



**HEARTFAID**

**D32– Second Report on  
Dissemination Activities**

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## HEARTFAID

### A KNOWLEDGE BASED PLATFORM OF SERVICES FOR SUPPORTING MEDICAL-CLINICAL MANAGEMENT OF THE HEART FAILURE WITHIN THE ELDERLY POPULATION

Project summary	
Project acronym:	HEARTFAID
Project identifier:	IST – 2005 – 027107
Duration of the Project:	01/02/2006 – 31/01/2009
Project Co-ordinator:	UNICAL University of Calabria (Italy)
Thematic Priority:	Information Society Technology
Instrument:	Specific Targeted Research or Innovation Project

<b>Consortium</b>
<ul style="list-style-type: none"> <li>➤ UNICAL- Università della Calabria (Italy)</li> <li>➤ UNICZ- Università degli studi Magna Graecia di Catanzaro (Italy)</li> <li>➤ UNIMIB- Università degli studi di Milano Bicocca (Italy)</li> <li>➤ JUMC- Jagiellonian University Medical College (Poland)</li> <li>➤ VMWS- Virtual Medical World Solutions Ltd (United Kingdom)</li> <li>➤ FORTHNET S. A.- Hellenic Telecommunications and Telematic Applications Company S. A. (Greece)</li> <li>➤ SYNAP- Synapsis s.r.l. (Italy)</li> <li>➤ CNR- Consiglio Nazionale delle Ricerche (Italy)</li> <li>➤ FORTH-Foundation for Research and Technology Hellas (Greece)</li> <li>➤ RBI- Rudjer Boskovic Institute (Croatia)</li> <li>➤ AUXOL- Istituto Auxologico Italiano (Italy)</li> </ul>



## D32 First Report on Dissemination Activities

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Short description
This document contains an overview of the dissemination activities carried out by the Heartfaid consortium along the second year of the project. In particular, a detailed description of the specific dissemination activities performed by each partner is given.

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1.0	First draft of the document	14-01-2008
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## Executive Summary

In this deliverable we detail the most relevant issues related to the activities carried out during the second reporting period, concerning the dissemination of the knowledge “extracted” from the overall activities of HEARTFAID project.

The deliverable provides a general overview of the horizontal dissemination activities and dissemination to the general public. Moreover, the specific dissemination activities carried out by each partners have been extensively presented

The contents of the document are organized as follows. After the introduction, in which the dissemination guidelines (reported in the deliverable D6) have been briefly described, the section 2 presents the general dissemination activities carried out by the whole consortium.

The section 3 contributes for almost all the document and regards the specific dissemination activities carried out by each partner. In fact, for each partner, after a brief introduction on the most important activities carried out and the indication of some future activities, details are given in the form of table, by which it is possible to summarize, in a “synoptic” way, all the specific types of dissemination activities performed.



## 1 Introduction

The HEARTFAID consortium is carrying out dissemination activities which are continuously under development and upgrading along the entire duration of the project. These activities concern the wide diffusion and distribution of knowledge and information related to the project and to the establishment of a close cooperation with potential end-users, the scientific community and professional organizations. The consortium is trying to balance the need of a capillary diffusion of the information that can better be done using individual efforts by all the partners with the provision of a uniform image of the consortium itself.

According to the early plan for using and disseminating knowledge (deliverable D6), the dissemination activities have been mainly organized on the basis of the following items:

- The members of the HEARTFAID consortium have raised awareness of their own project but have also actively participated in activities that have raised the profile of the HEARTFAID initiative in general. The partners have collaborated and cooperated amongst each other, and also have participated in some “clustering” activities, e.g. workshops or joint review meetings.
- A project website has been created and it will be maintained during the project period and beyond it in order to inform the public worldwide about the aims and the main results of the HEARTFAID project. Public deliverables are making available on the web site.
- Dissemination activities beyond the consortium: publications, conferences, workshops and web-based activities aiming at disseminating the knowledge and technology produced.
- The project is promoting both the coordinated publication in research journals as well as in sector oriented magazines.
- Each partner is operating its own dissemination activity as well using its web site and its dissemination channels mainly on a geographical base.
- As it is already established in the Project Handbook, if the Work Package Leaders Group has agreed a Project Deliverable to be available to the public, any partner may publish information included in such Project Deliverable without any notifications to the other partners and without any other partners’ consent. At this stage of the project, publishable results are coming from the following deliverables of the second reporting period:
  - WP2: D19.
  - WP3: D20 and D28.
  - WP4: D21, D22, D29.
  - WP5: D30.
  - WP6: D23 and D31.



## **2 Consortium Dissemination Activities in the Second Reporting Period**

### **2.1 Dissemination to the General Public**

Raising public participation and awareness is a strategic activity of the whole project, which is involving all the partners.

In order to create a wider project awareness impact, the main objectives of raising public participation and awareness are the effective involvement of all relevant intermediaries, actors and stakeholders, with particular attention to European regional governmental bodies, health care professional associations, patient associations and Higher Education institutions.

With the contribution of all the partners, an inner circle of User Interest Groups made of healthcare organizations and institutions from the 5 countries of the consortium is currently establishing.

In the different countries, a larger circle of a User Interest Group is also going to be established, to publicise by seminars in each country the project to a wider audience of healthcare institutions. The involvement and interaction with end-users health care organizations will encourage further experimentation and clinical validation of the developed systems, services and tools.

Strong interactions will be established also with the interested intermediary organisations (European regional governmental bodies, healthcare professional associations and patient associations), by holding, in cooperation, seminars, workshops and press conferences.

Particular attention has been devoted to the interaction with European higher education institutions (i.e. Universities and Colleges), with the end to disseminate the innovative results of HEARTFAID to young student at several grade levels (bachelor, master and PhD).

Suitable connections and agreements is going to be established with Schools of Medicine, Faculties of Biology and Faculties of Engineering, by organizing specific initiatives, based, for instances, on e-learning and face-to-face short courses.

Also secondary education institutions, at European level, will be involved by disclosing events which could improve the awareness of young people on the broad matter of information technologies in medicine and health care delivery.

Especially at the launch of the project, but also during its run, particular attention has been paid to the issue of press releases, in order to give wide public resonance to the overall project's activities.

Finally, additional material is going to be developed during the project's lifetime like fact sheets, leaflets, press releases, web links and articles, etc. and this will further contribute to the dissemination activities.



## 2.2 Horizontal Activities

This section identifies current and potential future horizontal activities of the HEARTFAID project. This includes joint work with other projects as well as further co-operations and exchange activities. Moreover, the participation to concertation and clustering activities organized by EU Commission has been taken into account.

From the beginning of the project, it became obvious that there are many projects and initiatives with which a co-operation should in principle be possible. HEARTFAID is generally open to all these co-operation activities. However, mainly because of resource issues, each co-operation opportunity needs to be evaluated carefully, considering resource requirements, mutual benefits and synergies, and time lines of the different activities.

The HEARTFAID partners have agreed on a process within the consortium to handle these co-operation activities. The key points are:

- A free exchange of overview information with any other activity that shows interest in HEARTFAID (or, with activities to which HEARTFAID partners would like to set-up a contact).
- In case that there is mutual interest and certain activities or potential working areas are defined, the consortium will agree on whether HEARTFAID shall engage in this co-operation.
- If the consortium supports such an activity, a responsible contact person (“liaison officer”) will be appointed, representing HEARTFAID and acting as key interface to the other project.
- The definition of co-operation details, including topic areas and formal steps that might be required, will be defined on a case-by-case basis.

Under this respect, a very important clustering event has been organized during the second reporting period. In fact, exploiting the opportunity offered by the International Conference “Healthinf 2008” (held in Madeira – Portugal – on 28-31 January 2008), a Special Session has been organized about “Knowledge Discovery and Decision Support Systems in Health Information Systems”.

The main aim of the Special Session has been to present, analyze and discuss new research trends about the devising and development of advanced approaches for medical ontologies and medical knowledge discovery, representation and management and how these issues can impact on the architectural organization and development of effective and efficient Clinical Decision Support Systems.

These topics has been deeply discussed and assessed through the current activities of EU FP6 projects, strongly involved in the development and application of the mentioned technologies and methodologies within several clinical domains, namely **HEARTFAID**, **ACGT**, **MyHEART** and **@neurIST**.





In particular, **ACGT** aims to present the 'next-step' in cancer research and fill-in the technological gaps of clinical trials targeting two forms of cancer: breast cancer and paediatric nephroblastoma. ACGT will develop a Biomedical GRID infrastructure supporting seamless mediation services for sharing clinical and genomic expertise. It will help to identify quicker and more efficiently the characteristics that determine what form of treatment best suits which patient.

**MyHEART** is an integrated project aiming at developing intelligent systems for the prevention and monitoring of cardiovascular diseases. The project develops smart electronic and textile systems and appropriate services that empower the users to take control of their own health status.

**@neurIST** is an integrated project aiming at developing integrative decision support systems based on multi-scale computational suites for personalised brain aneurysm rupture risk assessment and treatment.

All the above projects are working on the design and development of new and more efficient approaches for heterogeneous biomedical data acquisition and integration, for the development of effective medical knowledge bases and the implementation of inference engines in order to realize reliable and useful Clinical Decision Support Systems within the Cardiovascular and Oncology domains.

#### **Chairs**

**Domenico Conforti**, Università della Calabria, Italy, HEARTFAID Coordinator.

**Joël Bacquet**, European Commission, Information Society & Media DG, ICT for Health Unit, Belgium.

#### **Keywords**

Decision Support Systems, Medical Ontologies, Medical Knowledge Discovery, Medical Knowledge Representation, Medical Knowledge Management.

#### **Programme of the Special Session**

✚ *INITIAL RESULTS ON KNOWLEDGE DISCOVERY AND DECISION SUPPORT FOR INTRACRANIAL ANEURYSMS*

Christoph M. Friedrich, Martin Hofmann-Apitius, Robert Dunlop, Ioannis Chronakis, Miriam C. J. M. Sturkenboom, Roelof Risselada, Baldo Oliva and Ferran Sanz

✚ *MY-HEART PROJECT: ANALYSIS OF SLEEP AND STRESS PROFILES FROM BIOMEDICAL SIGNAL*

Sergio Cerutti, Anna M. Bianchi and Martin O. Mendez

✚ *A SEMANTIC GRID SERVICES ARCHITECTURE IN SUPPORT OF EFFICIENT KNOWLEDGE DISCOVERY FROM MULTILEVEL CLINICAL AND GENOMIC DATASETS*

Manolis Tsiknakis, Stelios Sfakianakis, Stefan Rueping, Oswaldo Trelles, Thierry Siestang, Brecht Claerhout and Vasilis Virvilis



- ✚ *DECISION SUPPORT AND IMAGE & SIGNAL ANALYSIS IN HEART FAILURE - A Comprehensive Use Case*  
Sara Colantonio, Massimo Martinelli, Davide Moroni, Ovidio Salvetti, Francesco Perticone, Angela Sciacqua, Franco Chiarugi, Domenico Conforti, Antonio Gualtieri and Vincenzo Lagani
- ✚ *MYHEART - Fighting Cardio-vascular Diseases by Prevention and Early Diagnosis*  
Ralf Schmidt, Jörg Habetha and Matthew Harris
- ✚ *ONTOLOGY BASED INTEGRATION OF DISTRIBUTED AND HETEROGENEOUS DATA SOURCES IN ACGT*  
Luis Martín, Alberto Anguita, Víctor Maojo, Erwin Bonsma, Anca Bucur, Jeroen Vrijnsen, Mathias Brochhausen, Christian Cocos, Holger Stenzhorn, Manolis Tsiknakis, Martin Doerr and Haridimos Kondylakis
- ✚ *MEDICAL KNOWLEDGE REPRESENTATION WITHIN HEARTFAID PLATFORM*  
Dragan Gamberger, Marin Prcela, Alan Jovic, Tomislav Šmuc, Ganfranco Parati, Mariaconsuelo Valentini, Kalina Kawecka-Jaszcz, Katarzyna Styczkiewicz, Andrzej Kononowicz, Antonio Candelieri, Domenico Conforti and Rosita Guido.



### 3 Individual Dissemination Activities

#### 3.1 Dissemination Activities of UNICAL

The HEARTFAID's research activities of the partner UNICAL is facing by the Department of Electronics, Informatics and Systems (DEIS) within the Research Laboratory on DECISION ENGINEERING FOR HEALTH CARE DELIVERY (*de\_Health Lab*), whose scientific responsible is Prof. Domenico Conforti.

The *de\_Health Lab* is currently working on developing models, methods and techniques for the support of decision making in health care. This activity is doing in collaboration with several health care institutions. In particular, the overall activity covers two broad research items: the development of Knowledge based Decision Support Systems for medical diagnosis, prognosis and therapy; the development of quantitative models and methods for the Health Care Management.

The specific dissemination activities, which are currently carrying out by UNICAL, are the following:

- As HEARTFAID coordinator, interaction and collaboration with other EU projects and general third parties.
- Participation to concertation and clustering meeting and IST events.
- Dissemination of HEARTFAID results and methodologies within the world wide scientific community of Operations Research and Management Science.
- Publication of HEARTFAID methodological results on international journals of Operations Research and Management Science.
- Transferring of HEARTFAID methodological results to undergraduate, graduate and PhD courses.
- Transferring of HEARTFAID results to the health care operators involved in the relevant medical domain.
- Development, within the Project Web Site, of dedicated pages for dissemination to the general public.

#### UNICAL Overview Table

Dates and Place	Event	Type	Type and Size of Audience	Countries addressed	Partner responsible /involved
12-13 Feb 2007 Brussels Belgium	Int. Conf. on Personal Health Systems - Internal Meeting with the ref. of MyHeart and	Meeting	About 8 people involved in FP6 EU e-Health projects	EU	UNICAL FORTH



Dates and Place	Event	Type	Type and Size of Audience	Countries addressed	Partner responsible /involved
	ACGT				
22-23-24 Oct. 2007 Rende (CS) Italy	<i>"HEALTH CARE"</i> <i>module of the Master in Computational Science organized by NEC-CESIC</i>	Lectures	About 20 students	Italy	UNICAL
13-15 Dec. 2008-03-19 Bari Italy	AITIM 2007 National Congress of the Italian Association of Medical Informatics	Conference	About 100 experts among medical informatics and medical doctors	EU	UNICAL
18-20 Dec. 2007 Bari Italy	4th Workshop on Semantic Web Applications and Perspectives (SWAP 2007)	Conference	About 140	EU	UNICAL CNR FORTH UNICZ
30 Jan 2008 Madeira Portugal	Int. Conference on Health Informatics HEALTHINF2008 – Special Session on Knowledge Discovery and Decision Support Systems in Health Information Systems	Organiz. of the Event and Paper Presentation	About 30 experts in e-Health issues	EU	UNICAL FORTH CNR

### 3.2 Dissemination Activities of UNICZ

UNICZ has carried out its own internal dissemination activities, by increasing the awareness of Heartfaid activities and current results within its own institution. In particular UNICZ website ([www.unicz.it](http://www.unicz.it)) has been utilized as dissemination knowledge channel.

Moreover, UNICZ has consolidated the interactions with the following health care professional associations with the aim to keep informed about the Heartfaid activities:



- ◆ ANMCO (Italian Association of Hospital Cardiologists)
- ◆ SIC (Italian Society of Cardiology)
- ◆ SIMI (Italian Society of Internal Medicine)

In particular UNICZ organizes at the University Hospital, a meeting every two months with the persons in charge of the above mentioned Scientific Societies, in Calabria, to discuss about the state of the art of heart failure in Calabria region. Other Societies are involved, as the Italian Society of General practitioners (SIMG). Hence, within this knowledge dissemination activity, specialized doctors in Cardiology, Internal Medicine, Geriatry and General Practitioners, are considered and in this context also the progresses in Heartfaid project are discussed. Moreover UNICZ-Cardiovascular Disease Unit is joined to the “National Group of Cardiac Function, Cardiomiopathies and Heart Failure Study, of the Italian Society of Cardiology”, this activity allows to disseminate Heartfaid knowledge at the national and international level, by meetings and papers.

Finally for the 2<sup>nd</sup> year of the project, UNICZ has presented, directly as partner responsible or in collaboration with the other partners, the Heartfaid current results during the following events, with production of some publications:

- ◆ Sicily and Calabria Congress of the Italian Society of Internal Medicine (SIMI), in Vibo Valentia, (Italy) April 19-21, 2007
- ◆ Advanced School in Nursing Science, organized by the Italian Society of Cardiology (SIC), in Amantea (Italy), April 15, 2007
- ◆ The Fourth Magna Græcia Meeting, organized by UNICZ, in Crotona (Italy), September 28-29, 2007
- ◆ The National Congress of the Italian Society of Internal Medicine (SIMI), in Rome (Italy), October 20-23, 2007
- ◆ The National Congress of the Italian Society of Cardiology (SIC), in Rome (Italy), December 15-18, 2007
- ◆ The 4th Semantic Web Workshop, Semantic Web Applications and Perspectives. University of Bari – Italy, December 18-20, 2007.
- ◆ International Conference on Health Informatics, Madeira (Portugal) January 28-31, 2008

#### UNICZ Overview Table

<b>Dates and Place</b>	<b>Event</b>	<b>Type</b>	<b>Type and Size of Audience</b>	<b>Countries addressed</b>	<b>Partner responsible /involved</b>
<i>April 19-21, 2007 Vibo Valentia (Italy)</i>	Sicily and Calabria Congress of the Italian Society of Internal	<i>Oral presentation</i>	<i>300-350 Specialized doctors (Cardiology, Internal Medicine,</i>	<i>Italy</i>	<i>UNICZ</i>



<b>Dates and Place</b>	<b>Event</b>	<b>Type</b>	<b>Type and Size of Audience</b>	<b>Countries addressed</b>	<b>Partner responsible /involved</b>
	Medicine		<i>Geriatry) and General practitioners</i>		
<i>April 15, 2007 Amantea (Italy)</i>	Advanced School in Nursing Science, organized by the Italian Society of Cardiology	<i>Oral presentation</i>	<i>100 Specialized Nurses</i>	<i>Italy</i>	<i>UNICZ</i>
<i>September 28-29, 2007 Crotona (Italy)</i>	The Fourth Magna Graecia Meeting	<i>Oral presentation</i>	<i>150-200 Specialized doctors (Cardiology, Internal Medicine, Geriatry)</i>	<i>Italy</i>	<i>UNICZ</i>
<i>October 20-23, 2007 Rome (Italy)</i>	The National Congress of the Italian Society of Internal Medicine	<i>paper</i>	<i>About one-thousand of Specialized doctors</i>	<i>Italy</i>	<i>UNICZ/all the consortium</i>
<i>December 15-18, 2007 Rome (Italy)</i>	The National Congress of the Italian Society of Cardiology	<i>paper</i>	<i>About three-thousands of Specialized doctors</i>	<i>Italy</i>	<i>UNICZ/all the consortium</i>
<i>December 18-20, 2007 Bari (Italy)</i>	The 4th Semantic Web Workshop	<i>Oral presentation /paper</i>	<i>About 140 informatics</i>	<i>Italian /International</i>	<i>CNR (responsible)/ UNICZ, UNICAL</i>
<i>January 28-31, 2008 Madeira (Portugal)</i>	International Conference on Health Informatics	<i>Oral presentation /paper</i>		<i>International</i>	<i>CNR (responsible)/ UNICZ, UNICAL, FORTH</i>

### 3.3 Dissemination Activities of UNIMIB

UNIMIB did not carried out, during the second reporting period, any relevant dissemination activity.



### 3.4 Dissemination Activities of JUMC

During the second year of the project JUMC has contributed to the dissemination of HEARTFAID through presenting its design and preliminary results at several scientific meetings:

- at the scientific meetings of the Krakow Division of Polish Cardiac Society and Polish Hypertension Society
- at the meeting for the Department staff serving as an update on ongoing research activities of the Department and progress in cardiovascular science scientific news

The information on HEARTFAID is placed on the web pages of the I Cardiac Department at JUMC (<http://www.kardiologia1.cm-uj.krakow.pl/>) and official JUMC [www.cm-uj.krakow.pl](http://www.cm-uj.krakow.pl) websites as dissemination knowledge channel.

JUMC is carrying out also internal dissemination activities, by increasing the awareness of Heartfaid project and its current results within medical personnel in our institution, within the staff of collaborating Department of Bioinformatics and Telemedicine JUMC, and HF patients/their relatives visiting hospital and ambulatory unit.

#### JUMC Overview Table

Dates and Place	Event	Type	Type and Size of Audience	Countries addressed	Partner responsible /involved
13.11.2008, Cracow, PL	Meeting of Department's staff	Scientific event	Medical staff, about 20 persons	PL	JUMC
09.01.2008, Cracow, PL	Meeting of Cracow Division of Polish Hypertension Society	Scientific event	Physicians, about 100 persons	PL	JUMC

### 3.5 Dissemination Activities of VMWS

VMWS did not carried out, during the second reporting period, any relevant dissemination activity.



### 3.6 Dissemination Activities of FORTHNET

FORTHNET did not carried out, during the second reporting period, any relevant dissemination activity.

### 3.7 Dissemination Activities of SYNAPSIS

SYNAP did not carried out, during the second reporting period, any relevant dissemination activity.

### 3.8 Dissemination Activities of CNR

CNR has disseminated HEARTFAID activity and achievements by taking advantage of its cooperation with the academic world and in cooperative research and development programs, both national and international. In particular, participations to MUSCLE NoE and W3C XG MMSEM, collaborations with AIM@SHAPE NoE and with the Dorodycin Computing Center of the Russian Academy of Sciences were exploited for the horizontal spreading of the project goals and results.

CNR has also contributed to the organization of a special session, titled “Knowledge Discovery and Decision Support Systems in Health Information Systems”, of the International Conference on Health Informatics – HEALTHINF 2008, held in Funchal, Madeira Portugal in January 2008.

Plus, CNR has taken part to important national and international events promoting the project activities. A summary can be found in the table below.

**CNR Overview Table**

<b>Dates and Place</b>	<b>Event</b>	<b>Type</b>	<b>Type and Size of Audience</b>	<b>Countries addressed</b>	<b>Partner responsible /involved</b>
20-23 August 2007 Ettlingen Germany	7th Open German-Russian Workshop on Pattern Recognition and Image Understanding	2 Oral presentations	200 participant among computer scientists, mathematicians, and engineers	International	CNR
17 September 2007	DSP Application Day, University of Milan, Department	2-hours long seminar	~100 participants among	Italy	CNR





<b>Dates and Place</b>	<b>Event</b>	<b>Type</b>	<b>Type and Size of Audience</b>	<b>Countries addressed</b>	<b>Partner responsible /involved</b>
Milan, Italy	of Computer Science and Communication. Seminar on “Methods for image processing” featuring the description of the activity carried out within HEARTFAID Project as example		computer science students and researchers		
23-24 October 2007 Cosenza, Italy	“HEALTH CARE” module of the Master in Computational Science organized by NEC-CESIC. Seminar on “Biomedical image processing” featuring the description of the activity carried out within HEARTFAID Project as example	4-hours long seminar	~20 participants (students)	Italy	CNR
18 July 2007 Leipzig Germany	International Conference of mass-data analysis of images and signals in Medicine, Biotechnology and Chemistry MDA 2007	Conference Organization	~70 participant among computer scientists, mathematicians, and engineers	International	CNR
18-20 December 2007 Bari, Italy	4 <sup>th</sup> Workshop on Semantic Web Applications and Perspectives (SWAP 2007)	Oral presentation	140 among computer scientists and information engineers	International	CNR – UNICZ-UNICAL
22-23 January 2008 Funchal, Madeira, Portugal	First Workshop on Image Mining. Theory and Applications. In conjunction with VISAPP2008	2 oral presentation	30 among computer scientists, mathematicians and information engineers	International	CNR
30 January 2008 Funchal, Madeira, Portugal	Int. Conference on Health Informatics HEALTHINF2008 – Special Session on Knowledge Discovery and	Paper Presentation + Organization	30 among computer scientists, mathematicians, physicians	International	CNR - FORTH-UNICZ-UNICAL



Dates and Place	Event	Type	Type and Size of Audience	Countries addressed	Partner responsible /involved
	<i>Decision Support Systems in Health Information Systems</i>		<i>and information engineers</i>		

### 3.9 Dissemination Activities of FORTH

FORTH has carried out dissemination activities according to the general plans defined in the deliverable D6. In particular FORTH has carried out its own internal dissemination activities, by increasing the awareness of Heartfaid activities and current results within its own institution. With this perspective FORTH has also collaborated on the final review of the HEARTFAID leaflets. (contributions to D32).

Furthermore FORTH has also participated in the Personal Health Systems Event in Brussels (February 12-13, 2007) where a first discussion for joint dissemination of results among the myHEART, ACGT and HEARTFAID projects was started. FORTH has then collaborated in the organization of a special session at HEALTHINF 2008 (Madeira, Portugal), that will be a clustering activity of the project where a joint discussion and dissemination of the results among the myHEART, ACGT and HEARTFAID projects has been successfully made. FORTH has also collaborated in the preparation of two papers for the HEALTHINF 2008 conference (both accepted for oral presentation):

- a. A. Schlögl, C. Vidaurre, E. Hofer, T. Wiener, C. Brunner, R. Scherer, F. Chiarugi. “BIOSIG: Standardization and quality control in biomedical signal processing using the BioSig project”.
- b. S. Colantonio, M. Martinelli, D. Moroni, O. Salvetti, D. Perticone, A. Sciacqua, F. Chiarugi, D. Conforti, A. Gualtieri, V. Lagani. “Decision support and image & signal analysis in heart failure: a comprehensive use case”.

The second paper has been presented by FORTH in the special session.

Other dissemination activities performed by FORTH have been:

- Invited presentation at pHealth 2007 in Thessaloniki:
  - C. E. Chronaki. “Interoperability Standards in the Medical Device Industry and the Implications for pHealth”.
- Oral presentation of two papers at Computers in Cardiology 2007 (Durham, North Caroline, USA) (September 30-October 3):
  - F. Chiarugi, V. Sakkalis, D. Emmanoulidou, T. Krontiris, M. Varanini, I. Tollis. “Adaptive Threshold QRS Detector with Best Channel Selection Based on a Noise Rating System”.



- A. Schloegl, F. Chiarugi, E. Cervesato, A. Apostolopoulos, C. E. Chronaki. “Two-Way Converter between the HL7 aECG and SCP-ECG Data Formats Using BioSig”.
- Publication of a paper in IEEE Transactions on Biomedical Engineering (issue of August 2007):
  - F. Chiarugi, M. Varanini, F. Cantini, F. Conforti, G. Vrouchos. “Noninvasive ECG as a Tool for Predicting Termination of Paroxysmal Atrial Fibrillation”.
- Publication of a survey paper in the “Health Information Systems” section of the IMIA Yearbook of Medical Informatics 2007:
  - S. Sfakianakis, C. E. Chronaki, F. Chiarugi, F. Conforti, D. G. Katehakis. “Reflections on the Role of Open Source in Health Information System Interoperability” (pp. 50-60).

### FORTH Overview Table

<b>Dates and Place</b>	<b>Event</b>	<b>Type</b>	<b>Type and Size of Audience</b>	<b>Countries addressed</b>	<b>Partner responsible /involved</b>
<b>12-13 Feb. 2007</b>	Int. Conf. on Personal Health Systems Internal Meeting with the ref. of MyHeart and ACGT	Oral Presentation	Members of FP6 e-Health projects About 8 participants	<i>EU</i>	<i>FORTH UNICAL</i>
<b>20-22 June 2007</b>	pHealth 2007	Invited presentation	50 participants	<i>EU</i>	<i>FORTH</i>
<b>30 Sep. - 3 Oct. 2007</b>	Computers in Cardiology 2007	Oral Presentations	300 participants (engineers, computer scientists and cardiologists)	<i>World Wide</i>	<i>FORTH</i>
<b>30 January 2008</b>	Int. Conference on Health Informatics HEALTHINF2 008 – Special Session on Knowledge Discovery and Decision Support Systems in Health Information Systems	Organiz. of the Event and Paper Presentation	About 30 experts in e-Health issues	<i>EU</i>	<i>UNICAL FORTH CNR</i>



### 3.10 Dissemination Activities of RBI

The main dissemination activity has been through presentations on scientific conferences. In the second year we prepared and presented in total 6 scientific papers presenting results achieved on the Heartfaid project. Mainly the papers have been prepared by young researchers financially supported by the project. Two of the papers have been prepared in cooperation with our STAB external scientific advisor dr. Nada Lavrač from J. Stefan Institute, Ljubljana, Slovenia. One of the papers has been prepared as a joint effort of five project partners (UNICAL, UNIMIB, JUMC, AUXOL, and RBI). One of the papers has been presented also outside Europe in cooperation with the J. Stefan Institute and conference participation was completely covered by this partner.

Additionally we had one poster presentation of the work done for the Heartfaid project at the summer school for PhD students devoted to logic in artificial intelligence.

We had also one message to the official web site of the Croatian Cardiology Society presenting the goals, methodology, and preliminary results of the Heartfaid project. The message was published connected with the STAB meeting held in Zagreb in July 2007.

Finally, we are proud of the official request for sharing the results in HF knowledge representation by Stanford University Medical Center. They will use the HF ontology developed as part of the Heartfaid project for scientific research in the etiology of congestive heart failure.

#### RBI Overview Table

Dates and Place	Event	Type	Type and Size of Audience	Countries addressed	Partner responsible /involved
21.-25. May 2007. Opatija Croatia	MIPRO - International Convention 2007	<i>conference</i>	<i>conference participants, mainly computer scientist, 150 participants</i>	<i>mainly Croatia</i>	<i>RBI</i>
8-10 June 2007. Nanjin, China	PAKDD 2007, 11th Pacific-Asia Conference on Knowledge Discovery and Data Mining	<i>conference</i>	<i>conference participants, mainly computer scientist, 350 participants</i>	<i>Pacific Rim</i>	<i>JSI + RBI</i>
25.-28. June 2007. Cavtat, Croatia	ITI 2007, 29th International Conference Information	<i>conference</i>	<i>conference participants, mainly computer scientist, 200</i>	<i>Croatia and Slovenia</i>	<i>RBI</i>



<b>Dates and Place</b>	<b>Event</b>	<b>Type</b>	<b>Type and Size of Audience</b>	<b>Countries addressed</b>	<b>Partner responsible /involved</b>
	Technology Interfaces		<i>participants</i>		
<b>26.-30. June 2007. Ljubljana, Slovenia</b>	MEDICON 2007, 11th Mediterranean Conference on Medical and Biological Engineering and Computing	<i>conference</i>	<i>conference participants, mainly technical scientist, 250 participants</i>	<i>Slovenia and Mediterranean region</i>	<i>JSI + RBI</i>
<b>07.-11. July 2007 Amsterdam, The Netherlands</b>	11th Conference on Artificial Intelligence in Medicine AIME2007	<i>conference</i>	<i>conference participants, mainly computer scientist, 100 participants</i>	<i>Europe + partialy USA</i>	<i>RBI</i>
<b>20.-28. August 2007 Leuven, Belgium</b>	ACAI 2007 Logic for Artificial Intelligence	<i>summer school</i>	<i>PhD students in computer science participating the summer school, 50 participants</i>	<i>Europe</i>	<i>RBI</i>
<b>3. Aug. 2007. Zagreb, Croatia</b>	Croatian Cardiology Society	<i>message to the official web site</i>	<i>Croatian cardiologist, 150 members of the society</i>	<i>Croatia</i>	<i>RBI + dr. Krstajić</i>
<b>4. Oct. 2007. Stanford, USA</b>	-	<i>request for sharing the results</i>	<i>scientists from Stanford University</i>	<i>USA</i>	<i>RBI</i>
<b>28. Jan. 2008. Vienna, Austria</b>	Lecture at Ludwig Boltzmann Institute for Traumatology	<i>invited talk</i>	<i>medical doctors, 30 participants</i>	<i>Austria</i>	<i>RBI</i>
<b>30. Jan. 2008. Funchal Portugal</b>	HealthInf 2008	<i>conference</i>	<i>conference participants, mainly computer scientist, 20 participants</i>	<i>Europe</i>	<i>RBI</i>

### 3.11 Dissemination Activities of AUXOL

AUXOL did not carried out, during the second reporting period, any relevant dissemination activity.

