

Cinzia Mambretti



Esperienza Lavorativa

1999 – in corso

Ingegnere Informatico Libero professionista

Cmb2000

Iscritta all'ordine degli ingegneri di Milano 21472

Consulente specializzata in soluzioni ICT digitali altamente innovative – transizione digitale – Internet of Things (IoT)

Referenze: Hellma Italia Srl, Intre Srl, MPO & Partners Srl, Make It App Srl, Sedas Srl, Socrate Medical Srl, Sincronis Srl, Beta 80 Group

2013 – in corso

Innovation Project – Senior Project Manager

Fondazione Politecnico di Milano

Gestione del ciclo di vita del progetto, dall'idea al prodotto, incluso le fasi di definizione degli obiettivi, pianificazione delle risorse, definizione della struttura di progetto (work packages, milestones, deliverables), gestione operativa e organizzativa (meeting, reports e monitoraggio delle attività, delle spese e revisioni)

2019 – in corso

Esperto Indipendente

Eureka – Eurostar

Valutazione ex ante di progetti a valere sui bandi Eurostar (Call 2, Call 3), Denmark Fund e Iris Cyprus Programme

2015 – 2020

Esperto Indipendente

European Commission: Research Executive Agency – CNECT

- Valutazione ex ante di progetti a valere sulle call: H2020-ICT-2015; H2020-ICT-2017-1; H2020-ICT-46-2020; H2020-DT-12-2020 -Topic Robotics
- Valutazione ex ante di progetti a valere sulla call: H2020-EIC-FTI-2018-2020
- Valutazione in itinere: H2020/LEIT

2016 – Present

Docenze a contratto

MIP - Politecnico di Milano – Graduate School of Business

Progetti ICT Innovativi – Casi studio

2011-2012

Sviluppatore Software

Intrè S.r.l.

Sviluppo di una piattaforma, Social Community platform, Web 2.0, Open source basata su Cloudfoundry

2004-2011

COO

Socrate Medical S.r.l.

2001-2008

Tutor

Politecnico di Milano - Dipartimento di Elettronica, Informazione e Bioingegneria (DEIB)

Assistenza a tutoraggio in laboratorio ai corsi di elettrotecnica al Politecnico di Milano, facoltà di ingegneria

ISTRUZIONE E FORMAZIONE

1993 – 1999

Laurea Vecchio ordinamento Ingegneria Informatica

22/12/1999, Politecnico di Milano, 86/100

Progetti del corso di studi universitario

1998 Robotica

- Progettazione e sviluppo di un robot mobile per la navigazione in ambiente non strutturato con sensori sonar

1998 Intelligenza Artificiale

- Sviluppo software di un controllore PID basato su Fuzzy Logic

1998 Robotica

- Progettazione e sviluppo di un robot mobile "atleta" al campionato mondiale di calcio per robot a Parigi Robocup98
- Progettazione e sviluppo dell'hardware: scheda di interfaccia
- Progettazione e sviluppo del software: controllore basato su sistema a regole

1999 Tesi di Laurea

Politecnico di Milano: Tesi sperimentale in Robotica e Intelligenza Artificiale

- Progettazione e sviluppo hardware & software: Fuzzy Logic Control system del Mobile Robot
- Progettazione scheda di interfaccia: Motorola 68HC11 fuzzy microprocessor & assembly software control

Altri corsi e aggiornamento professionale

Dal 2000

Project & Innovation Management & Soft Skills

- Software Processes and Agile Practices
- Project Management beyond planning and control
- Webinar - Advancing AI regulation through Standardisation
- Introduction to Industrial Design
- IDEA Innovation Dream Engineering Award
- Co-creation as a method to bring RRI in the project - Knowledge exchange about project best practices
- Cybersecurity Awareness
- Personalised medicine approaches to Active and Healthy Living and Ageing. From care to prevention, to happy living – Workshop organizzato dal Gruppo tematico Health Innovation

di ENRICH GLOBAL

- English for Effective Business Speaking
- High-Impact Business Writing
- Conflict Management
- Working in multidisciplinary teams
- CONVEGNO INTELLIGENZA ARTIFICIALE E RESPONSABILITÀ DELL'INGEGNERE. LA COMPETENZA ETICA QUALE SOFT SKILL
- PREVENZIONE E GESTIONE DEL CONFLITTO: ESPERIENZE PRATICHE
- GLI STRUMENTI DELLA PARTECIPAZIONE: UN CONFRONTO CON I PROFESSIONISTI

Programma Europeo Horizon Europe / Horizon 2020

- Horizon Europe: Quick guide to tackle gender dimension and cross-cutting issues - Expert Insights
- How to disseminate successfully EU-funded project results - Expert Insights
- Exploitation & R&D results

Altri

Financial Markets

INFORMAZIONI PERSONALI

Madrelingua Italiana

Altre Lingue Inglese (avanzato)
Francese (base)

Capacità e competenze tecniche Visionaria ed entusiasta promotrice dell'innovazione. Particolarmente portata per la soluzione di problemi complessi mantenendo la stretta aderenza ai requisiti fondamentali. Interessata alle nuove tecnologie e soluzioni. Settori di interesse:
* e-health: nuove tecnologie per la prevenzione e la diagnosi
* e-government: internet of things opportunità e soluzioni per i cittadini

Aree di esperienza: Telemedicina, Internet of Things, Software Development, Project Management, Requirements Analysis, Software Engineering, Web Applications, Robotics, Programming, R&D, Problem Solving, Software Design

Applicazione e rispetto della ricerca e innovazione responsabile e attenta alla scienza aperta

INFORMAZIONI AGGIUNTIVE

Pubblicazioni **Digital Health Technology for Better Aging**
Springer Nature Switzerland AG 2021 · Jan 7, 2021
Authors: Giuseppe Andreoni, Cinzia Mambretti
Lingua Inglese

This book describes the multidisciplinary approach needed to tackle better aging. Aging populations are one of the 21st century's biggest challenges. National health systems are forced to adapt in order to provide adequate and affordable care. Innovation, driven by digital technology, is a key to improving quality of life and encouraging healthy living. Well-designed technology keeps people empowered, independent, and mobile; however, despite widespread adoption of ICT in day-to-day life, digital health

technologies have yet to catch on. To this end, technology needs to be effective, usable, cheap, and designed to ensure the security of the managed data. In the era of mHealth, mobile technology, and social design, this book describes, in six sections, the collaboration of polytechnic know-how and social science and health sectors in the creation of a system for encouraging people to engage in healthy behavior and achieve a better quality of life.

Journal of Business and Industrial Marketing - The market access of innovation in health care: insights from EC-funded research

<https://www.emerald.com/insight/content/doi/10.1108/JBIM-08-2020-0400/full/html>

Weird Project: E-health service improvement using WiMAX

E-Health Conference 2008 - London September 2008

Authors: Cinzia Mambretti, Fulvio Casali, Antonio Cimmino

Lingua Inglese

Today the major obstacle to massive deployment of telemedicine applications are the security issues related to the exchange of real time information between different elements that are not at fixed locations. WiMAX, the new standard for wireless communications, is one of the most promising technologies for broadband access in a fixed and mobile environment and it is expected to overcome the above mentioned obstacle. The FP6-WEIRD [1] (WiMax Extension to Isolated Remote Data networks) project has: analysed how this technology can guarantee secure real time data transmission between mobile elements, built some successful demonstrations and paved the way to future commercial applications. This paper in particular describes: main promising e-health applications that WiMax would enable; the technological highlights and the main challenges that WiMax has to face in e-health applications such as accounting, privacy, security, data integrity; the way in which the WEIRD project 0 has studied the wireless access to medical communities and equipment in remote or impervious areas. 0 0; some envisaged implementations.

E-health Broadband Drivers for WiMAX Extension to Isolated Research Networks

BBEurope 2007 Bruxelles December 2007

Authors: Cinzia Mambretti, Antonio Cimmino, Rita Spada, P.M. Neves

Lingua Inglese

WiMAX, the new standard for wireless communications, is one of the main promising technologies for broadband access in a fixed and mobile environment. This paper describes the objectives and main challenges for E_Health applications of FP6-WEIRD (WiMAX Extension to Isolated Research Data networks) project, which aims at designing, prototyping and validating a Next Generation Network (NGN) and control infrastructure in order to allow, through WiMAX radio links, wireless access to medical communities and equipment in remote or impervious areas.

WEIRD – Real Use Cases and Applications for the WiMAX Technology

2° IEEE BWA Workshop

Authors: Cinzia Mambretti, Silvano Mignanti, Pedro Miguel Neves, Vincenzo Augusti, Giuseppe Martufi, Fausto Andreotti

Lingua Inglese

IEEE 802.16/WiMAX is one of the most promising technologies for Broadband Wireless Access, both for fixed and mobile use. This paper presents results of testbeds about novel applications running on top of a WiMAX based end-to-end architecture. The scenarios include monitoring of impervious areas, tele-medicine and tele-hospitalization, all developed in the framework of the European project WEIRD

Doppler indices are biased by vessel curvature: perspectives for clinical implementation of corrective algorithms

17th World Congress on Ultrasound in Obstetrics and Gynecology – October 2007

Authors: Cinzia Mambretti, Pietro Gaglioti, Tullia Todros, Caterina Guiot, Sonia Balbis, Antonio Cardone.

Lingua Inglese

Numerical programs and in vitro experiments have shown that the blood vessels curvature significantly affects the results of Doppler investigations. The bias, which sometimes causes remarkable percentage variations, is mainly due to the contribution of the non axial velocity components, caused by the centrifugal force acting on the fluid, to the Doppler signal. In clinical practice, in particular in the field of obstetrics, some threshold values for the Doppler indices AVB, PI and RI are defined, based on measurements performed in straight vessels, whose value address the clinical management. However,

in the case of curved vessels, such threshold values may be unreliable. The relevance of this problem was investigated also in vivo by measurements on the umbilical vessels surrounding the foetal bladder. Ten patients undergoing routine third trimester scan, with normal foetal growth, were selected and the perivesical segment (PVC) of the umbilical arteries (UA) was investigated for an average time of 15 min, allowing for a complete filling and a subsequent emptying of the fetal bladder. Measurements at different curvature radii (R), corresponding to various filling phases of the bladder, and for different correction angles of insonation were taken and, for each patient, one to three measurements of PI and A/B were obtained. Results show that the Doppler indices values are different when the curvature of the UA changes in the PVC site, and possibly also in other sites. A corrective algorithm, able to evaluate the error done in different measurement conditions (radius of the vessel, radius of curvature, insonation angle) has been developed in the Laboratory of Medical Physics at University of Torino. An effort to implement such an algorithm in clinical echo Doppler equipments, aiming at directly monitoring the curvature influence on the Doppler measurements and correcting the final results, is currently pursued in cooperation with Socrate Medical srl.

X-REPORT BREAST: IT TOOLS TO EARLY DETECT BREAST CANCER THROUGH OPTICAL IMAGING

Biodevices 2012 February 1, 2012

Authors: Cinzia Mambretti, Silvia Bellini

Lingua Inglese

Breast cancer is the second leading cause of cancer deaths in women today; according to the American Cancer Society, about 1.3 million women will be diagnosed with breast cancer annually worldwide and about 465,000 will die from this disease. In the western world, its incidence in females in premenopausal status results similar or superior to the incidence in females in postmenopausal status. Therefore, it is imperative to identify diagnostic tools able to detect breast cancer in young women from the very early stages. This paper presents an IT application developed to support Medical Doctors in diagnosing and reporting with an innovative non-radiating, non-invasive optically-based breast cancer detection system, suitable for scanning of young women. This system - ComfortScan - relies on a methodology - DOBI, Dynamic Optical Breast Imaging - based upon the use of a red monochromatic light beam and able to identify neoangiogenetic areas related to the onset of cancer. The application - X-Report Breast - interprets the images captured by ComfortScan and provides automatic reporting and diagnosis. X-Report Breast proves to be highly valuable in supporting the early diagnosis of breast cancers with ComfortScan, increasing the survival probability and diminishing the invasive surgical impacts

Progetti

2022 – In corso

WMRC – Wearably Monitoring Cardiovascular Risk

Project Manager - Leveraging ICT solutions for preventive strategies in aging population in Latin American and the Caribbean

2022 – 2023

Project funded by Multilateral Investment Fund (IDB LAB) for Latin America and Caribbean

PILLS - Prevenzione Integrata neLLo Stile di vita individuale

Project Manager – Progetto cofinanziato da Regione Lombardia bando Tech Fast

2022 – 2022

HIES – Innovative Health Ecosystem

Project Manager – Progetto cofinanziato da Meditech Competence Center Bando1-2020

2021 – 2022

SENTINEL - SENSing Territorial NETwork of HealTh PODs

Project Manager – INNO4Covid-19 H2020 Funded Project

2017 – 2021

NESTORE: Novel Empowering Solutions and Technologies for Older people to Retain Everyday life activities

Project Manager – H2020 Funded Project - SC1-PM-15-2017 - Personalised Medicine

2020 - 2021

I-Care 3.0

Project Manager Progetto cofinanziato da Regione Lombardia

2019

- **Keelcrab the Drone for an automated hull cleaning: fast & essential**

2016

- **HIPPJ - High-performance Independent Platform for low-cost big data ProJects**

- **Inventia Solution Development Market Penetration**

2015

- **EpiHelmets - Clinical validation of a mobile EEG medical device for diagnosis and remote monitoring in epileptic patients**

2015-2016	<ul style="list-style-type: none"> • NEWMOON – Smart Garments in Newborns and Babies Monitoring Progetti cofinanziati sul bando H2020 SMe dedicated instrument.
2013-2015	<ul style="list-style-type: none"> • Fast Breast Check • DeHCA Light&Sound/Breast – Prototipizzazione e Ingegnerizzazione di un dispositivo per l'identificazione precoce del tumore alla mammella Project Manager progetti cofinanziati da Regione Lombardia
2013-2015	<p>Giocosco -GIOchi pediatrici per la COmunicazione e la SOcializzazione Project Manager Progetto cofinanziato da Regione Lombardia bando "Smart Cities and Communities".</p>
2012	<p>TORCIA – PiaTtafORma di gestione CollaborativA delle emergenze Project Manager Progetto cofinanziato da Regione Lombardia-MIUR.</p>
2009-2011	<p>ITSociety Una piattaforma per la creazione di web-services aperti e sociali Sviluppatore software Progetto Cofinanziato da Regione Lombardia</p>
2010-2011	<p>ISISEMD Intelligent System for Independent living and SELFcare of seniors with cognitive problems or Mild Dementia European commission funded project FP7</p>
2006-2008	<p>N.E.S.S. - WELL NuovE soluzioni per la Security e la Safety per il settore del WELLness Project Manager Progetto cofinanziato da Regione Lombardia, programma DRIADE, azione DAFNE</p> <p>WEIRD WiMax Extension to Isolated Research Data Networks European commission funded project: Project manager in charge for Socrate Medical. WiMax Telemedicine application developed</p>

Firmato digitalmente da: Mambretti Cinzia
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 Data di attivazione: 01/01/2010, Sezione A,
 Organizzazione: Ordine degli Ingegneri della Provincia di Milano
 Luogo: Milano
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