Papers are being solicited for the First International Conference on Computer Software and Applications—COMPSAC 77. Sponsored by the IEEE Computer Society, COMPSAC 77 will bring together computer practitioners, users, and researchers to share their ideas, experiences, and requirements for applications software, management techniques, and software development support, including automated techniques. Attendance at COMPSAC is a must for the computer professional and practitioner alike who wants to keep up on the latest developments in this important, fast-moving field.
PAPERS ARE INVITED IN ANY OF THE FOLLOWING CATEGORIES:

1. Development methodology
   - Systems analysis
   - Automated requirements generation
   - Design specification techniques
   - Modularization
   - Process construction
   - Higher-order systems implementation languages and packages
   - Portability
   - Interpretive simulation
   - Translator writing systems
   - Verification and validation
   - Integration and test techniques
   - Reliability and maintainability
   - Error-resistant design
   - Automated measurement and monitoring techniques
   - Documentation
   - Standardization certification

2. Management
   - Configuration management of systems and control
   - Life cycle estimation
   - Cost estimation
   - Risk analysis
   - Development scheduling
   - Maintenance planning
   - Documentation control
   - Quality control

3. Database management systems
   - Database system design
   - Database and operating systems interface
   - Database models
   - Data manipulation languages
   - Data access techniques
   - Distributed data base systems
   - Database administration
   - Performance measurement techniques
   - Security, integrity, and privacy requirements

4. Transaction and information management systems
   - Electronic funds transfer systems
   - Inventory systems
   - Purchase order systems
   - Automated library systems
   - Automated accounting systems
   - University computing center systems
   - Health care systems
   - Resource scheduling

5. Real-time applications
   - Process control
   - Electronic switching systems
   - Reservation systems
   - Securities exchange systems
   - Point-of-sale systems
   - Patient monitoring systems
   - Air traffic control
   - Missile defense systems
   - Ship maneuver control
   - Command and control centers
   - Adaptive control systems
   - Machine numerical control
   - Instrument control
   - On-board signal processing

6. Computerized decision-making systems
   - Management policy planning
   - Strategy development
   - Forecasting systems: economic, weather, elections, etc.
   - Computer-aided medical diagnosis
   - Computer-aided instruction
   - Pattern recognition
   - Speech recognition
   - Natural language processing
   - Electronic games

7. Data communication and computer networking
   - Telecommunication and teleprocessing
   - Communication network control
   - Message routing and switching
   - Distributed computing systems
   - Process decomposition
   - Multiple processor software
   - Interprocessor coordination
   - Performance measurement
   - Security and privacy

8. Case studies
9. Computer-aided design
10. Simulation
11. Software tools
12. Mini-micro software development
13. Social, legal, and regulatory issues
14. Organizational impact

Papers should range in length between 1000 and 5000 words.
Submission deadline: June 1, 1977.
Authors will be notified of acceptance by August 1, 1977, and will be given instructions for final preparation of their papers for inclusion in the conference proceedings. Deadline for submission of camera-ready papers: October 1, 1977.
Exceptionally high quality papers will be considered for publication in *IEEE Transactions on Computers* or *IEEE Transactions on Software Engineering*.

Submit papers (5 copies, double-space typing) to the program chairman:
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