Creating or Co-Creating:
- the GLOBUS grid computing standard
- the DETER real-world cyber-security facility and research
- the Internet, in which we played a significant role, including:
  - Refined TCP/IP, created Domain Name System, invented “dot-com” terminology
  - Hosted "Request for Comments" series, the Internet’s essential foundation
  - Invented early Internet security applications
- the LOMG knowledge representation language and environment
- the MONARCH supercomputer-on-a-chip
- self-configuring robots
- MOSIS chip fabrication
- SOAR architecture for developing intelligent behavioral systems
- Voice over Internet protocol (VoIP)
- one of the first portable computers

Launching and Operating:
- the USC Lockheed Martin Quantum Computation Center
- a National Security Agency Information Assurance (NSA IA) Center of Excellence

Government and Corporate Customers:
- US Army and Air Force Office of Scientific Research
- US Defense Advanced Research Projects Agency
- US Intelligence Community
- National Institutes of Health and National Science Foundation
- National Institute for Standards and Technology
- US Geological Survey
- Chevron Corporation
- Northrup Grumman Corporation

The USC Information Sciences Institute (ISI) is a world-class computer science and engineering research organization. A unit of the University of Southern California’s highly ranked Viterbi School of Engineering, ISI attracts $60 million in public- and private-sector funding annually. ISI bridges the gap between basic research and product development, from practical applications of theory to hands-on prototyping. Known for our key role in creating and evolving the Internet, we offer depth and breadth of expertise across technology disciplines — along with proven skills in technology transfer, intra-USC and inter-institutional collaboration, and classified research.

The Institute is led by senior researchers who are experts in their respective disciplines. Many ISI staff have Ph.D.s, and about 50 also serve as USC teaching and research faculty. ISI employs 350 professionals and students at its Marina del Rey, California headquarters and in Arlington, Virginia.

We conduct basic and applied research in advanced electronics, artificial intelligence/ intelligent systems, computational systems and technology, and informatics.

Software expertise includes natural language, information and geospatial integration, decision systems, computer networks and grid computing. Hardware encompasses novel electronics and our popular MOSIS chip fabrication unit. Among our integrated technologies: robotics, software/hardware supercomputing, high-performance computing and systems-on-a-chip.

Founded in 1972, ISI has helped define the leading edge of computing technology for four decades. We blend conceptual vision with the real-world usability vital to R&D advances.
ADVANCED ELECTRONICS
- MOSIS low-cost prototype and small-volume chip fabrication; novel electronics such as cognitive radio; space systems such as cube satellites

ARTIFICIAL INTELLIGENCE/INTELLIGENT SYSTEMS
- Natural language, knowledge technologies, robotics, information and geospatial integration such as integrated satellite/text information

COMPUTATIONAL SYSTEMS AND TECHNOLOGY
- Quantum computing, high-performance and supercomputing, systems-on-a-chip, collaborative systems, biomimetics such as a retina implant

INFORMATICS
- Medical/health informatics, decision systems, grid computing, computer networks and security such as a major cyber-security facility and research

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