CALL FOR PAPERS

ACM 1984 ANNUAL CONFERENCE
October 8-10, 1984 • San Francisco Hilton Hotel
San Francisco, California

THE FIFTH GENERATION CHALLENGE

The 1984 ACM Annual Conference will explore the advanced integrated systems and new techniques of the 1990's—the "Fifth Generation". The papers may include discussions of the building blocks of the Fifth Generation now emerging from laboratories and production facilities, as well as advanced techniques and research.

You are invited to submit
• a technical paper which is an original contribution to the computing art on a building block or issue of the Fifth Generation
• a survey of a field of interest, or
• a proposal for a tutorial or panel.

Topics may be drawn from any of the following areas:
Building Blocks of the Fifth Generation
• System architectures
• Circuit and computer design
• Supercomputers
• Operating systems
• Programming languages
• Developments in artificial intelligence
• Database, expert, and knowledge-based systems
• Simulation and modelling
• Robotics and sensing
• Graphics, voice and touch technologies
• Office and industrial applications of CAD/CAM
• Integrated microcomputer systems
• Intelligent workstations
• Local Area and Long Haul Networks

The Objectives and Character of Integration in the Fifth Generation
• Interface and data communications technologies (software and hardware)
• Software development tools and environments

• Portability and adaptability of programs, subsystems and databases
• Standardization issues

The Impact of the Fifth Generation
• Security, privacy and controls
• Limits on technology transfer
• Applications for the 1990's in business, education, manufacturing, research and the professions
• Anticipated changes in society

All papers and proposals for panels or tutorials must be received by February 15, 1984. Notification whether submissions have been accepted will be sent by April 30, 1984. Panels or tutorials which will be accepted must submit an outline or summary by each participant by June 1, 1984.

Papers or proposals shall be selected on the basis of their expected value to the attendees at the Conference and to the readers of the Conference Proceedings. Authors need not be members of ACM to submit papers or proposals. All papers which are to be published in full will be refereed.

Following selection, authors will be sent special paper and instructions for preparing camera-ready copy (due June 30, 1984) and must sign the copyright release form which will be included in the instructions.

Send papers and proposals by February 15, 1984 to
Alexander D. Roth
Program Chairman, ACM '84
9900 Main Street, Suite 303
Fairfax, Virginia 22031
(703) 385-0211

For further information contact Mr. Roth at the above address.