

CALENDAR

Conferences in which the Computer Society is a sponsor or participant are indicated by the IEEE Computer Society logo; other conferences of interest to our readers are also included. For listing in Calendar, submit information **six weeks before the month of publication**—e.g., for the **July 1982** issue, send information for receipt by **May 15, 1982**—to **COMPUTER**, 10662 Los Vaqueros Circle, Los Alamitos, CA 90720.

May 1982

Canadian Conference on Industrial Computer Systems, May 3-5, Hamilton, Canada. Contact Dr. J. D. Wright, Xerox Research Center of Canada, 2660 Speakman Dr., Mississauga, Ontario L5K2L1, Canada; (416) 823-7091.

☉ **International Workshop on Industrial Applications of Machine Vision, May 3-5**, Raleigh, North Carolina. Contact Dr. J. L. Mundy, General Electric, CRD—PO Box 8, Schenectady, NY 12301.

Eighth Annual Computer Graphics Conference, May 4-6, Detroit, Michigan. Contact Carol Lynn, Engineering Society of Detroit, 100 Farnsworth Ave., Detroit, MI 48202; (313) 832-5400.

14th ACM Symposium on Theory of Computing, May 5-7, San Francisco, California. Contact Barbara Simons, IBM Research, Bldg. K52/282, 5600 Cottle Rd., San Jose, CA 95193.

1982 Annual Independent Computer Consultants Association Conference, May 5-8, Arlington, Virginia. Contact Fran Abernathy, Abernathy Business Consultants, Inc., 414 Hungerford Dr., Suite 358, Rockville, MD 20850; (301) 340-7270.

Application of Optical Instrumentation in Medicine X, May 9-11, New Orleans, Louisiana. Contact SPIE, PO Box 10, Bellingham, WA 98227.

☉ **Phoenix Conference on Computers and Communications, May 9-12**, Phoenix, Arizona. Contact Leroy N. Templeton, Jr., Honeywell, 16404 North Black Canyon Hwy., Phoenix, AZ 85023; (602) 997-3924.

1982 IEEE International Symposium on Circuits and Systems, May 10-12, Rome, Italy. Contact Prof. Ernest S. Kuh, Dept. of Electrical Engineering and Computer Sciences, University of California, Berkeley, CA 94720.

32nd Electronic Components Conference, May 10-12, San Diego, California. Contact D. J. Bendz, IBM Corp., Dept. 649/014-4, 1701 North St., Endicott, NY 13760.

SID 1982 International Symposium, May 11-13, San Diego, California. Contact Ifay Chang, IBM Research Center, Box 218, Yorktown Hgts., NY 10598; (914) 945-1234.

☉ **Workshop on Effectiveness of Program Testing and Proving Methods, May 11-13**, Avalon, California. Contact Dr. William E. Howden, EECS, C-014, University of California at San Diego, La Jolla, CA 92093.

☉ **International Workshop on Time-of-Flight Emission Tomography, May 16-19**, St. Louis, Missouri. Contact Dr. L. H. Thomas, Jr., Washington University, Campus Box 8068, 700 South Euclid Ave., St. Louis, MO 63110; (314) 454-3364.

☉ **Computer Network Protocols, May 17-19**, Gaithersburg, Maryland. Contact Elizabeth Fong, National Bureau of Standards, Bldg. 225, B212, Washington, DC 20234.

Graphics Interface 82, May 17-21, Toronto, Canada. Contact Rich MacKay, DataPlotting Services, 160 Duncan Mills Rd., Don Mills, Ontario, Canada M3B 1Z5; (416) 447-8518.

Control Expo 82, Control Engineering Conference and Exposition, May 18-20, Chicago, Illinois. Contact Tower Conference Management Co., 143 North Hale St., Wheaton, IL 60187.

Northcon (IEEE et al.), May 18-20, Seattle, Washington. Contact Robert Myers, Electronic Conventions, Inc., 999 N. Sepulveda Blvd., El Segundo, CA 90245; (213) 772-2965.

NAFIP-1, First Workshop of the North American Fuzzy Information Processing Group, May 19-20, Logan, Utah. Contact Jim Bezdek, Dept. of Mathematics, UMC-41, Utah State University, Logan, UT 84322.

☉ **Second Annual VLSI Debug and Diagnosis Workshop, May 20-21**, New York, New York. Contact William Rosenbluth, IBM Corp., Fed. Systems Div., 9500 Godwin Dr., Manassas, VA 22110.

Aerospace and Defense Computer Exhibition and Conference, May 24-26, Washington, DC. Contact Technology Training, 5959 W. Century Blvd., Suite 1016, Los Angeles, CA 90045; (213) 645-1921.

International Workshop on High-Level Language Computer Architecture, May 24-28, Ft. Lauderdale, Florida. (Tutorials: May 24-25; Workshop: May 26-28.) Contact Dr. Yaohan Chu, Dept. of Computer Science, University of Maryland, College Park, MD 20742; (301) 454-4245.

Electro 82 Show and Convention (IEEE et al.), May 25-27, Boston, Massachusetts. Contact Robert Myers, Electronic Conventions, Inc., 999 N. Sepulveda Blvd., El Segundo, CA 90245; (213) 772-2965.

Europe Software 1981 Trade Fair, US Software Exhibition, May 25-27, Utrecht, Netherlands. Contact John R. Ferchak, US Consulate General, Amsterdam, Netherlands; tele. (20) 790321.

☉ **12th International Symposium on Multiple-Valued Logic, May 25-27**, Paris France. (There is a possibility that a group travel award will become available.) Contact the Symposium Chairman, Michel Israel, IIE-CNAM, 292 Rue Saint-Martin, 75141, Paris Cedex 03, France; tele. (1) 271 24 14, ext. 511; or the Symposium Co-Chairman, Jon C. Muzio, Dept. of Computer Science, University of Manitoba, Winnipeg, Manitoba R3T 2N2, Canada; (204) 474-9740.

☉ **Trends and Applications 1982: Advances in Information Technology, May 27**, Gaithersburg, Maryland. Contact Leon Scharff, ADPESO, Dept. of Navy, Washington, DC 20376; (301) 433-2547.

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families of computers in May 1983. Manuscripts on new user apparent architectures and implementation architectures are solicited. Major focus should be on detailed descriptions of design tradeoffs made and methodology used. Submit papers by **July 1, 1982**, to Fernando C. Colon Osorio, Digital Equipment Corp., 75 Reed Rd., Hudson, MA 01749; (617) 568-1431.

20th Annual Allerton Conference on Communication, Control, and Computing: October 6-8, 1982, Monticello, Illinois. Submit a 1000-word summary for a regular paper or a 500-word summary for a short paper by **July 30, 1982**, to Allerton Conference, c/o Prof. H. V. Poor, Coordinated Science Lab, University of Illinois at Urbana-Champaign, 1101 West Springfield Ave., Urbana, IL 61801.

Fourth Israel Convention and Exhibition on Computer-Aided Design and Manufacturing: December 13-15, 1982, Tel-Aviv, Israel. Submit a 200-word abstract by **August 1, 1982**, to Israel Society for CAD/CAM, PO Box 3473, Tel-Aviv 61033, Israel.

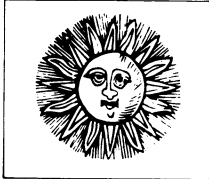
Ⓢ **International Symposium on VLSI Technology Systems and Applications:** March 30-April 1, 1983, Taipei, Taiwan, Republic of China. Submit 12 copies of a detailed abstract for a 30-minute presentation by **September 30, 1982**, to Dr. Hwa-Nien Yu, IBM T. J. Watson Research Center, PO Box 218, Yorktown Hgts., NY 10598; (914) 945-1942.

Sixth International Conference on Digital Satellite Communications: September 19-23, 1983, Phoenix, Arizona. Submit abstracts by **September 30, 1982**, to Howard B. Briley, Conference Administrator, ICDC-6, c/o Comsat, 950 L'Enfant Plaza, S.W., Washington, DC 20024; (202) 863-6248.

ICC 83, 1983 International Conference on Communications (IEEE et al.): June 19-23, 1983, Boston, Massachusetts. Submit four copies of manuscript and a one-page abstract by (authors outside North America) **October 18, 1982** or (North American authors) **November 1, 1982**. Send to appropriate address as determined by region of residence: (Europe, Africa, and Middle East) Dr. F. Tosco, CSELT, Via G. Reiss Romali, 274, 10148 Torino, Italy, tele. (39) 11 21691, ext. 388; (North America) Dr. L. J. Ricardi, MIT Lincoln Laboratory, PO Box 73, Rm. D-422, Lexington, MA 02173, tele. (617) 862-5500, ext. 7331; (Central and South America) Dr. J. Valerdi and Dr. J. Pomalaza, CICESE, PO Box 222, San Ysidro, CA 92073, tele. (714) 398-3803, ext. 201 or 203; (Asia and Oceania) Dr. N. Kuroyanagi, NTT, Musashino Electr. Comm. Lab, 9-11, 3 Chome, Midoricho, Musashino-Shi, Tokyo 180, Japan, tele. (0422) 59-2539.

Ⓢ **13th International Symposium on Multiple-Valued Logic:** May 23-25, 1983, Kyoto, Japan. Send four copies of an original survey, tutorial, or research paper (20-page maximum) and a 50- to 100-word abstract by **November 1, 1982**, to (North and South American authors) K. Wayne Current, Dept. of Electrical Engineering, University of California, Davis, CA 95616; (European authors) Stanley L. Hurst, School of Electrical Engineering, University of Bath, Bath, England BA2 7AY; and (all others) Tatsuo Higuchi, Dept. of Electronic Engineering, Tohoku University, Sendai 980, Japan.

The Journal of Digital Systems will publish a special issue on channel routing in November 1983. Submit papers by **December 1, 1982**, to Dr. Ernest S. Kuh, TE01, EE and Computer Science Dept., University of California, Berkeley, Berkeley, CA 94720.



CALENDAR

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June 1982

Fourth Annual International Symposium on Computers in Critical Care and Pulmonary Medicine, June 2-4, London, England. Contact Prof. J.P. Payne, Symposium Chairman, Royal College of Surgeons of England, 35-43 Lincoln's Inn Fields, London WC 2 A 3PN, England; tele. 01602-3252.

ICCAS 82, 1982 IFIP-IFAC International Conference on Computer Applications in the Automation of Shipyard Operation and Ship Design, June 7-10, Annapolis, Maryland. Contact Prof. David F. Rogers, ICCAS 82 Office, Computer Aided Design/Interactive Graphics Group, Division of Engineering & Weapons, United States Naval Academy, Annapolis, MD 21402; (301) 267-3283.

Ⓢ **National Computer Conference, June 7-10**, Houston, Texas. Contact AFIPS, 1815 N. Lynn St., Arlington, VA 22209.

Sixth IFAC Symposium on System Identification and Parameter Estimation, June 7-11, Washington, DC. Contact George A. Bekey, Dept. of EE, University of Southern California, Los Angeles, CA 90007; (213) 743-2995.

First Afcet Conference on Software Engineering, June 8-10, Paris, France. Contact Afcet, 156 Bd Péreire, F. 75017 Paris, France; tele. 766-24-19.

ICC 82, International Conference on Communications (IEEE et al.), June 13-17, Philadelphia, Pennsylvania. Contact Merrill W. Buckley, Jr., RCA Missile and Surface Radar, Moorestown, NJ 08057; (609) 778-2554.

Ⓢ **Medgraph 82, June 13-17**, Anaheim, California. Contact Larry T. Cook, The University of Kansas, Dept. of Diagnostic Radiology, College of Health Sciences and Hospital, 39th and Rainbow Blvd., Kansas City, KS 66103; (913) 588-6800.

Ⓢ **19th Design Automation Conference, June 14-16**, Las Vegas, Nevada. Contact Design Automation Conference, PO Box 639, Silver Spring, MD 20901; (301) 589-3386.

Ⓢ **PRIP 82, Conference on Pattern Recognition and Image Processing, June 14-17**, Anaheim, California. Contact PRIP, PO Box 639, Silver Spring, MD 20901; (301) 589-3386.

Eurocon 82, Fifth European Conference on Electrotechnics (IEEE et al.), June 14-18, Copenhagen, Denmark. Contact DIEU, Danish Engineers' Post Graduate Institute, The Technical University of Denmark, Bldg. 208, DK-2800 Lyngby, Denmark.

ICISA, International Conference on Information Systems Auditing, June 16-18, Milano, Italy. Contact Giorgio Caldara, Sperry Univac, Via Pola 9, 20124 Milano, Italy.

21st Annual ACM/NBS Technical Symposium, June 17, Gaithersburg, Maryland. Contact J. Stephen Schiavo, Romac & Associates, 1600 Wilson Blvd., Suite 906, Arlington, VA 22209; (703) 525-5160.

American Society for Engineering Education Annual Conference, June 20-24, College Station, Texas. Contact American Society for Engineering Education, Suite 400, One Dupont Circle, Washington, DC 20036.

ACM Sigoa Conference on Office Information Systems, June 21-23, Philadelphia, Pennsylvania. Contact Marylu Buono, 7B-201, Bell Laboratories, 600 Mountain Ave., Murray Hill, NJ 07974; (201) 582-2583.

Workshop on Management and Office Information Systems, June 21-23, Chicago, Illinois. Contact Dr. S. K. Chang, Knowledge Systems Institute, PO Box 41, Glencoe, IL 60022.

IEEE International Symposium on Information Theory, June 21-25, Les Arcs, France. Contact Prof. Carl W. Helstrom, Dept. of Electrical Engineering and Computer Science, C0014, University of California, San Diego, La Jolla, CA 92093; (714) 452-3816.

Ⓢ **FTCS-12, 1982 International Symposium on Fault-Tolerant Computing, June 22-24**, Santa Monica, California. Contact David A. Rennels, UCLA, 3743 Boelter Hall, Los Angeles, CA 90024; (213) 825-2660.

Second International Conference on Data Bases: Improving Usability and Responsiveness, June 22-24, Jerusalem, Israel. Contact Peter Scheuermann, Dept. of Electrical Engineering and Computer Science, Northwestern University, Evanston, IL 60201; (312) 492-7141.

Infodial, International Congress and Exhibition on Data Bases and Data Banks, June 22-25, Paris, France. Contact SICOB, 6, place de Valois, F-75001 Paris, France; tele. (1) 261 52 42.

Comdex Spring 82, June 28-30, Atlantic City, New Jersey. Contact The Interface Group, PO Box 927, Framingham, MA 01701; (617) 879-4502.

Information and the Transformation of Society, June 28-30, Dublin, Ireland. Contact Conference Officer, Information and the Transformation of Society, Institute for Industrial Research and Standards, Ballymun Rd., Dublin 9, Ireland; tele. (01) 370101.

NECC 82, National Educational Computing Conference, June 28-30, Kansas City, Missouri. Contact E. Michael Staman, University of Missouri, Computer Services, 305 Jesse Hall, Columbia, Missouri 65211.

Videotex 82, June 28-30, New York, New York. Contact Online Conferences Limited, Argyle House, Joel St., Northwood Hills, HA6 1TS, Middlesex, UK.

Conference on Precision Electromagnetic Measurements, June 28-July 1, Boulder, Colorado. Contact Dee Belsher, National Bureau of Standards, 1-4001, 325 Broadway, Boulder, CO 80303; (303) 497-3981.

July 1982

1982 International Conference on Advanced Automation, July 13-15, Taipei, Taiwan, Republic of China. Contact Prof. Julius T. Tou, Center for Information Research, University of Florida, Gainesville, FL 32611; (902) 392-0932.

Communications and the Future, World Future Society's Fourth General Assembly, July 18-22, Washington, DC. Contact 1982 Assembly Committee, World Future Society, 4916 St. Elmo Ave., Bethesda, Maryland 20814.

Summer Computer Simulation Conference, July 19-21, Denver, Colorado. Contact Marvin F. Anderson, Dept. of Electrical and Computer Engineering, University of Colorado, 1100 14th St., Denver, CO 80202; (303) 629-2685.

CAD Ed 82, Second International Conference and Exhibition on CAD/CAM, July 19-22, Manchester, England. Contact Suzanne Mayhew, Scientific and Technical Studies, Norwich House, 11/13 Norwich St., London EC4A 1AB; tele. 01-242 2481/5.

Ⓢ **Symposium on Reliability in Distributed Software and Data Base Systems, July 20-21**, Pittsburgh, Pennsylvania. Contact Prof. Bharat Bhargava, Dept. of Computer Science, A-319, University of Pittsburgh, Pittsburgh, PA 15260.

International Conference on Electronic Image Processing, July 26-28, York, England. Contact IEE Conference Dept., Savoy Place, London WC2R 0BL, UK.

Ⓢ **Siggraph 82, Ninth Annual Conference on Computer Graphics and Interactive Techniques, July 26-30**, Boston, Massachusetts. Contact Siggraph 82, Convention Services Dept., 111 East Wacker Dr., Chicago, IL 60601; (312) 644-6610

August 1982

Performance Evaluation of Computer Systems and Networks at IMACS-10, August 8-13, Montreal, Canada. Contact IMACS, c/o Dept. of Computer Science, Rutgers University, New Brunswick, NJ 08903.

Second International Conference in Computer Science, August 9-13, Santiago, Chile. Contact Prof. Daniel M. Berry, 3531G Boelter Hall, Computer Science Dept., University of California, Los Angeles, CA 90024.

1982 ACM Symposium on Lisp and Functional Programming, August 15-18, Pittsburgh, Pennsylvania. Contact Guy L. Steele, Jr., Carnegie-Mellon University, Pittsburgh, PA 15213; (412) 578-2586.

Ⓢ **ASME Second International Computer Engineering Conference and Show, August 15-19**, San Diego, California. Contact Irwin Berman, Foster Wheeler Development Corp., 12 Peach Tree Hill Rd., Livingston, NJ 07039.

Ⓢ **Computer Vision: Representation and Control, August 23-25**, Rindge, New Hampshire. Contact Dr. Robert Haralick, VPI & State University, Dept. of EE, Blacksburg, VA 24061; (703) 961-6819.

Ⓢ **1982 International Conference on Parallel Processing, August 24-27**, Bellaire, Michigan. Contact Dr. Tse-yun Feng, Dept. of Computer and Information Science, The Ohio State University, 2036 Neil Ave. Mall, Columbus, OH 43210; (614) 422-1408.

25th Midwest Symposium on Circuits and Systems, August 30-31, Houghton, Michigan. Contact Prof. Paul Lewis, Dept. of EE, Michigan Technological University, Houghton, MI 49931.

September 1982

ECICS 82, European Conference on Integrated Interactive Computing Systems, September 1-3, Stresa, Italy. Contact Maria Simi, Istituto di Scienze dell'Informazione, Corso Italia 40, I-56100 Pisa, Italy; tele. 39 50 40862.

Ⓢ **Second International Symposium on Distributed Data Bases, September 1-3**, West Berlin Germany. Contact Prof. Dr. Hans-Jochen Schneider, Technische Universität Berlin, KU-A1, Kurfürstendamm 202, D-1000 Berlin 15, Germany.

Euromicro 82, September 5-9, Haifa, Israel. Contact M. Yoeli, Computer Science Dept., Technion-Israel Institute of Technology, Technion City, Haifa 32000, Israel; tele. (972) (4) 225111.

ICCC 82, Sixth International Conference on Computer Communication, September 7-10, London, England. Contact ICC 82, PO Box 23, Northwood Hills HA6 1TT, Middlesex, UK.

Eurographics 82, September 8-10, Manchester, England. Contact Eurographics, 170A Park Rd., Peterborough, England PE1 2QF.

Ⓢ **Practical Approaches to High-Availability Computer Systems, IEEE Computer Society Western Area Committee 21st Annual Lake Arrowhead Workshop, September 8-10**, Lake Arrowhead, California. Attendance will be by invitation. Apply by June 1, 1982, to Jim Gray, Conference Chairman, Tandem Computers, 19333 Valco Parkway, Cupertino, CA 95014; (408) 725-6212.

ASME 1982 Design Automation Conference, September 12-15, Washington, DC. (Not to be confused with the IEEE Computer Society/ACM Annual Design Automation Conference.) Contact Prof. Kenneth M. Ragsdell, Purdue University, School of Mechanical Engineering, West Lafayette, IN 47907; (317) 494-8607.

VLSI Packaging Workshop (IEEE et al.), September 13-14, Gaithersburg, Maryland. Contact George G. Harman, Room B344 Technology Bldg., National Bureau of Standards, Washington, DC 20234; (301) 921-3621.

Ⓢ **Sixth International Conference on Software Engineering, September 13-16**, Tokyo, Japan. Contact Sixth International Conference on Software Engineering, PO Box 639, Silver Spring, MD 20901; (301) 589-3386.

Wescon and Mini/Micro 82 (IEEE et al.), September 14-16, Anaheim, California. Contact Electronic Conventions, Inc., 999 North Sepulveda Blvd., El Segundo, CA 90245; (213) 772-2965.

Ⓢ **Compcon Fall 82, September 20-24**, Washington, DC. Contact Compcon Fall 82, PO Box 639, Silver Spring, MD 20901; (301) 589-3386.

ISSLE 82, International Symposium on Subscriber Loops and Services (IEEE et al.), September 20-24, Toronto, Canada. Contact Richard E. Mosher, American Telephone & Telegraph Co., 295 North Maple Ave., Room 3249B2, Basking Ridge, NJ 07920.

MICAD 82, Second European Conference on Computer-Aided Design, September 21-23, Paris, France. Contact Jean-Claude Raut, Chairman of the International Programme Committee, Agence de L'Informatique, Tour Fiat-Cedex 16, 92084 Parris-La Defense, France; tele. (1) 796.43.14.

1982 International Conference of the Chinese-Language Computer Society, September 22-23,

Washington, DC. Contact Prof. C.Y. Suen, Dept. of Computer Science, Concordia University, 1455 de Maisonneuve West, Montreal, Quebec H3G 1M8, Canada.

Ⓢ **Medcomp 82, International Conference on Medical Computer Science/Computational Medicine, September 23-25**, Philadelphia, Pennsylvania. Contact Dr. Judith M. S. Prewitt, National Institutes of Health, DCRT, Bldg. 12A, Room 2053, Bethesda, MD 20205; (301) 496-1247.

Ⓢ **Workshop on Applied Imagery—Pattern Recognition, September 27-28**, College Park, Maryland. Contact John Hall, 14742 Dillon Ave., Woodbridge, VA 22193.

1982 International Computer Music Conference, September 27-October 1, Venice, Italy. Contact La Biennale Di Venezia, ICMC/82, Limb/Settore Musica, S. Marco, CA' Giustinian, 30124 Venezia, Italy; tele. (041) 700311.

Federal Computer Conference, September 28-30, Washington, DC. Contact Federal Education Programs, PO Box 368, Wayland, MA 01778; (617) 358-5181.

Ⓢ **IEEE 1982 International Conference on Circuits and Computers (ICCC), September 29-October 1**, New York, New York. Contact Dr. John Golembeski, Bell Telephone Laboratories, Rm. 3E-217, Holmdel, NJ 07733; (201) 949-4974.

October 1982

Ⓢ **VLSI and Software Engineering Workshop, October 4-6**, Port Chester, New York. Contact J. A. Rader, 7372 W. 83rd St., Los Angeles, CA 90045.

Ⓢ **Micro 15, 15th Annual Workshop on Microprogramming, October 5-7**, Palo Alto, California. Contact Will Tracz, IBM-FSD, 101BM44, Oswego, NY 13827.

Sococo 82, Third IFAC/IFIP Symposium on Software for Computer Control, October 5-8, Madrid, Spain. Contact Sococo 82, E.T.S. Ingenieros Industriales, Castellana, 84, Madrid-6, Spain.

Annual Conference of the Italian Computer Society, October 6-8, Padova, Italy. Contact Prof. Luigi Mariani, Istituto di Elettrotecnica ed Elettronica, Università di Padova, Via Gradenigo n. 6A, 35100 Padova, Italy.

Ⓢ **Design Automation Workshop, October 6-8**, East Lansing, Michigan. Contact Design Automation Workshop, PO Box 639, Silver Spring, MD 20901; (301) 589-3386.

20th Annual Allerton Conference on Communication, Control, and Computing, October 6-8, Monticello, Illinois. Contact Prof. H. V. Poor, Coordinated Science Lab, University of Illinois at Urbana-Champaign, 1101 West Springfield Ave., Urbana, IL 61801.

First ACM Conference on Security, Audit, and Control in Office Systems, October 7-8, St. Louis, Missouri. Contact David R. Callaghan, Babson College, Babson Park, MA 02157; (617) 235-1200, ext. 467.

Workshop on Automotive Applications of Microprocessors (IEEE et al.), October 7-8, Dearborn, Michigan. Contact Patrick P. Fasang, Siemens Corporation, Corporation Research & Technology, PO Box 5031, Cherry Hill, NJ 08034.

Second Annual Convention of IEEE Sections of Central America and Panama, October 7-10, San Salvador. Contact Orest A. Meykar, Apartado 01-249, San Salvador, El Salvador; tele. 23-53-63.

Ⓢ **Large Scale Systems Symposium, October 11-13, Virginia Beach, Virginia.** Contact Dr. Stephen J. Kahne, National Science Foundation, Division of Elect. Comp. and Systems Engineering, 1800 G St. NW, Washington, DC 20550.

Safe Comp 82 Workshop (IEEE et al.), October 11-14, West Lafayette, Indiana. Contact Roy W. Yunker, PPG Industries, One Gateway Center, Pittsburgh, PA 15222.

Ⓢ **Seventh Conference on Local Computer Networks, October 12-13, Minneapolis, Minnesota.** Contact Rick Tett, Program Chairman, 4425 North Victoria St., Shoreview, MN 55112; (612) 484-7611.

Journées D'Electronique 82, International Conference on Optoelectronics in Telecommunication and Measurement Systems, October 12-14, Lausanne, Switzerland. Contact Selection Committee, Secrétariat des Journées d'électronique, Département d'électricité-EPFL, Cheminde Bellerive 16, CH-1007 Lausanne, Switzerland.

Ⓢ **Ninth Annual International Conference on Computers in Cardiology, October 12-15, Seattle, Washington.** Contact William J. Sanders, Cardiology Division, Stanford University, Palo Alto, CA 94305.

Fourth Israeli Quality Assurance Conference, October 18-21, Herzliyah, Israel. Contact Ben Livson, Dept. 4540, Israel Aircraft Industries, Ben-Gurion International Airport, Israel; tele. 03-973111/6821.

Ⓢ **Third International Conference on Distributed Computing, October 18-21, Ft. Lauderdale, Florida.** Contact Distributed Computing, PO Box 639, Silver Spring, MD 20901; (301) 589-3386.

Informatica 82, 15th Brazilian National Informatics Congress, October 18-24, Rio de Janeiro, Brazil. Contact R. Colcher, Sucesu-Sociedade Dos Usuarios de Computadores e Equipamentos Subsidiarios, Rua Do Darmo, 57-6 Andar, 2011-Rio de Janeiro, Brazil.

1982 International Display Research Conference (IEEE et al.), October 19-21, Cherry Hill, New Jersey. Contact Thomas Henion, Palisades Institute, 201 Varick St., New York, NY 10014; (212) 620-3384.

Ⓢ **Sixth International Conference on Pattern Recognition, October 19-22, Munich, Germany.** Contact Prof. Dr. H. Marko, Lehrstuhl für Nachrichtentechnik, der Technischen Universität München, 8000 München, Federal Republic of Germany.

1982 ACM Annual Conference, October 25-27, Dallas, Texas. Contact William Burns, ACM 82 Chairman, E-Systems, Inc., PO Box 26118, Dallas, TX 75266; (214) 272-0515, ext. 3916.

Ⓢ **First Annual Workshop on Interactive Computing: CAD/CAM: Electrical Engineering Education, October 25-28, Charlottesville, Virginia.** Contact Dr. Harlan D. Mills, IBM-FSD, 6600 Rockledge Dr., Bethesda, MD 20034; (301) 493-1495.

Fourth Symposium of Information Control Problems in Manufacturing Technology, October 26-28, Gaithersburg, Maryland. Contact M.

Auman, National Bureau of Standards, Bldg. 220, Room A 123, Washington, DC 20234.

Ⓢ **Fifth IEEE Symposium on Mass Storage Systems, October 26-28, Boulder, Colorado.** Contact Bernard T. O'Lear or Karen Friedman, National Center for Atmospheric Research, PO Box 3000, Boulder, CO 80307; (303) 494-5151, ext. 293 or 387.

Ⓢ **ISMIII 82, International Symposium on Medical Imaging and Image Interpretation, October 26-28, Berlin, Germany.** Contact Dr. Judith M. S. Prewitt, National Institutes of Health, DCRT, Bldg. 12A, Room 2053, Bethesda, MD 20205; (301) 496-1247.

1982 IEEE International Conference on Cybernetics and Society, October 28-30, Seattle, Washington. Contact William B. Rouse, Center for Man-Machine Systems Research, School of Industrial and Systems Engineering, Georgia Institute of Technology, Atlanta, GA 30332; (404) 894-3996.

Ⓢ **Sixth Annual Symposium on Computer Applications in Medical Care, October 30-November 2, Washington, DC.** Contact Bruce Blum, Symposium Program Chairman, Johns Hopkins University, Traylor 514, Baltimore, MD 21205; (301) 955-8379.

November 1982

Ⓢ **Annual Workshop on Computing to Aid the Handicapped, November 4-5, Charlottesville, Virginia.** Contact Dr. J. H. Aylor, University of Virginia, Thornton Hall, Dept. of EE, Charlottesville, VA 22901; (804) 924-3042.

Ⓢ **16th Asilomar Conference on Circuits, Systems, and Computers, November 8-10, Pacific Grove, California.** Contact Herbert E. Rauch, Lockheed 52-56/205, Palo Alto Research Laboratory, 3251 Hanover St., Palo Alto, CA 94304.

Ⓢ **Compsac 82, The IEEE Computer Society's Sixth International Computer Software and Applications Conference, November 8-12, Chicago, Illinois.** (Tutorials: November 8-9; Conference and Exhibition: November 10-12.) Contact Compsac 82, PO Box 639, Silver Spring, MD 20901; (301) 589-3386.

1982 International Microelectronics Symposium, November 15-17, Reno, Nevada. Contact Walter Mathews, 410 Cambridge Ave., Palo Alto, CA 94306; (415) 327-3721.

Ⓢ **International Test Conference, Cherry Hill 82, November 16-18, Philadelphia, Pennsylvania.** Contact Robert P. Davidson, American Telephone & Telegraph, PO Box C, Long Valley, NJ 07853; (201) 428-3178.

Midcon 82 (IEEE et al.), November 30-December 2, Dallas, Texas. Contact Electronic Conventions, Inc., 999 North Sepulveda Blvd., El Segundo, CA 90245; (213) 772-2965.

December 1982

Special Conference on PL 96-511 and Beyond, December 2-4, Washington, DC. Contact PL 96-511 and Beyond, 12611 Davan Dr., Silver Spring, MD 20904; (301) 622-0066.

Ⓢ **Tencon 82, VLSI and Microcomputers: Today and Tomorrow, December 6-8, Hong Kong.** Contact S. Y. King, Dept. of EE, University of Hong Kong, Hong Kong.

Ⓢ **1982 Real-Time Systems Symposium, December 7-9, Los Angeles, California.** Contact Dr. Earl E. Swartzlander, Defense and Space Systems Group of TRW, Huntsville Facility, 7702 Governors Dr. West, Huntsville, AL 35805; (205) 837-3950.

1983

Ⓢ **HICSS-16, 16th Annual Hawaii International Conference on System Sciences, January 5-7, Honolulu, Hawaii.** Contact Dr. Bruce Shriver, Computer Science Dept., University of Southwestern Louisiana, PO Box 44330, Lafayette, LA 70504.

Ⓢ **Southeastern IEEE Computer Society Conference, January 9-13, Orlando, Florida.** Contact Southeastern Computer Society Conference, PO Box 639, Silver Spring, MD 20901; (301) 589-3386.

Ⓢ **Comcon Spring 83, February 28-March 3, San Francisco, California.** Contact Frederick W. Clegg, Hewlett-Packard, 11000 Wolfe Rd., Cupertino, CA 95014; (408) 725-8111, ext. 3746.

Ⓢ **16th Annual Simulation Symposium, March 16-18, Tampa, Florida.** Contact V.P. Boyd, US Postal Service, 475 L'Enfant Plaza, Washington, DC 20260.

Ⓢ **Workshop on Computer System Organization, March 29-31, New Orleans, Louisiana.** Contact Dr. Bruce D. Shriver, USL Box 4330, Lafayette, LA 70504; (318) 231-6284.

Ⓢ **International Symposium on VLSI Technology and Systems, March 31-April 1, Taipei, Taiwan, Republic of China.** Contact Dr. H. N. Yu, IBM T. J. Watson Research Center, PO Box 218, Yorktown Hgts., NY 10598.

Ⓢ **Sixth International Symposium on Computer Hardware Description Languages and Their Applications, May 23-25, Pittsburgh, Pennsylvania.** Contact Takao Uehara, Information Processing Laboratory, Fujitsu Laboratories LTD., 1014 Kawasaki, Japan 211 or Mario Barbacci, Dept. of Computer Science, Carnegie-Mellon University, Pittsburgh, PA 15213.

Ⓢ **13th International Symposium on Multiple-Valued Logic, May 23-25, Kyoto, Japan.** In Japan contact Tadahiro Kitahashi, School of Information and Computer Science, Toyohashi University of Technology, Toyohashi, 440 Japan; tele. 0532-47-0111, ext. 520. In the US contact Jon T. Butler, Northwestern University, Dept. of EECS, Evanston, IL 60201; (312) 492-5628.

Ⓢ **10th International Conference on Computer Architecture, June 13-16, Stockholm, Sweden.** Contact Prof. H. W. Lawson, Jr., Linköping University, S-581 83, Linköping, Sweden.

Ⓢ **FTCS-13, 1983 International Conference on Fault-Tolerant Computing, June 28-30, Milano, Italy.** Contact Dr. Daniel P. Siewiorek, Carnegie-Mellon University, Dept. of Computer Science and EE, Schenley Park, Pittsburgh, PA 15213.