd A. Treinish. PRACTICAL VISUALIZATION: How not to lie with visualization. *Computers in*

*Physics*, 10(3):268–??, May 1996. CODEN CPHYE2. ISSN 0894-1866 (print), 1558-4208 (electronic).

**Rogowitz:1998:DVE**

[RT98] B. E. Rogowitz and L. A. Treinish. Data visualization: the end of the rainbow. *IEEE Spectrum*, 35(12): 52–59, December 1998. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

**Safran:1994:SAS**

[Saf94] Charles Safran, editor. *Seventeenth Annual Symposium on Computer Applications in Medical Care. Patient-Centered Computing*. McGraw-Hill, New York, NY, USA, 1994. ISBN 0-07-001502-3. LCCN W3 SY5074K 1993.

**Stiles:1994:ACW**

[SB94] Joel Stiles and Thomas Bartol, Jr. About the cover: Walking randomly in a synapse. *IEEE Computational Science & Engineering*, 1(3):4–5, Fall 1994. CODEN ISCEE4. ISSN 1070-9924 (print), 1558-190X (electronic).

**Spaulding:1995:ECM**

[SC95] Malcolm L. Spaulding and Ralph T. Cheng, editors. *Estuarine and coastal modeling: proceedings of the 4th international conference: October 26–28, 1995, San Diego, California*. American Society of Civil Engineers, New York, NY, USA, 1995. ISBN 0-7844-0165-9. LCCN GC96.5 .E772 1996.

**Scateni:1995:SVP**

[Sca95] Riccardo Scateni, editor. *Scientific Visualization '95: proceedings of the International Symposium, Cagliari, Italy, 27–29 September, 1995*. World Scientific Publishing Co., Singapore; Philadelphia, PA, USA; River Edge, NJ, USA, 1995. ISBN 981-02-2461-3. LCCN Q174.S337 1995.

**Schenker:1993:SFV**

[Sch93] Paul S. Schenker, editor. *Sensor fusion VI: 7–8 September 1993, Boston, MA, USA*, number 2059 in Proceedings SPIE: The International Society For Optical Engineering. Society of Photo-optical Instrumentation Engineers (SPIE), Bellingham, WA, USA, September 1993. ISBN 0-8194-1324-0. ISSN 0361-0748. LCCN TS510.S63 v.2059.

**IEEE:1994:PSH**

[SHP94] *Proceedings of the Scalable High-Performance Computing Conference, May 23–25, 1994, Knoxville, TN, USA*. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, May 1994. ISBN 0-8186-5680-8 (paper), 0-8186-5681-6 (microfiche). LCCN QA76.5 .S244 1994. IEEE catalog number 94TH0637-9.

**Song:1995:HVT**

[SN95] Deyang Song and M. Norman. 4d2 — a high-performance visualization tool for CFD and particle data visualization. *Proceed-*

*ings of the SPIE — The International Society for Optical Engineering*, 2410:139–146, 1995. CODEN PSISDG. ISSN 0277-786X (print), 1996-756X (electronic).

**IEEE:1993:SCN**

[Sup93] *Proceedings, Supercomputing '93: Portland, Oregon, November 15–19, 1993*. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1993. ISBN 0-8186-4342-0, 0-8186-4340-4, 0-8186-4341-2 (microfiche). ISSN 1063-9535. LCCN QA76.5 .S894 1993. IEEE Computer Society Press order number 4340-02. IEEE catalog number 93CH3342-3. ACM order number 415932.

**Treinish:1996:VBW**

[TC96] L. A. Treinish and Z. D. Christidis. Visualization blackboard: Weather forecasting for the 1996 Olympics. *IEEE Computer Graphics and Applications*, 16(4): 10–13, July 1996. CODEN ICGADZ. ISSN 0272-1716 (print), 1558-1756 (electronic).

**Treinish:1991:CVT**

[TG91] L. A. Treinish and C. Goettsche. Correlative visualization techniques for multidimensional data. *IBM Journal of Research and Development*, 35(1/2):184–204, January/March 1991. CODEN IBMJAE. ISSN 0018-8646 (print), 2151-8556 (electronic).

**Treinish:1993:DMS**

[TKFG93] L. Treinish, R. Kulkarni, M. Folk, and G. Goucher. Data models, structures, and access software for scientific visualization. In Nielson and Bergeron [NB93], pages 355–361. ISBN 0-8186-3942-3 (case), 0-8186-3940-7 (paper), 0-8186-3941-5 (microfiche). ISSN 1070-2385. LCCN T385 .I192 1993.

**Treinish:1992:CDA**

[Tre92a] L. A. Treinish. Correlative data analysis in the earth sciences. *IEEE Computer Graphics and Applications*, 13(3):10–12, May 1992. CODEN ICGADZ. ISSN 0272-1716 (print), 1558-1756 (electronic).

**Treinish:1992:PIV**

[Tre92b] Lloyd A. Treinish. Climatology of global stratospheric ozone (1979 through 1991). In *Proceedings IEEE Visualization '92, video supplement*, page ?? IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, October 1992. ISBN ???? LCCN ????

**Treinish:1992:DMM**

[Tre92c] Lloyd A. Treinish. Data management methods for scientific visualization. Research report RC 18315 (80219), IBM T. J. Watson Research Center, Yorktown Heights, NY, USA, September 9, 1992. 26 pp.

**Treinish:1993:UPD**

[Tre93a] L. A. Treinish. Unifying principles of data management for scientific visualization. In Earnshaw and Watson [EW93], pages 141–169.

ISBN 0-12-227745-7. LCCN T385 .A68 1993. Proceedings of the British Computer Society Conference on Animation and Scientific Visualization, December 1992.

**Treinish:1993:VSO**

[Tre93b] L. A. Treinish. Visualization of stratospheric ozone depletion and the polar vortex. In Nielson and Bergeron [NB93], pages 391–396. ISBN 0-8186-3942-3 (case), 0-8186-3940-7 (paper), 0-8186-3941-5 (microfiche). ISSN 1070-2385. LCCN T385 .I192 1993.

**Treinish:1993:VTC**

[Tre93c] L. A. Treinish. Visualization techniques for correlative data analysis in the earth and space sciences. In Earnshaw and Watson [EW93], pages 193–204. ISBN 0-12-227745-7. LCCN T385 .A68 1993. Proceedings of the British Computer Society Conference on Animation and Scientific Visualization, December 1992.

**Treinish:1993:BLD**

[Tre93d] Lloyd A. Treinish. Browsing large data archives: Visualization for data management. Ibm research internal report, IBM Corporation, Yorktown Heights, NY, USA, March 1993. ???? pp.

**Treinish:1993:CGS**

[Tre93e] Lloyd A. Treinish. Climatology of global stratospheric ozone (1979 through 1991). *ACM SIGGRAPH Video Review*, 93:??, August 1993.

**Treinish:1993:CVE**

[Tre93f] Lloyd A. Treinish. Correlative visualization in the earth and space sciences. In Earnshaw and Watson [EW93], pages 193–204. ISBN 0-12-227745-7. LCCN T385 .A68 1993. Proceedings of the British Computer Society Conference on Animation and Scientific Visualization, December 1992.

**Treinish:1993:IMD**

[Tre93g] Lloyd A. Treinish. Inside multidimensional data. *Byte Magazine*, 18(4):??, April 1993. CODEN BYTEDJ. ISSN 0360-5280 (print), 1082-7838 (electronic).

**Treinish:1993:VAE**

[Tre93h] Lloyd A. Treinish. Visualization and analysis of environmental data. In *Visualization '93 Course #2: The Process of Visualizing Environmental Data Sets*, page ?? ????, ????, October 1993. ISBN ???? LCCN ????

**Treinish:1993:VAG**

[Tre93i] Lloyd A. Treinish. Visualization and analysis of global data. In *ACM SIGGRAPH '93 Course #71: Visualizing Planet Earth*, page ?? ????, ????, August 1993. ISBN ???? LCCN ????

**Treinish:1994:IASb**

[Tre94a] L. A. Treinish. Interactive archives of scientific data. In Hostetter [Hos94], pages 3–16. ISSN 0191-7811. LCCN TL 787 G62 1994.

**Treinish:1994:IASc**

[Tre94b] L. A. Treinish. Interactive archives of scientific data. *Telematics and Informatics*, 11(4): 333–??, November 1994. CODEN TEINEG. ISSN 0736-5853 (print), 1879-324X (electronic).

**Treinish:1994:SRE**

[Tre94c] L. A. Treinish. Severe rainfall events in northwestern peru: Visualization of scattered meteorological data. In O'Connor and Storms [OS94], pages 350–354. ISBN 0-8186-6627-7 (case), 0-8186-6626-9 (microfiche). ISSN 1070-2385. LCCN T385 .I192 1994. Fifth Annual IEEE Conference on Visualization. IEEE catalog number 94CH35707.

**Treinish:1994:VSMb**

[Tre94d] L. A. Treinish. Severe rainfall events in northwestern peru: Visualization of scattered meteorological data. In O'Connor and Storms [OS94], pages 350–354. ISBN 0-8186-6627-7 (case), 0-8186-6626-9 (microfiche). ISSN 1070-2385. LCCN T385 .I192 1994. Fifth Annual IEEE Conference on Visualization. IEEE catalog number 94CH35707.

**Treinish:1994:IASa**

[Tre94e] Lloyd A. Treinish. Interactive archives of scientific data. Research report RC 19539 (84992), IBM T. J. Watson Research Center, Yorktown Heights, NY, USA, April 28, 1994. 13 pp.

**Treinish:1994:STD**

[Tre94f] Lloyd A. Treinish. Solutions and techniques for data management, visual display and examination of large scientific data sets. global ozone distribution. In *ACM SIGGRAPH '94 Course #27: Visualizing and Examining Large Scientific Data Sets – A Focus on the Physical and Natural Sciences*, page ?? ACM Press, New York, NY 10036, USA, 1994. ISBN ???? LCCN ????

**Treinish:1994:VSMa**

[Tre94g] Lloyd A. Treinish. Visualization of scattered meteorological data: study of severe rainfall events in northwestern peru. Research report RC 19537 (84985), IBM T. J. Watson Research Center, Yorktown Heights, NY, USA, March 1994. 6 + 2 pp.

**Treinish:1994:VSO**

[Tre94h] Lloyd A. Treinish. Visualization of stratospheric ozone and atmospheric dynamics (1991). *ACM SIGGRAPH Video Review*, 105: ??, July 1994.

**Treinish:1994:VID**

[Tre94i] Lloyd A. Treinish. Visualizations illuminate disparate data sets in the earth sciences. *Computers in Physics*, 8(6):664–??, November/December 1994. CODEN CPHYE2. ISSN 0894-1866 (print), 1558-4208 (electronic).

**Treinish:1995:GAA**

[Tre95a] L. A. Treinish. A generalized approach to analysis and visualization of atmospheric, earth and environmental sciences data. In Anonymous [Ano95a], pages 19–24.

**Treinish:1995:IAE**

[Tre95b] L. A. Treinish. Interactive archives of earth science data. In Anonymous [Ano95a], pages 13–18.

**Treinish:1995:VSM**

[Tre95c] Lloyd A. Treinish. Visualization of scattered meteorological data. *IEEE Computer Graphics and Applications*, 15(4):20–26, July 1995. CODEN ICGADZ. ISSN 0272-1716 (print), 1558-1756 (electronic).

**Watson:1994:IE**

[Wat94] D. Watson. Intrepid Explorer. In *Computer Graphics Development International*, page ?? Comhill Publications Limited, London, UK, 1994. ISBN 1-85938-013-1. LCCN ????

**Watson:19xx:ANE**

[Watxx] D. Watson. Adding non-defined element types to IBM Data Explorer. Report 279, IBM UK Scientific Center, IBM Hursley, Winchester, UK, 19xx. ???? pp.