The ISTI Library was founded in 1954. Since 2000 is part of the Library Service and Scientific Documentation Centre of the CNR Research Area in Pisa.

The Library works to support the research activities and the researchers. The staff takes care of and enhances the bibliographic and documentary heritage of ISTI and the other institutes belonging to the CNR Research Area.

The Library is involved in the fields of Grey Literature (GL), Digital Libraries, and institutional archives. The Library subscribes and promotes the principles and actions of the Open Science community, giving information about national and international initiatives and managing services for the institutes located in the Area and the interested authors.

The Library staff manages the ISTI scientific production and supports the authors in the research assessment procedures.

The descriptions of ISTI laboratories research activities are extracted from ISTI laboratories brochures. Other info are available here.

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INNOVATIVE SOLUTIONS IN CYBER-PHYSICAL SYSTEMS FIELD, BUT THE DEVELOPED TECHNOLOGIES HAVE MUCH WIDER APPLICATION OPPORTUNITIES. WN LAB FOCUS HIS WORK IN THE DESIGN OF NEW ALGORITHMS AND TOOLS RANGING FROM THE SMART CITIES TO

THE FORMAL METHODS AND TOOLS (FMT) LAB HAS LONGSTANDING EXPERIENCE IN THE DEVELOPMENT AND APPLICATION OF FORMAL NOTATIONS, METHODS, AND SOFTWARE SUPPORT TOOLS FOR THE SPECIFICATION, DESIGN, AND VERIFICATION OF COMPLEX SYSTEMS. THE FMT LAB IS ALSO ACTIVE IN REQUIREMENTS ENGINEERING AND IN VARIOUS BRANCHES OF SOFTWARE ENGINEERING, AND IN THE AREAS OF COMPUTER ETHICS AND INFORMATION TECHNOLOGY AND SOCIETY.

INTEGRATED METHODOLOGIES, ROOTED ON THE SYNERGY BETWEEN SOFTWARE ENGINEERING AND DEPENDABLE COMPUTING DISCIPLINES. TO FACE THE CONTINUOUS EVOLUTION AND RISING CRITICALITY OF SOFTWARE-INTENSIVE SYSTEMS.

THE SYSTEM AND SOFTWARE EVALUATION CENTER (SSE) LAB PERFORMS THIRD-PARTY EVALUATION AND CERTIFICATION OF PROCESSES AND PRODUCTS IN THE AREA OF NFORMATIONTECHNOLOGY, ACCORDING TO GIVEN REQUIREMENTS AND STANDARDS TO MEET THE NEEDS OF USERS, INDUSTRY AND PUBLIC ADMINISTRATION. INDUSTRIAL CHALLENGES, DEMANDS AND NEEDS IN SYSTEM AND SOFTWARE DEVELOPMENT PROCESSES. ARE THE DRIVERS OF THE SSEC RESEARCH ACTIVITY.

THE ARTIFICIAL INTELLIGENCE FOR MEDIA AND HUMANITIES (AIMH) LAB HAS THE MISSION TO INVESTIGATE AND ADVANCE THE STATE OF THE ART IN THE ARTIFICIAL INTELLIGENCE FIELD, SPECIFICALLY ADDRESSING APPLICATIONS TO DIGITAL MEDIA AND DIGITAL HUMANITIES, AND

THE HUMAN INTERFACES IN INFORMATION SYSTEMS THIS? LAB RESEARCH ACTIVITY AIMS TO ADDRESS FUNDAMENTAL QUESTIONS ON THE INTERACTION BETWEEN PROFILE AND TECHNOLOGIES AND FOCUSES ON METHODS AND TOOLS TO SUPPORT USER INTERFACE DESIGNERS, BOFTWARE DEVELOPERS, AND END USERS IN OBTRINING SYSTEMS THAT CAN BE ACCESSIBILITY, AND USER EXPERIENCE

THE EVOLUTION OF SCIENCE PRACTICES BY INVESTIGATING, EXPERIMENTING, AND CLOSELY CONNECTING RESEARCH AND DEVELOPMENT OF INNOVATIVE DIGITAL INFRASTRUCTURES, INFORMATION SYSTEMS, AND SMART SOLUTIONS FOR FOSTERING AND EMPOWERING DATA-CENTERED RESEARCH

HE KNOWLEDGE DISCOVERY AND DATA MINING (KDD) LAB IS A JOINT RESEARCH INITIATIVE OF ISTI INSTITUTE

THE HIGH PERFORMANCE COMPUTING (HPC) LAB CARRIES OUT RESEARCH ON INFORMATION ANALYTICS, MACHINE LEARNING AND ARTIFICIAL INTELLISENCE, MOBILITY ANALYSIS

THE SIGNALS & IMAGES [SI] LAB GOAL IS TO INCREASE THE KNOWLEDGE IN THE FIELDS OF SIGNAL PROCESSING. IMAGE UNDERSTANDING. AND ARTIFICIAL VISION. IN BOTH THEORETICAL AND APPLICATIVE CONTEXTS. THIS GOAL WILL BE ACHIEVED BY STUDYING AND DEVELOPING MODELS, COMPUTER-BASED METHODS, INTELLIGENT SYSTEMS AND MACHINES FOR THE FORMATION, ELABORATION, ANALYSIS, AND RECOGNITION OF IMAGES AND SIGNALS, AND THEIR APPLICATION IN THE SOCIETY.

THE VISUAL COMPUTING [VC] LAB FOCUS HIS WORK ON THE DESIGN OF NEW COMPUTER GRAPHICS TECHNIQUES. WITH A SPECIAL FOCUS ON GEOMETRY PROCESSING. LEARNING, ACQUISITION, VISUALIZATION, AND PHYSICAL REPRODUCTION. THE VC LAB

SOFTWARE DEVELOPMENT AND CONSULTING IN THE FIELD OF CONTINUUM MECHANICS, WITH PARTICULAR FOCUS ON STRUCTURAL ENGINEERING, MAIN RESERRCH TOPICS ARE COMPUTATIONAL SOLIO MECHANICS, MECHANICS OF MASONAY STRUCTURES, STRUCTURAL HEALTH MONITORING OF HISTORIC BUILDINGS

THE SPACE FLIGHT DYNAMICS (SFO) LAB IS ACTIVE IN THE FIELDS OF DRBITAL DEBRIS MDDELING, MITIGATION AND REMEDIATION, REENTRY PREDICTIONS OF UNCONTROLLED SPACECRAFT AND ROCKET BODIES FOR CIVIL PROTECTION APPLICATIONS. SPACE EXPERIMENTS FDR FUNDAMENTAL PHYSICS, MISSIDN ANALYSIS, INCLUDING FLIGHT OPERATIONAL SUPPORT,

NETW ORKING

WIRELESS NETWORKS (WN)

SOFTWARE

FORMAL METHODS AND TOOLS (FMT)

SOFTWARE, ENGINEERING & DEPENDABLE COMPUTING (SEDC)

SYSTEM AND

SOFTWARE EVALUATION (SSE)

KNOWLEDGE

ARTIFICIAL INTELLIGENCE FOR MEDIA AND **HUMANITIES (AIMH)**

HUMAN INTERFACES IN INFORMATION SYSTEMS (HIIS)

> INFRASTRUCTURES FOR SCIENCE (INFRASCIENCE)

KNOWLEDGE DISCOVERY AND DATA MINING (KDD)

HIGH PERFORMANCE COMPUTING

> **HIGH PERFORMANCE** COMPUTING (HPC)

> > VISUAL

SIGNALS AND IMAGES (SI)

VISUAL COMPUTING (VC)

|FLIGHT AND| STRUCTURAL MECHANICS

MECHANICS OF MATERIALS AND STRUCTURES (MMS)

> **SPACE FLIGHT** DYNAMICS (SFD)



