CALL FOR PAPERS

Recent technological advances in biomedical imaging and signal acquisition and recent innovations in computer architecture and displays are opening vistas in computer-automated and computer-assisted pattern analysis. The International Symposium will provide a transdisciplinary forum for biomedical and computer scientists/engineers and medical professionals from universities, medical centers, industry and government to exchange information and ideas, and to assess progress and potential. The participation of young scientists, engineers and physicians will be encouraged.

The Technical Program will emphasize innovative research and applications, and will consist of contributed and invited papers, workshops, panels and exhibitions covering the state-of-the-art, work-in-progress, critical issues, and research initiatives and incentives.

Papers are solicited on all aspects of biomedical image, signal and pattern analysis and computer graphics, including:

- New Imaging Modalities
- New Imaging Instrumentation
- Organ Imaging
- Microscopic Imaging
- Computed Tomography
- Clinical Applications
- Research Applications
- Visual Psychophysics
- Performance Evaluation
- Standards and Calibration
- Quality Assurance and Compliance
- Medical Device Regulation
- Technology Assessment
- Innovation Cycle: Concept to Product
- Education and Curricula
- Imaging Science
- Signal Processing
- Restoration, Enhancement and Filtering
- Image Analysis
- Image Models
- Syntactical/Structural/Statistical Pattern Recognition
- Computer Vision
- Computer-Aided Diagnosis
- Artificial Intelligence
- Image Databases and Archiving
- Medical Computer Graphics
- Computer Architectures and Languages
- Image Analysis Systems
- Computer Graphics Systems

Prospective authors and panelists should submit four copies of a 200-500 word abstract, including six keywords which best characterize the paper, plus a short statement indicating the new contribution and its biomed-ical impact. Authors should indicate whether the paper will be long (10 pages maximum, 30 minutes, or short, 5 pages maximum, 15 minutes). Papers will be published by the Computer Society Press in the Conference Proceedings and will be eligible for inclusion in "Computers and Computing in Medicine: Vol.I" and special issues of IEEE Transactions. Authors' kits for new camera-ready manuscripts will accompany notification of acceptance.

On behalf of the Conference Committee, we extend our invitation to all who would like to share the excitement and rewards of biomedical image and pattern analysis and computer graphics in the atmosphere of the International Symposium.

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CONFERENCE TIMETABLE

Four copies of 200-500 word abstract due . . . . . March 15, 1982
Acceptance letters and authors' kits mailed . . . . . June 15, 1982
Complete camera-ready manuscripts due . . . . . August 2, 1982