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PAPERS

Full papers, not later than January 15, 1980,
should reach:

Dr. Francesco Pincirolì
Istituto di Elettrotecnica ed Elettronica
Politecnico di Milano
Piazza Leonardo da Vinci 32
20133 MILANO (Italia)

Papers, complete with illustration material,
should be submitted in three copies, comprising:

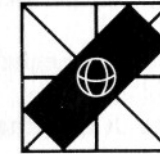
1. Cover page containing
 - a) title of paper;
 - b) name, country, affiliation and mailing address of the author(s);
 - c) program area best fitting the paper.
2. Abstract page, containing an abstract not exceeding 100 words.
3. Text of paper (in English), typewritten double-spaced not exceeding 12 pages.
4. Illustrations (draft or copies of originals — do not send original photographs or artwork).

The Conference Proceedings will be published by North Holland Publishing Company.

Time Schedule

<u>Full papers submission</u>	<u>January 15, 1980</u>
<u>Acceptance</u>	<u>February 15, 1980</u>
<u>Conference</u>	<u>February 6-7-8, 1980</u>

Invitation to attend and Call for Papers for the
IFIP-IMIA Working Conference on



**"CHANGES IN HEALTH
CARE INSTRUMENTATION DUE TO
MICROPROCESSOR TECHNOLOGY"**

To be held on May 7-8-9, 1980 at:
ISTITUTO SUPERIORE DI SANITA
VIA REGINA ELENA, 299 - ROME (ITALY)

Co-operators:

Istituto Superiore di Sanità (I.S.S.)
Associazione Italiana per il Calcolo Automatico
(A.I.C.A.)
Associazione Italiana di Ingegneria Medica e
Biologica (A.I.I.M.B.)
Associazione Italiana di Informatica Medica
(A.I.M.)
Gruppo di Lavoro Informatica Medica Italiana
(I.M.I.)

**PURPOSE
OF THE WORKING CONFERENCE****AIMS AND SCOPE:**

In recent years large scale integrated (LSI) systems have represented the more relevant fact in the area of hardware and subsequently software systems.

Microprocessors are a true support for LSI systems.

It seems that their availability will turn out to be the driving force for the implementation of the concept of "distributed informatics" in the future.

This general trend will also be apparent in the health care informatics domain, where satisfactory cost/benefit and cost/effectiveness ratios are still to be reached.

In the broad field of biomedical instrumentation, microprocessors will have a very significant impact, and probably in a few years a new generation of biomedical instrumentation will be on the market, distinguished from actual instruments by both very improved performance and better adaptation to health care needs. Also in other fields as text processing and office automation, a vast area of computer applications seems to have been opened by the availability of the microprocessor technology.

The aim of the Working Conference is to explore the improvements of performance in some relevant areas of health care, and to discuss to what extent this equipment will solve data handling problems currently unsolved.

**PROGRAM AREAS
OF THE WORKING CONFERENCE****COMPONENTS, ARCHITECTURES
AND SOFTWARE TOOLS**

Components, Interfaces and Special Purpose Devices, Architectures, Design and Development Tools.

PROCESSING

Acquisition, Pre-Processing and Processing of Health Care Data and Signals, Process Control and Identification Algorithm Implementation.

QUALIFICATIONS

Safety, Standardization, Reliability and Availability, User Oriented Flexibility in Research Applications and in Industrial Production.

**PRODUCTS, SERVICES
AND RELATED BENEFITS**

New Products and Services, Relevant Improvements of Existing Instrumentation, Patient Usable Equipment, Rehabilitation Devices. Distributed Informatics in Medicine.

EDUCATION AND TRAINING

In Bioengineering and in Medical Areas. User Oriented Information System about LSI Products and Biomedical Instruments.