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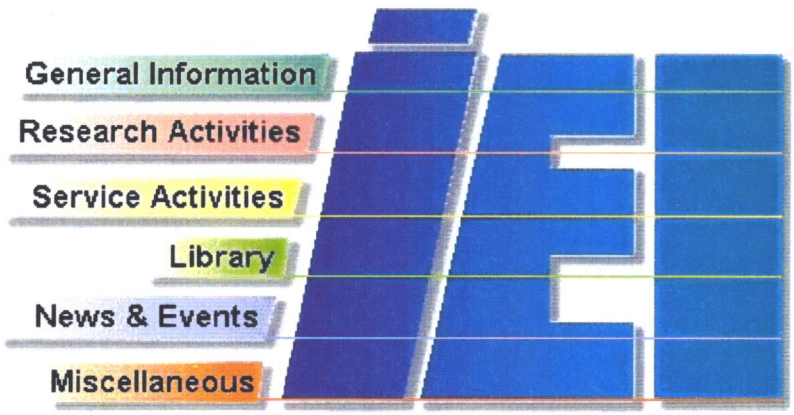

About this page People Search

[General Information][Research Activities][Service Activities]
[Library] [News & Events] [Miscellaneous]

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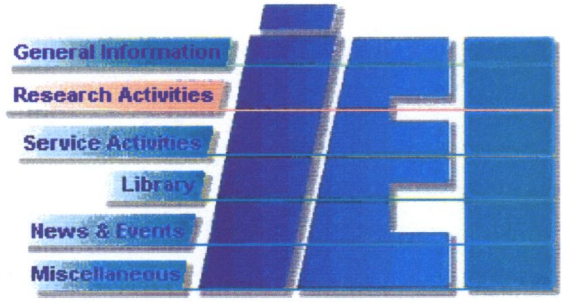
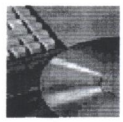
The Institute conducts theoretical and applied interdisciplinary research activities in several sectors. Most of the scientific activity is performed within the framework of national and international research projects.



Methods and Tools for Software Systems

Image and Signal Processing

Computer System Architectures



Information Engineering

Computer Graphics

Scientific Programmes

[General Information][Research Activities][Service Activities]
[Library] [News & Events] [Miscellaneous]
[*Home*]

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SCIENTIFIC PROGRAMMES

CNR Targeted Projects:

- Cultural Heritage. Visualization of 3-Dimensional Objects of Historical and Artistic Importance
- Cultural Heritage. Markov Field Models and Neural Networks for the Automatic Restoration of Printed Documents and Manuscripts.

CNR Strategic Projects:

- Application of IT Methods and Techniques in the Public Administration.
- Knowledge through Images: Virtual Museum of Informatics in Italy.
- Technology Transfer. Study of Integrated Access Modes to Data Banks through the WWW.
- Project for Scientific and Technological Co-operation with Mediterranean Countries: IT to support the Development and Management of Thematic Digital Libraries.

CNR Special Projects:

- Automatic Character Recognition for Old Printed Books (LAperLA).
- Algorithms and Techniques for Fusion of Information between Artificial Vision Modules.
- Analysis and Processing of Responses to Olfactory Stimuli by Natural and Artificial Sensors.

CNR Coordinated Projects:

- Methods and Tools for the Analysis, Verification and Validation of Safety-Critical Systems.
- Logic Programming for Software Engineering.
- Multiresolution Models for the Visualization of Multidimensional Scalar Fields.
- Characterization of Temporal Series in Biology and Medicine.
- Parallel Architectures and Algorithms for Neural Networks and their Application.
- Self-Diagnosis of Massively Parallel Systems.

CNR Integrated Projects:

- Methods and Tools for the Design and Verification of Heterogeneous Systems connected by Communication Networks.
- Methodologies, Tools and Models for the Design and Evaluation of Real-time Dependable Systems.

European Commission Projects:

- ESPRIT-LTR FERMI: Formalisation and Experimentation on the Retrieval of Multimedia Information.
- ESPRIT-LTR HERMES: Foundation of High Performance Multimedia Information

Management Systems.
- ESPRIT- MIAOW: Marble Industry Advertising Over the World.
- Telematics-Libraries Programme ARCA: Access to Remote Catalogues by Implementing SR Target Functions.
- BRITE III: Study and Development of a System for the Multi-Inspection of Material, Goods and Artistic Objects, based on Various Investigative Techniques, Models for Data Fusion, and Integrated Classification Methods.
- ESPRIT-HPCN: Hipertex: High Performance System for Textile Evaluation.
- ESPRIT-GUARDS: Generic Upgradable Architectures for Real-time Dependable Systems.

European Commission Working Groups:

- ESPRIT-LTR SIMOS: Supporting Interactive Multimedia On-line Services.
- ESPRIT-LTR DELOS: Digital Libraries.
- ESPRIT-LTR MIRA: Evaluation of Multimedia Information Retrieval Systems.

European Commission Networks of Excellence:

- ESPRIT IDOMENEUS.
- ESPRIT CABERNET: Distributed Computing Systems Architecture.
- Human Capital & Mobility
- EADTN-ERCIM: Advanced Databse Technology Network.
- Human Capital & Mobility - OLOS: A Holistic Approach to the Dependability Analysis and Evaluation of Control Systems Involving Hardware, Software and Human Resources.

Collaboration with Other Research Institutions:

- IEI-CNR and Dept. of Physiology and Biochemistry of Pisa University: Study of Methods and Techniques for the Analysis of Rapid Movements in Biology.
- CNR and ENEA. National Programmme for Research in the Antarctic: Design and Development of Tools for a Federation of Distributed Heterogeneous Data Banks with High Level Interfaces for Man-machine Dialogue.

Projects with Industry:

- IEI-CNR and ENEL-DSR: Tools and Methods for Control and Measuring in Combustion Processes.
- IEI-CNR and SEED s.r.l.: Digital Processing of Signals in the Audio Bandwidth for Biomedical, Electroacoustic and Telephone Applications.