

## PERSONAL INFORMATION Franca Delmastro

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## WORK EXPERIENCE

Jan 2021 - current

### Senior Researcher at Institute of Informatics and Telematics IIT - CNR

The research activity focuses on distributed and mobile computing systems with particular attention to data collection and analysis from wearable, environmental and smartphone-embedded sensors for health and well-being monitoring and interventions, context recognition and pervasive recommender systems. I worked for several years on the definition, development and experimental evaluation of **mobile health (m-health) systems** for elderly and frail population, but these solutions can be customised also for other target populations. The systems has been developed both for AAL environments and they are also deployed in a long-term care facility for remote monitoring of heterogeneous health conditions and behaviour. Currently the research activity focuses on the following themes:

- **M-health systems for the collection of physiological and behavioural data, including social interactions.**
- **Data analysis and definition of AI-based DSS for the automatic detection of anomalies and risk prediction**
- **Automatic context recognition algorithm based on smartphone embedded sensor data to further personalised m-health systems**
- **Mobile recommender systems and personalised coaching to stimulate behavioural change and improve the quality of life.**

I'm also studying **edge/fog computing** techniques and **on-device machine learning** to maintain the data management locally on the user's personal mobile device.

15 Jan 2010 – Dec 2020

### Permanent Researcher at Institute of Informatics and Telematics IIT – CNR

The research activity includes all the themes discussed above. In addition, in the initial part of my career I studied wireless networking and data dissemination protocols over mobile and opportunistic networks, based on device-to-device communications, I proposed a context-aware middleware platform for mobile social networks (MSN) on top of which several applications have been developed and experimentally evaluated, and I studied also mobile peer-to-peer systems and routing protocols for mobile ad hoc and opportunistic networks.

Mar 2007 – 14 Jan 2010

### Temporary Researcher at Institute of Informatics and Telematics IIT - CNR

Jan 2003 – Feb 2006

### Research Assistant (Assegno di Ricerca) at Institute of Informatics and Telematics IIT - CNR

## EDUCATION AND TRAINING

May 2006

PhD degree in Computer Engineering, University of Pisa, Italy

October 2002

MSc degree in Computer Engineering (109/110)

## PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s): ENGLISH (C2)

## Job-related skills

**Projects' Coordination and Responsibility roles:** In the last 10 years I've been responsible for several national and international research projects, with specific reference to the study and development of **ICT solutions for health and well-being**. In particular, I've been PI for IIT research unit of the **Project AGORA' e-CABIN**, funded by the Ministry of Transport (2017-2018); PI for IIT research unit, WP5 Leader and Task 1.2 Leader of the **Project FAR-FAS INTESA: Servizi Ict iNTEgrati per il bEnessere di Soggetti frAgili**, funded by Tuscany Region (2016-2019); Scientific coordinator, PI for IIT research unit and WP2 leader of the Project **"SocializeMe, un progetto di cooperazione tra enti di ricerca e scuole superiori"** funded by Fondazione Cassa di Risparmio di Lucca (2016-2018); and PI for IIT in **EIT Digital "GameBus: social health games"** 2015-2016 focused on social interactions monitoring through wearable and mobile devices. In 2014 I have been Coordinator of the Project **"Well-being @ Lucca"** funded by Fondazione Cassa di Risparmio di Lucca and Scientific coordinator of the Project **"L'ICT per la salute e la solidarietà sociale (e-SHS)"** funded as Progetto Premiale in 2012, in which 10 CNR institutes participated. Finally, in 2013 I've been PI for IIT research unit in EIT ICT Labs "Apps for your car" and in **POR-CREO "Smart Healthy ENV: Smart Monitoring Integrated System for a Healthy Urban ENVironment in Smart Cities"** (2012-2015) funded by Tuscany region. I've been also involved in the research unit of several European and National projects.

**Institutional Responsibilities:**

2022 – **Working Group Member "Global health, One health"** - CINI Digital Health Laboratory created on request of the Italian Health Ministry  
 2021 - IIT reference person for the participation in the **CINI Laboratory on Digital Health**  
 2021 - CNR reference person for the participation in **ARTES-ISAAC (Healthcare and Life Science 12/2019 – ongoing** Elected member of the **IIT Board (Consiglio di Istituto)**  
 2019 – 2021 IIT reference person for the participation in the **CINI Working Group on Digital Health 09/2019- ongoing** Scientific coordinator of the **research collaboration between IIT and iCARE srl** (nursing home facility) for the design, development and evaluation of innovative ICT solutions for health and well-being for elderly.  
 2016 – 2018 **CNR expert** and reference person in the Scientific Board of the Comune di Pisa for Smart Mobility research activities.  
 2014 – ongoing **Co-chair of the DIITET Project Area (AP) on "Health, care and well-being"**  
 2013 – 2020 **National Expert** in the Italian Program Committee for Horizon 2020 – SC1 "Health, demographic change and well-being" defined by the Ministry of Instruction and University (MIUR)  
 2011 – 2015 CNR co-chair for the participation in the **EIT Digital initiative, Action Line "Health and well-being", today called "Digital Health"**  
 2013 – Scientific Advisor of n. 11 Assegni di Ricerca Professionalizzanti for the Institute of Informatics and telematics

**ADDITIONAL INFORMATION**

## Relevant Publications

**Indici Bibliometrici**

Google Scholar  
 (Febbraio 2022)  
 o Citazioni: 1569; h-index=18; i10-index: 29  
 Scopus (Febbraio 2022)  
 o Citazioni=850; h-index=14

**Identificativi**

**Google Scholar ID:**  
<https://scholar.google.it/citations?user=fiw73vIAAAAJ&it>  
**Scopus Author ID:** 14218855800

